

NF VALIDATION
Validation of alternative analytical methods
Application in food microbiology

Summary report (37°C)

Validation study according to the ISO 16140-2

GENE-UP® *Salmonella* method

(Certificate number: BIO 12/38-06/16)

for the detection of *Salmonella* spp. in a broad range of foods, pet food, production environmental samples and in primary production samples (excluding drinking water)

Qualitative method

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This report consists of 317 pages, including 9 appendices.

Only copies including the totality of this report are authorised.

Competencies of the laboratory are certified by COFRAC accreditation for the analyses marked with the symbol♦.

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LIST OF ABBREVIATIONS

Method & protocol

CFU	Colony Forming Units
ILS	Interlaboratory Study
MCS	Method Comparison Study
Pw	Pre-warmed
RLOD	Relative Level of Detection
w/	with
w/o	without

Interpretation

AL	Acceptability Limit
alt	Alternative method
$\bar{D}$	Average difference
FN	False Negative results
FNR	False Negative Ratio
FP	False Positive results
FPR	False Positive Ratio
LOD	Limit of Detection
NA	Negative agreement
NA _{FN (alt)}	Negative Agreement due to false negative alternative-method results
ND	Negative Deviation
ND _{FN (alt)}	Negative Deviation due to false negative alternative-method results
PA	Positive Agreement
PA _{FP (alt)}	Positive Agreement due to false positive alternative-method results
PD	Positive deviation
PD _{FP (alt)}	Positive Deviation due to false positive alternative-method results
ref	Reference method
RT	Relative Trueness
SE	Relative Sensitivity
SP	Relative Specificity
TNA	Total Negative Agreement
TND	Total Negative Deviation

Raw data

-	No typical colonies but presence of background microflora
-A	No typical colonies but presence of high level of background microflora
-B	No typical colonies but presence of medium level of background microflora
-C	No typical colonies but presence of low level of background microflora
(x)	Number of colonies in the plate
*	Dilution of the extract in case of inhibition according to the alternative protocol (1/3)
1/2	50% level of target analyte
d	Doubtful result
i	Inhibition
ne	New DNA extraction
NC	Non-characteristic colony
NI	No identification
ni	Not isolated colony
m	Minority level of target analyte
M	Majority level of target analyte
p	Pure culture level of target analyte
st	Plate without any colony
w	Weak reaction
Bold typing	artificially inoculated samples

Quality assurance documents related to this study can be consulted upon request from **bioMérieux**.

The technical protocol and the result interpretation were carried out according to the ISO 16140-2 (2016), ISO 16140-2/A1 (2024) and the AFNOR technical rules (Revision 12).

Validation protocols	- ISO 16140-1 (2016): Microbiology of the food chain - Method validation — <i>Part 1: Vocabulary</i> - ISO 16140-2 (2016) & ISO 16140-2/A1 (2024): Microbiology of the food chain - Method validation — <i>Part 2: Protocol for the validation of alternative (proprietary) methods against a reference method</i> - AFNOR technical rules (Revision 12).
Reference methods[♦]	- EN ISO 6579-1 (February 2017): Microbiology of food and animal feeding stuffs - Horizontal method for the detection, enumeration and serotyping of <i>Salmonella</i> spp. - Part 1: detection of <i>Salmonella</i> spp. - ISO 6579-1/A1 (March 2020): Microbiology of the food chain - Horizontal method for the detection, enumeration and serotyping of <i>Salmonella</i> spp. - Part 1: detection of <i>Salmonella</i> spp. Amendment 1: Broader range of incubation temperatures, amendment to the status of Annex D, and correction of the composition of MSRV and SC
Alternative method	GENE-UP® <i>Salmonella</i>
Scope	> Broad range of foods > Pet food > Production environmental samples > Primary production samples (<i>excluding drinking water</i>)
Certification organism	AFNOR Certification (http://nf-validation.afnor.org/)

♦ Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

1 INTRODUCTION

The GENE-UP® *Salmonella* (GENE-UP SLM) method was validated in June 2016 (Certificate number: BIO 12/38 - 06/16) according to EN ISO 16140-2:2016. A summary of the different studies is given in Table 1.

This report contains protocols and results from the initial validation and extensions using 37°C incubation temperature. The results from the initial validation and extensions using 41.5°C incubation temperature are available in an independant report.

Table 1 - Summary of the initial and extension/renewal studies

	Date	Categories	Incubation temperature	Version of ISO 6579
Initial validation study	June 2016	☒ Ready-to-eat and ready-to-reheat ☒ Meat products ☒ Raw meats (<i>except poultry</i>) (25 g sample size) - Short protocol	41.5 ± 1°C	ISO 6579 (2002)
Extension No 1	September 2016	☒ Dairy products (<i>except raw milk-based products</i>) ☒ Vegetables, fruits and seafood ☒ Ingredients and specific products ☒ Raw meats (<i>except poultry</i>) (375 g sample size)	41.5 ± 1°C	ISO 6579 (2002)
Change N° 1	February 2017	☒ Routine software version 1.1.2 (minor modifications)	-	/
Extension No 2	March 2017	☒ Ready-to-eat and ready-to-reheat ☒ Meat products ☒ Dairy products ☒ Vegetables (<i>except sprouts</i>), fruits and seafood ☒ Ingredients and specific products ☒ Production environmental samples	37 ± 1°C	ISO 6579 (2002)
Change N° 2	July 2017	☒ Routine software version 2.0	-	/
Extension No 3	November 2017	☒ Cocoa and chocolates (375 g sample size) ☒ Milk powders and infant formula with and without probiotics (375 g sample size)	37 ± 1°C	ISO 6579-1 (2017)
Extension No 4	January 2018	☒ Production environmental samples	41.5 ± 1°C	ISO 6579-1 (2017)
		☒ Pet food (25 g sample size) ☒ Pet food (375 g sample size)	37 ± 1°C ⁽¹⁾	ISO 6579-1 (2017)

	Date	Categories	Incubation temperature	Version of ISO 6579
Extension No 5	October 2018	☒ Milk powders, infant formula and infant cereals without probiotics including ingredients (25 g sample size), ☒ Infant formula and infant cereals with probiotics (25 g sample size), ☒ Milk powders, infant formula and infant cereals with or without probiotics including ingredients (excluding whey protein concentrates) (375 g sample size)	37 ± 1°C	ISO 6579-1 (2017)
Extension No 6 for a new format of the kit (Unit-Dose) reference 423105 associated with software version 3.0	December 2018	☒ Broad range of food ☒ Production environmental samples	41.5 ± 1°C	ISO 6579-1 (2017)
		☒ Broad range of food ☒ Pet food ☒ Production environmental samples	37 ± 1°C	ISO 6579-1 (2017)
Extension No 7	November 2019	☒ Milk powders (375 g)	37 ± 1°C	ISO 6579-1 (2017)
Renewal study	May 2020	☒ Broad range of food ☒ Production environmental samples	41.5 ± 1°C	ISO 6579-1 (2017)
		☒ Broad range of food ☒ Pet food ☒ Production environmental samples	37 ± 1°C	ISO 6579-1 (2017)
Extension No 8	December 2020	☒ Primary production samples	37 ± 1°C	ISO 6579-1 (2017) ISO 6579-1/A1
Extension No 9	October 2023	☒ Milk powders, infant formula and infant cereals with and without probiotics, early life nutrition (ELN) (375 g test portion size)	37 ± 1°C	ISO 6579-1 (2017) ISO 6579-1/A1
Extension No 11	October 2023	☒ Raw material for chocolate industry (375 g test portion size)	37 ± 1°C	ISO 6579-1 (2017) ISO 6579-1/A1
Extension No 10	December 2023	☒ Chocolates and confectionaries (375 g test portion size) ☒ Ingredients (375 g test portion size)	37 ± 1°C	ISO 6579-1 (2017) ISO 6579-1/A1
Extension No 13	February 2024	☒ Infant formula products: milk powders, infant formula and infant cereals with and without probiotics, early life nutrition (ELN) - Category tested with BACTVIAB PMAx) (375 g test portion size)	37 ± 1°C	ISO 6579-1 (2017) ISO 6579-1/A1

	Date	Categories	Incubation temperature	Version of ISO 6579
Extension No12	April 2024	☒ Pet food for cat and dog (375 g test portion)	37 ± 1°C	ISO 6579-1 (2017) ISO 6579-1/A1
Renewal study	June 2024	☒ Broad range of food ☒ Production environmental samples	41.5 ± 1°C	ISO 6579-1 (2017)
		☒ Broad range of food ☒ Pet food ☒ Production environmental samples	37 ± 1°C	ISO 6579-1 (2017)
Extension n°14	October 2024	☒ For the use of BACTVIAB PMAxx for production environmental samples category (based on internal data)	37°C	/
Extension n° 15	July 2025	☒ Extension to increase the scope of category 18 to the finished product from the chocolate industry ☒ Update of the interpretations according to ISO 16140-2/A1	37°C	ISO 6579-1 (2017) & ISO 6579-1/A1 (2020)

2 METHOD PROTOCOLS

2.1 Alternative method

2.1.1 Principle

The GENE-UP *Salmonella* kit is used with compatible PCR strip tubes in the GENE-UP thermocycler.

The GENE-UP *Salmonella* detection kit reference 423105 is based on the real time Polymerase Chain reaction (PCR) principle.
Each reaction vial contains all the necessary components for PCR, including sample-specific primers and probes, and an internal amplification control.

The GENE-UP thermocycler (Ref: 414056) detects fluorescence at several wavelengths to allow for multi-target detections in the same reaction vessel. The fluorescent signal from a sample is recorded in channel 640, while the signal for the internal amplification control is recorded in channel 705. The software GENE-UP routine automatically interprets the results.

Both the assay for the sample and the internal control use dual Fluorescence Resonance Energy Transfer (FRET) hybridization probes.

The resulting fluorescent signal from the FRET interaction provides a real-time amplification curve.

After amplification fluorescence detection is complete, the GENE-UP instrument can perform a melt by increasing the temperature such that the sample DNA strands begin to melt. As the DNA strands melt, the observed fluorescence of the target DNA decreases at a rate that is characteristic for a particular DNA sequence, such that genotyping can occur. Melt peaks are generated by taking the negative derivative of fluorescence against temperature.

At the end of the PCR program, the PCR products are melted to determine the presence of the DNA target. The software uses the melt peak to conclude to a positive or to a negative result.

Software versions from 1.0 to 2.0 were used to provide the data from the initial validation until the extension study No 5.

The routine software version 3.0. was used to provide the data for the extension study No 6, 7 and 8; version 3.2 was used for the extension studies No 9, 10, 11, 12, 13, 14 and 15.

2.1.2 PCR results decision

> PCR result determination with software version V1

The PCR call is based on the presence of a melting peak (giving a melting temperature, TM), and an amplification curve (giving a crossing point, CP). The target is positive when a TM is determined, whatever the CP (value, and presence/absence). When TM is not detected, the target is positive only when the combination of the CP and the fluorescence level is higher than defined values. These values are frozen in the algorithm with no possibilities for users to be modified.

> PCR result determination with software version V2

The following changes were implemented in the software version 2.0:

- Addition of a range of TM for the sample,
- Addition of a range of TM for the internal amplification control,
- Optimization of the level of fluorescence to declare a sample positive,
- No more display of CP and TM values when the measured TM is outside of the expected range.

The target is determined positive when the TM is within the expected range regardless of the CP (value, and presence/absence) On the other hand, when no TM is detected or TM is below the threshold of fluorescence or TM is outside of the expected range, the target is called negative.

No change occurred in the interpretation since version 2.0.

> PCR result determination with software version V3.2

The PCR results interpretation is performed with software 3.2. The PCR call is based on the presence of a melting peak (giving a melting temperature, T_M).

The target is determined positive when the T_M is within the expected range regardless of the CP (value, and presence/absence) On the other hand, when no T_M is detected or T_M is below the threshold of fluorescence or T_M is outside of the expected range, the target is called negative.

2.1.3 Protocol

All the available enrichment protocols for an incubation at $37 \pm 1^\circ\text{C}$ or at $34\text{-}38^\circ\text{C}$ are listed in Table 2. The detailed protocols are provided in **Appendix 1**.

Table 2 – Available protocols and associated categories (incubation temperature at 37°C or 34-38°C)

Protocol	Categories / types		Test portion size	Dilution	Enrichment broth	Incubation time	Incubation temperature
Standard	1-2-3-4-5-6-7-13	Broad range of foods (excluding sprouts), pet food, production environmental samples	Up to 25 g	1/10	BPW	18 – 26 h	34 - 38 °C or 41.5 ± 1°C
ISO 6579 Enrichment broth	10-12-15-19-20-21	Cocoa and chocolate products, pet food, milk powders, infant formula and infant cereals, chocolate and confectionaries ingredients, pet food and pet food for cat and dog	Up to 375 g	1/10	Specific protocols described in ISO 6887 and ISO 6579-1 w/wo BACTVIAB PMAxx (for categories 19, 20 and 21)	22 – 30 h (Cocoa, chocolates and confectionaries) 20 - 28 h (all pet food products, milk powder and infant formula and cereals, ingredients)	34 - 38°C
Specific ④	10	Cocoa and chocolates Milk powders, infant formula and infant cereals with or without probiotics including ingredients (excluding whey protein concentrates)	Up to 375 g	1/10	Pre-warmed BPW	20 - 28 h	34 - 38°C
Specific ⑤	11	Milk powders, infant formula with or without probiotics	Up to 375 g	1/4	Pre-warmed BPW + Novobiocin (10 mg/l)	20 - 28 h	37 ± 1°C
Specific ⑥	12	Pet food	Up to 375 g	1/6	Pre-warmed BPW	20 - 28 h	37 ± 1°C or 41.5 ± 1°C
Specific ⑦	14	Infant formula and infant cereals with probiotics	Up to 25 g	1/10	BPW + Novobiocin (10 mg/l)	18 - 26 h	37 ± 1°C

Protocol	Categories / types		Test portion size	Dilution	Enrichment broth	Incubation time	Incubation temperature
Specific ⑧	15	Milk powders, infant formula and infant cereals with or without probiotics including ingredients (excluding whey protein concentrate)	Up to 375 g	1/6	Pre-warmed BPW + Novobiocin (10 mg/l)	20 - 28 h	37 ± 1°C
Specific ⑨	16	Primary production samples	Up to 25 g	1/10	Tetrathionate + subculture (0.1 ml in SX2)	18 - 24 h 18 - 24 h	37 ± 1°C 41.5 ± 1°C
Specific ⑩	17	Milk powders, infant formula and infant cereals with or without probiotics, including early life nutrition	Up to 375 g	1/10	Pre-warmed BPW + novobiocin 10 mg/L w/wo BACTVIAB PMAxx	20 - 28 h	37°C ± 1°C
Specific ⑪	18	Raw materials and finish products from chocolate industry	Up to 375 g	1/10	Pre-warmed BPW + 3.5 mL BACTBOOST™	10 - 22 h (using the EGENE-UP EASYPREP solution)	34 - 38°C
Specific ⑫	18	Raw materials and finished products from the chocolate industry	Up to 375 g	1/10	Pre-warmed BPW + 3.5 mL BACTBOOST™	22-30 h (using the GENE-UP lysis kit)	34 - 38°C

Addition of α -amylase for infant cereals (0.1 g/l)

Lysis and PCR steps:

For protocols using the BACTVIAB PMAxx:

- The optional BACTVIAB PMAxx protocol is applied on 20 µL enriched sample. This protocol is applied to remove the free DNA and DNA from dead cells present in the enrichment broth prior the lysis step.
- Lysis step on 20 µL enrichment of PMAxx treated enriched sample using the Bead-beater

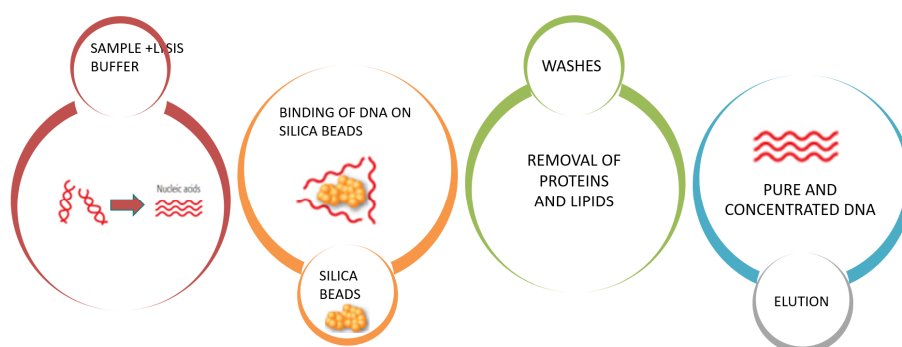
For all protocols except specific ⑪

- Lysis on 20 µL enriched sample using the GENE-UP Lysis kit
For cocoa products, a 1/10 dilution in peptone salt or physiological water (1 mL + 9 mL) is applied before proceeding to the lysis step.
- Real time PCR on 10 µL lysate (from SX2 for primary production samples)

For specific protocol ⑪ using the EGENE-UP® EASYPREP

- Lysis step on 2 mL supernatant using the GENE-UP EASYPREP after centrifugation of 5 mL enriched sample for 30 seconds at 2000 g for **specific protocol ⑪**.

The different steps are illustrated below:



- Centrifugation of 5 mL enriched sample for 30 seconds at 2000 g
- Lysis step on 2 mL supernatant + 2 mL Lysis buffer using the EGENE-UP® EASYPREP
- Addition of 50 µL silica beads for DNA binding
- Washing steps in 2 mL extraction buffers (washing buffer 1 & 2, elution buffer 3)
- Eluate: 100 µL

- Real time PCR on 10 µl lysate (from SX2 for primary production samples)
- **Confirmation:**
 - For all protocols except Specific protocol ⑨:
 - by direct streaking of the primary enrichment broth onto ChromID™ *Salmonella* (SM2), XLD or ASAP or SALMA,
 - In case of no typical colony present on the selective agar plates or negative confirmation using the protocol described above: by running a sub-culture in SX2 broth (6-24 h at 41.5°C) before streaking onto XLD or ASAP or SALMA.
 - For Specific protocol ⑨ (primary production samples):
 - by streaking the SX2 selective enrichment broth onto XLD or ASAP or SALMA, followed by a direct latex test (ASAP or SALMA)

In all cases the typical colonies are tested by GSD F42 or Oxoid *Salmonella* latex test (from SM2 or ASAP or SALMA) or an API gallery directly on characteristic colonies, if well isolated, or by the confirmation tests described in the standardized methods (CEN or ISO).

It is possible to store the enrichment broth except for Pet food (375 g) tested with the specific protocol ⑥ and the lysates for 72 h at 5°C ± 3°C for all samples.

2.1.4 Restrictions

The sprouts are excluded from the scope of the Standard protocol at 37°C.

2.2 Reference methods♦

The current reference methods are:

- The ISO 6579-1 (February 2017) - Microbiology of the food chain - Horizontal method for the detection, enumeration and serotyping of *Salmonella* spp. - Part 1: detection of *Salmonella* spp.
- The ISO 6579-1/A1 (March 2020): Microbiology of the food chain - Horizontal method for the detection, enumeration and serotyping of *Salmonella* spp. - Part 1: detection of *Salmonella* spp. Amendment 1: Broader range of incubation temperatures, amendment to the status of Annex D, and correction of the composition of MSRV and SC.

♦ Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

For the initial validation study as well as the extensions, the samples were prepared according to ISO 6887 parts 1 to 6.

The same test portion sizes were used for the reference method and the GENE-UP SML2 method.

2.3 Study design

This is a paired study design for all protocols with a 1/10 dilution and sample preparation described in ISO 6887.

It is an unpaired study design when the reference method and the alternative method have different enrichment procedures (1/4 or 1/6 dilution or when supplements are added to the enrichment broth such as novobiocin or BACTBOOST™).

The same sampling is applied for the alternative and reference method, even when higher test portion are evaluated.

3 METHOD COMPARISON STUDY

The method comparison study is a study performed by the expert laboratory to compare the alternative method with the reference method.

The study was carried out on a diversity of samples and strains representative of agri-food products. This does not constitute an exhaustive list of the different matrices included in the scope.

For any comment on the alternative method, please contact AFNOR Certification at <http://nf-validation.afnor.org/contact-2/>.

3.1 Sensitivity study

The sensitivity (SE) is the ability of the method to detect the analyte by either the reference or alternative method.

3.1.1 Number and nature of samples

The repartition of positive and negative samples tested per study (samples tested with an incubation temperature of $37 \pm 1^\circ\text{C}$ or $34\text{-}38^\circ\text{C}$) is summarized in Table 3.

**Table 3 – Repartition of positive and negative samples
depending on the extension studies done at 37 ± 1°C or 34 - 38°C**

Extension n°	Categories	Positive results	Negative results	Total
2 (March 2017)	1-2-3-4-5-6-7	241	269	510
3 (November 2017)	10-11	98	93	191
4 (January 2018)	12	36	31	67
5 (October 2018)	13-14-15	130	88	218
7 (November 2019)	15	13	11	24
8 (PPS) (December 2020)	16	32	35	67
9 + 11 + 13 (October 2023 and February 2024)	17-18	64	57	121
10 (December 2023)	19-20	64	61	125
12 (April 2024)	21	32	31	63
15 (July 2025)	18	10	10	20
Total	/	720	686	1406

Considering all the studies, 1406 samples were tested. Note that some samples were tested with several protocols.

Combining all the tests, 1932 results were available including 958 positive and 974 negative results.

The distribution per tested category and type as well as for different combinations of categories and protocols is given in Table 4.

Table 4 – Distribution per tested category, type and protocol

Category		Enrichment protocol		Type		Positive samples	Negative samples	Total
1	Ready to eat and ready to reheat up to 25 g	Standard	Preparation ISO 6887 BPW 1/10, 18h	a	Ready-To-Eat (RTE) foods	9	11	20
				b	Ready-To-Reheat (RTR) foods	12	10	22
				c	Cured and smoked products (no delicatessen)	10	10	20
				Total		31	31	62
2	Meat products up to 25 g	Standard	Preparation ISO 6887 BPW 1/10, 18h	a	Raw meat products (frozen or fresh)	12	21	33
				b	Raw poultry (fresh or frozen)	13	17	30
				c	Raw delicatessen	10	12	22
				Total		35	50	85
3	Dairy products up to 25 g	Standard	Preparation ISO 6887 BPW 1/10, 18h	a	Pasteurized products	11	9	20
				b	Raw products	16	10	26
				c	Ingredients and low moisture products	20	26	46
				Total		47	45	92
4	Vegetables and seafood samples up to 25 g	Standard	Preparation ISO 6887 BPW 1/10, 18h	a	Fish and Seafood	11	13	24
				b	Produce	12	10	22
				c	Fruits & vegetables	11	9	20
				Total		34	32	66
5	Ingredients and specific products up to 25 g	Standard	BPW 1/10, 18h (without ISO 6887 additives)	a	Raw ingredients	10	13	23
				b	Infant formula and cereals with probiotics	12	9	21
				c	Pasteurized eggs and egg powders	11	13	24
				Total		33	35	68
			Preparation / ISO 6887 (with additives) BPW 1/10, 18h	a	Raw ingredients	7	16	23
				b	Infant formula and cereals with probiotics	12	9	21
				c	Pasteurized eggs and egg powders	11	13	24
				Total		30	38	68
6	Pet food up to 25 g	Standard	Preparation ISO 6887 BPW 1/10, 18h	a	Wet pet food	16	17	33
				b	Dry pet food	15	17	32
				Total		31	34	65

Category		Enrichment protocol		Type		Positive samples	Negative samples	Total
7	Environmental samples up to 25 g or mL or surface	Standard	Preparation ISO 6887 & ISO 18593 BPW 1/10, 18h	a	Dusts and Residues	10	10	20
				b	Cleaning and Process Waters	11	13	24
				c	Surface samples	10	18	28
				Total		31	41	72
10	Cocoa and chocolates up to 375 g	④	Pw BPW, 1/10 20h	a	Cocoa powders	17	7	24
				b	Chocolates	8	12	20
				c	Raw materials (Mass, liquor, beans, butter)	8	13	21
				Total		33	32	65
		ISO	Preparation / ISO 6887 Pw UHT milk, 1/10, 22h	a	Cocoa powders	13	10	23
				b	Chocolates	12	8	20
				c	Raw materials (Mass, liquor, beans, butter)	8	13	21
				Total		33	31	64
11	Milk powders up to 375 g	⑤	Pw BPW + novobiocin, 1/4, 20h	a	Milk powders	12	10	22
				b	Infant formula without probiotics	10	10	20
				c	Infant formula with probiotics	10	10	20
				Total		32	30	62
12	Pet food up to 375 g	⑥	Pw BPW, 1/6, 20h	a	Wet pet food	16	15	31
				b	Dry pet food	15	15	30
				Total		31	30	61
		ISO	Preparation / ISO 6887 Pw BPW, 1/10, 20h	a	Wet pet food	16	15	31
				b	Dry pet food	17	16	33
				Total		33	31	64
13	Milk powders, infant formula and infant cereals without probiotics including ingredients up to 25 g	Standard	Preparation ISO 6887 BPW 1/10, 18h	a	Milk powders, infant formula	10	10	20
				b	Infant cereals	11	10	21
				c	Ingredients: whey, maltodextrin	10	10	20
				Total		31	30	61
14	Infant formula and infant cereals with probiotics up to 25 g	⑦ 18 h	BPW + novobiocin 10 mg/L, 1/10, 18h	a	Infant formula	17	15	32
				b	Infant cereals	16	15	31
				Total		33	30	63

Category		Enrichment protocol		Type		Positive samples	Negative samples	Total
15	Milk powders, infant formula and infant cereals with or without probiotics including ingredients (excluding whey protein concentrates) up to 375 g	⑧ 20 h	Pw BPW + novobiocin 10 mg/L, 1/6, 20h	a	Milk powders, infant formula and infant cereals without probiotics	17	15	32
				b	Infant formula and infant cereals with probiotics with	15	17	32
		ISO	Preparation / ISO 6887 Pw BPW, 1/10, 20h	c1	Ingredients (maltodextrin, whey, lactose, starch, caseinate...)	34	50	84
				c2	Milk powders	13	11	24
				Total		79	93	172
16	Primary production samples up to 25g	⑨ 18 h	Tetrathionate + subculture SX2, 1/10, 18h	a	Feces	19	16	35
				b	Non feces	13	19	32
				Total		32	35	67
17	Milk powders, infant formula and infant cereals with or without probiotics, including early life nutrition up to 375 g	⑩	Pw BPW + novobiocin 10 mg/L, 1/10, 20h	a	Milk powder, infant formula and infant cereals without probiotics	11	9	20
				b	Infant formula and infant cereals with probiotics	11	10	21
				c	Early life nutrition	10	10	20
				Total		32	29	61
			Pw BPW + novobiocin 10 mg/L, 1/10, 20h w/ PMAxx	a	Milk powder, infant formula and infant cereals without probiotics	11	9	20
				b	Infant formula and infant cereals with probiotics	11	10	21
				c	Early life nutrition	10	10	20
				Total		32	29	61
18	Raw materials and finished products from the chocolate industry up to 375 g	⑪	Pw BPW + BACTBOOST, 1/10, 10h EGENE-UP EASY PREP	a	Coca based raw material	11	9	20
				b	Milk based products	10	10	20
				c	Other ingredients	10	10	20
				d	Finished products (e.g. chocolate bars and confectioneries with fillings)	10	10	20
				Total		41	39	80
			Pw BPW + BACTBOOST, 1/10, 22h EGENE-UP EASY PREP	a	Coca based raw material	12	8	20
				b	Milk based products	10	10	20
				c	Other ingredients	10	10	20
				d	Finished products (e.g. chocolate bars and confectioneries with fillings)	10	10	20
				Total		42	38	80
		⑫ 22 h GENE-UP Lysis kit	Pw BPW + BACTBOOST, 1/10, 22h	a	Coca based raw material	12	8	20
				b	Milk based products	10	10	20
				c	Other ingredients	10	10	20
				d	Finished products (e.g. chocolate bars and confectioneries with fillings)	10	10	20
				Total		42	38	80

Category		Enrichment protocol		Type		Positive samples	Negative samples	Total
19	Chocolate and confectionaries up to 375 g	ISO	Preparation / ISO 6887 Pw BPW, 1/10, 22h	a	Raw material	10	10	20
				b	Chocolate finished products	11	9	20
				c	Confectionaries	10	10	20
				Total		31	29	60
			Preparation / ISO 6887 Pw BPW 1/10, 22h w/ PMAxx	a	Raw material	10	10	20
				b	Chocolate finished products	11	9	20
				c	Confectionaries	10	10	20
				Total		31	29	60
20	Ingredients up to 375 g	ISO	Preparation /ISO 6887 Pw BPW, 1/10, 20h	a	Egg based products	11	9	20
				b	Milk based products	11	10	21
				c	Other ingredients	11	13	24
				Total		33	32	65
			Preparation / ISO 6887 Pw BPW 1/10, 20h w/ PMAxx	a	Egg based products	11	9	20
				b	Milk based products	11	10	21
				c	Other ingredients	11	13	24
				Total		33	32	65
21	Pet food for cat and dog up to 375 g	ISO	Preparation / ISO 6887 Pw BPW 1/10, 20h w/ and w/o PMAxx	a	Raw material	10	13	23
				b	Wet pet food	10	10	20
				c	Dry pet food	12	8	20
				Total		32	31	63
All categories and protocols						958	974	1932

3.1.2 Artificial contamination of samples

The artificial contaminations applied for all the samples tested with an incubation temperature at 37°C are presented in **Erreur ! Source du renvoi introuvable..**

Among the positive results, 720 samples were artificially contaminated and 32 naturally contaminated. The repartition of the positive samples per inoculation protocol and inoculation level is given in Table 5.

Table 5 - All samples

	Inoculation protocol					Naturally contaminated	Total
	Spiking (CFU/sample)		Seeding (CFU/sample)				
	≤ 5 CFU	5<x≤10	≤ 3 CFU	3<x≤10	10<x≤30		
Number of positive samples	130	17	394	144	3	32	720
%	18.0%	2.4%	54.7	20.0%	0.4%	4.4%	100%

A total of 4.4 % of the samples were found naturally contaminated, 72.7 % were inoculated below 3 CFU (seeding protocol) or 5 CFU (spiking protocol), 22.4 % between 3 or 5 and 10 CFU and 0.4 % between 10 and 30 CFU.

The percentage of inoculated samples between 3 or 5 CFU and 10 CFU is higher than the limit fixed in the AFNOR Technical rules but note that a high percentage of the samples inoculated below 3 or 5 CFU gave negative results.

Combining all the studies, 4.4% of the samples were naturally contaminated.

3.1.3 Protocols applied during the validation study

> Incubation times

The following incubation times were applied:

Protocol	Incubation time tested
Standard, ⑦ and ⑨, ISO protocol (ingredients and specific products)	18 h
④, ⑤, ⑥, ⑧, ⑩, ISO protocol (pet food, milk powder, IF, IC, ingredients)	20 h
⑪	10 h and 22 h
⑫, ISO protocol (cocoa, chocolates and confectionaries)	22 h

For the specific protocol ⑨ (PPS), the Tetrathionate was incubated for 18 h at 37°C and the SX2 18 h at 41.5°C.

> *Lysis step*

For all the protocols, the lysis step was performed using the GENE-Lysis kit except for specific protocol ⑪ for which the GENE-UP® EASYPREP was used.

For the specific protocol 10 (category 17) and ISO protocol (categories 19, 20) the lysis step was performed with and without applying the BACTVIAB PMAxx protocol.

For the category 21, the lysis step was performed using the GENE-Lysis kit with applying the BACTVIAB PMAxx protocol prior lysis.

> *Confirmation protocols*

During the validation study, the confirmation tests were run as described in Table 6.

Table 6 - Confirmation protocols

Selective agar plates	Direct streaking (10µL) Positive PCR samples			SX2 (10µL)								
				6 h Positive PCR samples			18 h for PPS Positive PCR samples			24 h Positive PCR samples not confirmed by other protocols and negative PCR samples		
	Streaking	Tests applied on typical colonies		Streaking	Tests applied on typical colonies		Streaking	Tests applied on typical colonies		Streaking	Tests applied on typical colonies	
		Latex test	API		Latex test	API		Latex test	API		Latex test	API
ChromID™ <i>Salmonella</i> (SM2)	X	X	X	/	/	/	/	/	/	/	/	/
XLD	X	/	X	X	/	X (if negative by direct streaking)	X	/	X	X	/	X (if negative by direct streaking)
ASAP	X	X	X	X	X (if negative by direct streaking)	X (if negative by direct streaking)	X	X	X	X	X (if not tested in other cases)	X (if not tested in other cases)
SALMA	X	X	X	X	X (if negative by direct streaking)	X (if negative by direct streaking)	/	/	/	X	X (if not tested in other cases)	X (if not tested in other cases)

The ChromID *Salmonella* was used only for direct streaking from the enrichment broth; the three other selective agar plates (XLD, ASAP, and SALMA) were used for streaking from the primary enrichment broth and SX2.

The SALMA selective agar plate was tested for the extension studies performed in 2023 while it was not the case for the previous validation studies.

Note that the *Salmonella* spp. latex (REF MGNF42) test used during some part of the validation study is no more available and has been replaced by GSD F42. The OXOID *Salmonella* test kit (DR1108A) was used instead during the extension studies to confirm the typical colonies from ChromID™ *Salmonella* (SM2), ASAP and SALMA selective agar plates for the other extension studies. It has been agreed that both GSD F42 or OXOID latex test can be used in replacement of the MICROGENE latex for all categories and protocols.

For samples giving negative PCR results, a subculture in SX2 broth for 24h at 41.5°C was performed before streaking onto XLD, ASAP and SALMA agar plates in order to be in agreement with the ISO 16140-2 requirements.

➤ *Enrichment broth and lysates storage for 72 h at 5°C ± 3°C*

The primary enrichment broths and the lysates from positive and discordant samples were tested after 72 h storage at 5°C ± 3°C.

For the primary production samples, the SX2 broths and the lysates from positive and discordant samples were tested again after 72 h storage at 5°C ± 3°C (PCR and confirmatory tests).

3.1.4 Test results

Raw data for the categories tested are given in **Appendix 4**. The results are given in Table 7 per confirmation protocol and with all the confirmatory tests combined.

Table 7 – Interpretation of sample results between the reference and alternative method (based on the confirmed alternative method result using different confirmation protocols)

Category		Enrichment protocol		Extraction protocol	PA	PD	TND	TNA
1	Ready to eat and ready to reheat up to 25 g	Standard	Preparation ISO 6887 BPW 1/10, 18h	GENE-UP Lysis kit	31	0	0	31
2	Meat products up to 25 g	Standard	Preparation ISO 6887 BPW 1/10, 18h	GENE-UP Lysis kit	34	0	1	50
3	Dairy products up to 25 g	Standard	Preparation ISO 6887 BPW 1/10, 18h	GENE-UP Lysis kit	45	0	2	45
4	Vegetables and seafood samples up to 25 g	Standard	Preparation ISO 6887 BPW 1/10, 18h	GENE-UP Lysis kit	34	0	0	32
5	Ingredients and specific products up to 25 g	Standard	BPW 1/10, 18h (without ISO 6887 additives)	GENE-UP Lysis kit	23	5	5	35
			Preparation ISO 6887 BPW 1/10, 18h	GENE-UP Lysis kit	28	2	0	38
6	Pet food up to 25 g	Standard	Preparation ISO 6887 BPW 1/10, 18h	GENE-UP Lysis kit	31	0	0	34
7	Environmental samples up to 25 g or mL or surface	Standard	Preparation ISO 6887 & ISO 18593 BPW 1/10, 18h	GENE-UP Lysis kit	29	0	2	41
10	Cocoa and chocolates up to 375 g	④	Pw BPW, 1/10 20h	GENE-UP Lysis kit	21	6	6	32
		ISO	preparation / ISO 6887 Pw UHT milk, 1/10, 22h	GENE-UP Lysis kit	32	0	1	31
11	Milk powders, infant formula with or without probiotics up to 375 g	⑤	Pw BPW + novobiocin, 1/4, 20h	GENE-UP Lysis kit	18	9	5	30
12	Pet food up to 375 g	⑥	Pw BPW, 1/6, 20h	GENE-UP Lysis kit	22	3	6	30
		ISO	Preparation / ISO 6887 Pw BPW, 1/10, 20h	GENE-UP Lysis kit	31	0	2	31
13	Milk powders, infant formula and infant cereals without probiotics including ingredients up to 25 g	Standard	Preparation ISO 6887 BPW 1/10, 18h	GENE-UP Lysis kit	31	0	0	30

Category		Enrichment protocol		Extraction protocol	PA	PD	TND	TNA
14	Infant formula and infant cereals with probiotics up to 25 g	⑦ 18 h	BPW + novobiocin 10 mg/L, 1/10, 18h	GENE-UP Lysis kit	28	4	1	30
15	Milk powders, infant formula and infant cereals with or without probiotics including ingredients (excluding whey protein concentrates) up to 375 g	ISO	Preparation / ISO 6887 Pw BPW, 1/10, 20h	GENE-UP Lysis kit	74	4	1	93
16	Primary production samples up to 25g	⑨ 18 h	Tetrathionate + subculture SX2, 1/10, 18h	GENE-UP Lysis kit	11	14	7	35
17	Milk powders, infant formula and infant cereals with or without probiotics, including early life nutrition up to 375 g	⑩	Pw BPW + novobiocin 10 mg/L, 1/10, 20h	GENE-UP Lysis kit	24	6	2	29
			Pw BPW + novobiocin 10 mg/L, 20h	w/ BACTVIAB PMAxx GENE-UP Lysis kit	24	6	2	29
18	Raw material and finished products from the chocolate industry up to 375 g	⑪	Pw BPW + BACTBOOST, 1/10, 10h EGENE-UP EASY PREP	EGENE-UP EASY PREP	24	9	8	39
			Pw BPW + BACTBOOST, 1/10, 22h EGENE-UP EASY PREP	EGENE-UP EASY PREP	24	10	8	38
		⑫ 22 h GENE-UP Lysis kit	Pw BPW + BACTBOOST, 1/10, 22h	GENE-UP Lysis kit	24	10	8	38
19	Chocolate and confectionaries up to 375 g	ISO	Preparation / ISO 6887 Pw BPW, 1/10, 22h	GENE-UP Lysis kit	30	0	1	29
			Preparation / ISO 6887 Pw BPW 1/10, 22h	w/ BACTVIAB PMAxx GENE-UP Lysis kit	30	0	1	29
20	Ingredients 375 g	ISO	Preparation /ISO 6887 Pw BPW, 1/10, 20h	GENE-UP Lysis kit	31	0	2	32
			Preparation / ISO 6887 Pw BPW 1/10, 20h	w/ BACTVIAB PMAxx GENE-UP Lysis kit	31	0	2	32

Category		Enrichment protocol		Extraction protocol	PA	PD	TND	TNA
21	Pet food for cat and dog up to 375 g	ISO	Preparation / ISO 6887 Pw BPW 1/10, 20h	w/ BACTVIAB PMAxx GENE-UP Lysis kit	31	0	1	31
All categories and protocols (mixed)					796	88	74	974

Paired evaluation:

$TND = ND_{FN(alt)}$

$TNA = NA + PD_{FP(alt)}$

Unpaired evaluation:

$TND = ND + ND_{FN(alt)} + PA_{FP(alt)}$

$TNA = NA + NA_{FN(alt)} + PD_{FP(alt)}$

3.1.5 Calculation of relative trueness (RT), sensitivity (SE), false positive ratio (FPR) and false negative ratio (FNR) for the alternative method

The calculations were done taking into account all the confirmatory tests; they are presented in Table 8.

Table 8 – Calculation of relative trueness (RT), sensitivity (SE), false positive ratio (FPR) and false negative ratio (FNR) for the alternative method

Category		Enrichment protocol		Extraction protocol	Type	PA	PA _{FP(alt)}	NA	NA _{FN(alt)}	PD	ND	ND _{FN(alt)}	PD _{FP(alt)}	TND	TNA	SE alt %	SE ref %	RT %	FPR %	FNR	
1	Ready to eat and ready to reheat up to 25 g	Standard	Preparation ISO 6887 BPW 1/10, 18h	GENE-UP Lysis kit	a	Ready-To-Eat (RTE) foods	9		11	0	0		0	0	0	11	100.0	100.0	100.0	0.0	0.000
					b	Ready-To-Reheat (RTR) foods	12		10	0	0		0	0	0	10	100.0	100.0	100.0	0.0	0.000
					c	Cured and smoked products (no delicatessen)	10		10	0	0		0	0	0	10	100.0	100.0	100.0	0.0	0.000
					Total		31		31	0	0		0	0	0	31	100.0	100.0	100.0	0.0	0.000
2	Meat products up to 25 g	Standard	Preparation ISO 6887 BPW 1/10, 18h	GENE-UP Lysis kit	a	Raw meat products (frozen or fresh)	12		21	0	0		0	0	0	21	100.0	100.0	100.0	0.0	0.000
					b	Raw poultry (fresh or frozen)	13		17	0	0		0	0	0	17	100.0	100.0	100.0	0.0	0.000
					c	Raw delicatessen	9		12	0	0		1	0	1	12	90.0	100.0	95.5	0.0	0.100
					Total		34		50	0	0		1	0	1	50	97.1	100.0	98.8	0.0	0.029
3	Dairy products up to 25 g	Standard	Preparation ISO 6887 BPW 1/10, 18h	GENE-UP Lysis kit	a	Pasteurized products	11		9	0	0		0	0	0	9	100.0	100.0	100.0	0.0	0.000
					b	Raw products	14		10	0	0		2	0	2	10	87.5	100.0	92.3	0.0	0.125
					c	Ingredients and low moisture products	20		26	0	0		0	0	0	26	100.0	100.0	100.0	0.0	0.000
					Total		45		45	0	0		2	0	2	45	95.7	100.0	97.8	0.0	0.043
4	Vegetables and seafood samples up to 25 g	Standard	Preparation ISO 6887 BPW 1/10, 18h	GENE-UP Lysis kit	a	Fish and Seafood	11		13	0	0		0	0	0	13	100.0	100.0	100.0	0.0	0.000
					b	Produce	12		10	0	0		0	0	0	10	100.0	100.0	100.0	0.0	0.000
					c	Fruits & vegetables	11		9	0	0		0	0	0	9	100.0	100.0	100.0	0.0	0.000
					Total		34		32	0	0		0	0	0	32	100.0	100.0	100.0	0.0	0.000
5	Ingredients and specific products up to 25 g	Standard	BPW 1/10, 18h (without ISO 6887 additives)	GENE-UP Lysis kit	a	Raw ingredients	2	1	9	2	4	3	0	2	4	13	60.0	60.0	65.2	23.1	0.200
					b	Infant formula and cereals with probiotics	10	0	8	0	1	1	0	1	1	9	91.7	91.7	90.5	11.1	0.000
					c	Pasteurized eggs and egg powders	11		11		0		0	2	0	13	100.0	100.0	100.0	15.4	0.000
					Total		23	1	28	2	5	4	0	5	5	35	84.8	84.8	85.3	17.1	0.061
			Preparation / ISO 6887 (with additives) BPW 1/10, 18h	GENE-UP Lysis kit	a	Raw ingredients	6		14	0	1		0	2	0	16	100.0	85.7	95.7	12.5	0.000
					b	Infant formula and cereals with probiotics	11		8	1	1		0	0	0	9	100.0	91.7	95.0	0.0	0.083
					c	Pasteurized eggs and egg powders	11		12	0	0		0	1	0	13	100.0	100.0	100.0	7.7	0.000
					Total		28		34	1	2		0	3	0	38	100.0	93.3	97.1	7.9	0.033
6	Pet food up to 25 g	Standard	Preparation ISO 6887 BPW 1/10, 18h	GENE-UP Lysis kit	a	Wet pet food	16		16	0	0		0	1	0	17	100.0	100.0	100.0	5.9	0.000
					b	Dry pet food	15		17	0	0		0	0	0	17	100.0	100.0	100.0	0.0	0.000
					Total		31		33	0	0		0	1	0	34	100.0	100.0	100.0	2.9	0.000
7	Environmental samples up to 25 g or mL or surface	Standard	Preparation ISO 6887 & ISO 18593 BPW 1/10, 18h	GENE-UP Lysis kit	a	Dusts and Residues	9		10	0	0		1	0	1	10	90.0	100.0	95.0	0.0	0.100
					b	Cleaning and Process Waters	11		12	0	0		0	1	0	13	100.0	100.0	100.0	7.7	0.000
					c	Surface samples	9		18	0	0		1	0	1	18	90.0	100.0	96.4	0.0	0.100
					Total		29		40	0	0		2	1	2	41	93.5	100.0	97.2	2.4	0.065
10	Cocoa and chocolates up to 375 g	④	Pw BPW, 1/10 20h	GENE-UP Lysis kit	a	Cocoa powders	9	0	7	0	4	4	0	0	4	7	76.5	76.5	66.7	0.0	0.000
					b	Chocolates	6	0	12	0	2	0	0	0	0	12	100.0	75.0	90.0	0.0	0.000
					c	Raw materials (Mass, liquor, beans, butter)	6	0	12	1	0	1	1	0	2	13	75.0	100.0	90.5	0.0	0.250
					Total		21	0	31	1	6	5	1	0	6	32	81.8	81.8	81.5	0.0	0.061
		ISO	preparation / ISO 6887 Pw UHT milk, 1/10, 22h	GENE-UP Lysis kit	a	Cocoa powders	13		10	0	0		0	0	0	10	100.0	100.0	100.0	0.0	0.000
					b	Chocolates	11		8	0	0		1	0	1	8	91.7	100.0	95.0	0.0	0.083
					c	Raw materials (Mass, liquor, beans, butter)	8		12	0	0		0	1	0	13	100.0	100.0	100.0	7.7	0.000
					Total		32		30	0	0		1	1	1	31	97.0	100.0	98.4	3.2	0.030
11	Milk powders, infant formula with or without probiotics up to 375 g	⑤	Pw BPW + novobiocin, 1/4, 20h	GENE-UP Lysis kit	a	Milk powders	3	0	10	0	5	4	0	0	4	10	66.7	58.3	59.1	0.0	0.000
					b	Infant formula without probiotics	7	0	10	0	2	0	1	0	1	10	90.0	80.0	85.0	0.0	0.100
					c	Infant formula with probiotics	8	0	10	0	2	0	0	0	0	10	100.0	80.0	90.0	0.0	0.000
					Total		18	0	30	0	9	4	1	0	5	30	84.4	71.9	77.4	0.0	0.031

Category		Enrichment protocol		Extraction protocol	Type	PA	PA _{FP(alt)}	NA	NA _{FN(alt)}	PD	ND	ND _{FN(alt)}	PD _{FP(alt)}	TND	TNA	SE alt %	SE ref %	RT %	FPR %	FNR
12	Pet food up to 375 g	⑥	Pw BPW, 1/6, 20h	GENE-UP Lysis kit	a Wet pet food	16	0	15	0	0	0	0	0	0	15	100.0	100.0	100.0	0.0	0.000
					b Dry pet food	6	0	14	1	3	6	0	0	6	15	60.0	80.0	70.0	0.0	0.067
					Total	22	0	29	1	3	6	0	0	6	30	80.6	90.3	85.2	0.0	0.032
		ISO	Preparation / ISO 6887 Pw BPW, 1/10, 20h	GENE-UP Lysis kit	a Wet pet food	16	0	15	0	0	0	0	0	0	15	100.0	100.0	100.0	0.0	0.000
					b Dry pet food	15	0	16	0	0	0	2	0	2	16	88.2	100.0	93.9	0.0	0.118
					Total	31		31	0	0		2	0	2	31	93.9	100.0	96.9	0.0	0.061
13	Milk powders, infant formula and infant cereals without probiotics including ingredients up to 25 g	Standard	Preparation ISO 6887 BPW 1/10, 18h	GENE-UP Lysis kit	a Milk powders, infant formula	10		10	0	0		0	0	0	10	100.0	100.0	100.0	0.0	0.000
					b Infant cereals	11		10	0	0		0	0	0	10	100.0	100.0	100.0	0.0	0.000
					c Ingredients: whey, maltodextrin	10		10	0	0		0	0	0	10	100.0	100.0	100.0	0.0	0.000
					Total	31		30	0	0		0	0	0	30	100.0	100.0	100.0	0.0	0.000
14	Infant formula and infant cereals with probiotics up to 25 g	⑦ 18 h	BPW + novobiocin 10 mg/L, 1/10, 18h	GENE-UP Lysis kit	a Infant formula	16	0	15	0	1	0	0	0	0	15	100.0	94.1	96.9	0.0	0.000
					b Infant cereals	12	0	15	0	3	1	0	0	1	15	93.8	81.3	87.1	0.0	0.000
					Total	28	0	30	0	4	1	0	0	1	30	97.0	87.9	92.1	0.0	0.000
15	Milk powders, infant formula and infant cereals with or without probiotics including ingredients (excluding whey protein concentrates) up to 375 g	⑧ 20 h	Pw BPW + novobiocin 10 mg/L, 1/6, 20h	GENE-UP Lysis kit	a Milk powders, infant formula and infant cereals without probiotics	16	0	15	0	1	0	0	0	0	15	100.0	94.1	96.9	0.0	0.000
					b Infant formula and infant cereals with probiotics with	11	0	17	0	3	1	0	0	1	17	93.3	80.0	87.5	0.0	0.000
		ISO	Preparation / ISO 6887 Pw BPW, 1/10, 20h	GENE-UP Lysis kit	c1 Ingredients (maltodextrin, whey, lactose, starch, caseinate...)	34		50	0	0		0	0	0	50	100.0	100.0	100.0	0.0	0.000
					c2 Milk powders	13		11	0	0		0	0	0	11	100.0	100.0	100.0	0.0	0.000
					Total	74	0	93	0	4	1	0	0	1	93	98.7	94.9	97.1	0.0	0.000
16	Primary production samples up to 25g	⑨ 18 h	Tetrathionate + subculture SX2, 1/10, 18h	GENE-UP Lysis kit	a Feces	7	0	16	0	7	5	0	0	5	16	73.7	63.2	65.7	0.0	0.000
					b Non feces	4	0	18	0	7	2	0	1	2	19	84.6	46.2	71.9	5.3	0.000
					Total	11	0	34	0	14	7	0	1	7	35	78.1	56.3	68.7	2.9	0.000
17	Milk powders, infant formula and infant cereals with or without probiotics, including early life nutrition up to 375 g	⑩	Pw BPW + novobiocin 10 mg/L, 1/10, 20h	GENE-UP Lysis kit	a Milk powder, infant formula and infant cereals without probiotics	7	0	9	0	3	1	0	0	1	9	90.9	72.7	80.0	0.0	0.000
					b Infant formula and infant cereals with probiotics	8	0	10	0	2	1	0	0	1	10	90.9	81.8	85.7	0.0	0.000
					c Early life nutrition	9	0	10	0	1	0	0	0	0	10	100.0	90.0	95.0	0.0	0.000
					Total	24	0	29	0	6	2	0	0	2	29	93.8	81.3	86.9	0.0	0.000
			Pw BPW + novobiocin 10 mg/L, 20h	w/ BACTVIAB PMAxx GENE-UP Lysis kit	a Milk powder, infant formula and infant cereals without probiotics	7	0	9	0	3	1	0	0	1	9	90.9	72.7	80.0	0.0	0.000
					b Infant formula and infant cereals with probiotics	8	0	10	0	2	1	0	0	1	10	90.9	81.8	85.7	0.0	0.000
					c Early life nutrition	9	0	10	0	1	0	0	0	0	10	100.0	90.0	95.0	0.0	0.000
					Total	24	0	29	0	6	2	0	0	2	29	93.8	81.3	86.9	0.0	0.000
18	Raw material and finished products from chocolate industry up to 375 g	⑪	Pw BPW + BACTBOOST, 1/10, 10h EGENE-UP EASY PREP	EGENE-UP EASY PREP	a Cocoa based raw material	6	0	9	0	3	2	0	0	2	9	81.8	72.7	75.0	0.0	0.000
					b Milk based products	8	0	10	0	0	2	0	0	2	10	80.0	100.0	90.0	0.0	0.000
					c Other ingredients	7	0	10	0	2	1	0	0	1	10	90.0	80.0	85.0	0.0	0.000
					d Finished products (e.g. Chocolate Bars and Confectioneries with Fillings)	3	0	10	0	4	3	0	0	3	10	70.0	60.0	65.0	0.0	0.000
					Total	24	0	39	0	9	8	0	0	8	39	80.5	78.0	78.8	0.0	0.000
			Pw BPW + BACTBOOST, 1/10, 22h EGENE-UP EASY PREP	EGENE-UP EASY PREP	a Coca based raw material	6	0	8	0	4	2	0	0	2	8	83.3	66.7	70.0	0.0	0.000
					b Milk based products	8	0	10	0	0	2	0	0	2	10	80.0	100.0	90.0	0.0	0.000
					c Other ingredients	7	0	10	0	2	1	0	0	1	10	90.0	80.0	85.0	0.0	0.000
					d Finished products (e.g. Chocolate Bars and Confectioneries with Fillings)	3	0	10	0	4	3	0	0	3	10	70.0	60.0	65.0	0.0	0.000
					Total	24	0	38	0	10	8	0	0	8	38	81.0	76.2	77.5	0.0	0.000
		⑫ 22 h GENE-UP Lysis kit	Pw BPW + BACTBOOST, 1/10, 22h	GENE-UP Lysis kit	a Coca based raw material	6	0	8	0	4	2	0	0	2	8	83.3	66.7	70.0	0.0	0.000
					b Milk based products	8	0	10	0	0	2	0	0	2	10	80.0	100.0	90.0	0.0	0.000
					c Other ingredients	7	0	10	0	2	1	0	0	1	10	90.0	80.0	85.0	0.0	0.000
					d Finished products (e.g. Chocolate Bars and Confectioneries with Fillings)	3	0	10	0	4	3	0	0	3	10	70.0	60.0	65.0	0.0	0.000
					Total	24	0	38	0	10	8	0	0	8	38	81.0	76.2	77.5	0.0	0.000

Category		Enrichment protocol		Extraction protocol	Type	PA	PA _{FP(alt)}	NA	NA _{FN(alt)}	PD	ND	ND _{FN(alt)}	PD _{FP(alt)}	TND	TNA	SE alt %	SE ref %	RT %	FPR %	FNR	
19	Chocolate and confectionaries up to 375 g	ISO	Preparation / ISO 6887 Pw BPW, 1/10, 22h	GENE-UP Lysis kit	a	Raw material	10		10	0	0		0	0	0	10	100.0	100.0	100.0	0.0	0.000
					b	Chocolate finished products	10		9	0	0		1	0	1	9	90.9	100.0	95.0	0.0	0.091
					c	Confectionaries	10		10	0	0		0	0	0	10	100.0	100.0	100.0	0.0	0.000
					Total		30		29	0	0		1	0	1	29	96.8	100.0	98.3	0.0	0.032
			Preparation / ISO 6887 Pw BPW 1/10, 22h	w/ BACTVIAB PMAxx GENE-UP Lysis kit	a	Raw material	10		10	0	0		0	0	0	10	100.0	100.0	100.0	0.0	0.000
					b	Chocolate finished products	10		9	0	0		1	0	1	9	90.9	100.0	95.0	0.0	0.091
					c	Confectionaries	10		10	0	0		0	0	0	10	100.0	100.0	100.0	0.0	0.000
					Total		30		29	0	0		1	0	1	29	96.8	100.0	98.3	0.0	0.032
20	Ingredients 375 g	ISO	Preparation /ISO 6887 Pw BPW, 1/10, 20h	GENE-UP Lysis kit	a	Egg based products	11		9	0	0		0	0	0	9	100.0	100.0	100.0	0.0	0.000
					b	Milk based products	10		9	0	0		1	1	1	10	90.9	100.0	95.2	10.0	0.091
					c	Other ingredients	10		13	0	0		1	0	1	13	90.9	100.0	95.8	0.0	0.091
					Total		31		31	0	0		2	1	2	32	93.9	100.0	96.9	3.1	0.061
			Preparation / ISO 6887 Pw BPW 1/10, 20h w PMAxx	w/ BACTVIAB PMAxx GENE-UP Lysis kit	a	Egg based products	11		9	0	0		0	0	0	9	100.0	100.0	100.0	0.0	0.000
					b	Milk based products	10		9	0	0		1	1	1	10	90.9	100.0	95.2	10.0	0.091
					c	Other ingredients	10		13	0	0		1	0	1	13	90.9	100.0	95.8	0.0	0.091
					Total		31		31	0	0		2	1	2	32	93.9	100.0	96.9	3.1	0.061
21	Pet food for cat and dog up to 375 g	ISO	Preparation / ISO 6887 Pw BPW 1/10, 20h	w/ BACTVIAB PMAxx GENE-UP Lysis kit	a	Raw material	9		13	0	0		1	0	1	13	90.0	100.0	95.7	0.0	0.100
					b	Wet pet food	10		10	0	0		0	0	0	10	100.0	100.0	100.0	0.0	0.000
					c	Dry pet food	12		8	0	0		0	0	0	8	100.0	100.0	100.0	0.0	0.000
					Total		31		31	0	0		1	0	1	31	96.9	100.0	98.4	0.0	0.031
All categories and protocols (mixed)						796	1	955	5	88	56	17	14	74	974	92.3	90.8	91.6	1.5	0.023	

Pw: pre-warmed

The following results are observed (See Table 9).

Table 9 - Summary of results

		All categories, protocols and incubation times
Sensitivity for the alternative method	$SE_{alt} = \frac{(PA + PD)}{(PA + TND + PD)} \times 100 \%$	92.3 %
Sensitivity for the reference method	$SE_{ref} = \frac{(PA + TND)}{(PA + TND + PD)} \times 100 \%$	90.8 %
Relative trueness	$RT = \frac{(PA + TNA)}{N} \times 100 \%$	91.6 %
False positive ratio for the alternative method (mixed evaluation)	$FPR = \frac{PA_{FP(alt)} + PD_{FP(alt)}}{TNA} \times 100 \%$	1.5 %
False negative ratio for the alternative method (mixed evaluation)	$FNR = \frac{NA_{FN(alt)} + ND_{FN(alt)}}{PA + TND + PD}$	0.023

3.1.6 Analysis of discordant results

The negative deviations are given in Table 10 and the positive deviations in Table 11.

> Negative deviations

For the standard protocol, 10 negative deviations were observed. For 4 samples, the confirmatory tests of the alternative method concluded to the presence of the *Salmonella* strain in the enrichment broth. For 6 samples, the confirmatory tests of the alternative method did not allow to recover the strain. The presence of *Salmonella* was confirmed by applying the protocol of the reference method for one sample (1584: chipolatas).

Three negative deviations were obtained when the ISO enrichment protocol was applied; this concerns a chocolate product (Sample No 5382) and two pet food samples (9522 and 9524). The presence of *Salmonella* was confirmed in the enrichment broth for two of them using the confirmation protocol of the alternative method (samples No 5382 and 9524).

For the specific protocols ④ (Cocoa products), ⑤ (milk powders - 375 g sample size) and ⑥ (Pet food - 375 g sample size), 17 negative deviations were obtained; 6 concerned chocolate products, 5 milk powders and 6 pet food.

For 2 samples (6681: cocoa beans; 4494: infant formula without probiotics), the presence of *Salmonella* was confirmed in the enrichment broth.

For the protocols ⑦ and ⑧, 2 negative deviations were observed (Samples 4710 Category 14 and Sample 4901 Category 15). For these two samples the confirmatory tests were negative.

Additionally, for 5 samples in negative agreement (4694: cocoa powder, general protocol; 5620: tarragon; 4385: infant cereals, ISO protocol; 6689: cocoa mass, 8516: rabbit food), the presence of *Salmonella* spp. was confirmed in the enrichment broth.

For the primary production samples, 7 negative deviations were observed, the confirmation was negative for all these samples. One of the samples was naturally contaminated (3008: Bootsocks, poultry) These discordant results were probably linked to the unpaired study design and the heterogeneity of sampling.

No sample in negative agreement (NA) was confirmed positive.

For category 17, 2 negative deviations are observed, they concern half-skimmed milk (sample 1678) and infant cereals with probiotics (sample 2043).

For category 18, 8 samples are in negative deviations whatever the protocol used, specific protocol ⑪ (GENE-UP EAYSYPREP) for both incubation times and specific ⑫ (GENE-UP Lysis kit). None of the samples in negative deviation was confirmed positive using the cultural confirmation procedure.

The presence of *Salmonella* spp. has not been confirmed in any of the samples in negative agreement (NA) whatever the category and protocol applied.

For category 19, one negative deviation was observed for chocolate and confectionaries for each of the extraction protocols (with and without BACTVIAB PMAxx), they concern two different samples (white chocolate and milk chocolate).

Two negative deviations were obtained for the ingredients category (category 20) for both extraction procedures.

The presence of *Salmonella* spp. was confirmed for all these samples. The contamination level was probably just at the limit of detection of the GENE-UP SLM2 method.

For category 21, one negative deviation was observed; it concerns a raw material (sample 6007). The presence of *Salmonella* spp. was confirmed in the enrichment broth for this sample but only after subculture in SX2. For this sample, the DNA extract was also tested without applying the BACTVIAB PMAxx protocol and the PCR result still gave a negative result.

The presence of *Salmonella* spp. has not been confirmed in any of the samples in negative agreement (NA).

> Positive deviations

For 25 g sample size, 5 positive deviations were obtained using the Standard protocol and 2 using the ISO protocol.

For these samples, the PCR results were confirmed only after subculture in SX2 (24 h) for sample No 4384 and only after 72 h storage of the enrichment broth using MSRV for sample No 4694 (ISO enrichment).

For the specific protocols (375 g sample size), 18 positive deviations were obtained: 6 for chocolate products, 9 for milk products and 3 for pet food.

For the protocols ⑦ and ⑧, 4 positive deviations were observed for Category 14 (infant formula and infant cereals with probiotics) and 4 for Category 15 (Milk powders, infant formula and infant cereals with or without probiotics, 375 g sample size).

For the primary production samples (protocol ⑨), 14 positive deviations were observed, they concern 13 artificially contaminated samples and 1 naturally contaminated sample (3944: wipe from pork environment).

For category 17, 6 samples are in positive deviations, 3 from type a (milk powders, infant formula and infant cereals without probiotics) and 2 for type c (ingredients)

For category 18, 9 samples are in positive deviations for protocol ⑪ (10 h incubation time), one additional positive deviation is observed after 22 h incubation time (Protocols ⑪ and ⑫).

For categories 19, 20 and 21, no positive deviation was observed.

The analyses of discordant results according to the ISO 16140-2 is given in Table 12.
Note that the acceptability limit (AL) has been estimated based on the number of positive samples.

Table 10 - Negative deviations

Standard protocol													
Sample N°	Products	Strain inoculated	Inoculation level (CFU/sample)	PCR			Confirmation		Agreement	Category	Type	Study design	Protocol
				CP	Tm	Result	Alternative	ISO					
1584	Chipolatas	/	/	0/0/0	0/0/0	-/-/-	-	+	ND _{FN(alt)}	2	c	Paired	Standard
2135	Raw cream	S. Mbandaka Ad1810	1	0/0/34.18	0/0/66.26	-/-/+	+	+	ND _{FN(alt)}	3	b	Paired	Standard
2138	Raw cream	S. Montevideo Ad912	1.6	0/0/35.21	0/0/67.46	-/-/+	+	+	ND _{FN(alt)}	3	b	Paired	Standard
3073	Paprika	S. Agona Ad1725	2.0	0	0	-	-	/	ND	5	a	Unpaired	Standard
3074	Turmeric	S. Oranienburg Ad1724	<1.7	8.97/0/0	49.04/65.95/0	+/-/-	- (MSRV -)	/	PA _{FP(alt)}	5	a	Unpaired	Standard
4267	Cocoa powder	S. Bareilly Ad1687	2.9	0/0/0	0/0/0	i/i*/-**	-	/	ND	5	a	Unpaired	Standard
4270	Cocoa bean	S. Typhimurium Ad1682	0.8	0	0	-	-	/	ND	5	a	Unpaired	Standard
5628	Infant formula with probiotics	S. Cerro Ad2150	4	0	0	-	-	/	ND	5	b	Unpaired	Standard
7580	Residues (fish industry)	S. Saintpaul F31	2.0	0/0/0	0/0/0	-/-/-	+	+	ND _{FN(alt)}	7	a	Paired	Standard
7663	Wipe (vegetables industry)	S. Heidelberg A00E005	1.8	0/0/0	0/0/0	-/-/-	+	+	ND _{FN(alt)}	7	c	Paired	Standard

ISO Enrichment (Cocoa 375 g 22h, Ingredients - types a and b) and Pet food 375 g)												
Sample N°	Products	Strain inoculated	Inoculation level (CFU/sample)	PCR			Confirmation	Agreement	Category	Type	Study design	Protocol
				CP	Tm	Result						
5382	Nut chocolate	S. Mbandaka Ad1723	0.4	0	0	-	+	ND _{FN(alt)}	10	b	Paired	ISO
9522	Guinea pig food	S. Livingstone F104	4.6	0/0/35.58	0/0/66.15	-/-/+	-	ND	12	b	Paired	ISO
9524	Rabbit food	S. Poona Ad2330	2.0	0/0/0	0/0/0	-/-/-	+	ND _{FN(alt)}	12	b	Paired	ISO

Specific protocols ④, ⑤, ⑥, ⑦, ⑧, ⑨												
Sample N°	Products	Strain inoculated	Inoculation level (CFU/sample)	PCR			Confirmation	Agreement	Category	Type	Study design	Protocol
				CP	Tm	Result						
3264	Cocoa powder (cocoa 32%)	S. Kentucky Ad1755	5.3	0	0	-	-	ND	10	a	Unpaired	4
3272	Cocoa powder (cocoa 20%)	S. Kentucky Ad1755	1.8	0	0	-	-	ND	10	a	Unpaired	4
3278	Cocoa powder (cocoa 20%)	S. Braenderup Ad1661	2.3	0	0	-	-	ND	10	a	Unpaired	4
3279	Cocoa powder (cocoa 32%)	S. Mbandaka Ad1723	3.5	0	0	-	-	ND	10	a	Unpaired	4
6681	Cocoa beans	S. Havana Ad2728	<0.4	0/0/0	0/0/0	-/-/-	+	ND _{FN(alt)}	10	c	Unpaired	4
6690	Cocoa mass	S. Mbandaka Ad1544	2.3	0	0	-	-	ND	10	c	Unpaired	4
4487	Skim milk powder	S. Infantis 401B	<3.1	0	0	-	-	ND	11	a	Unpaired	5
4489	Skim milk powder	S. Montevideo Ad912	<1.3	0	0	-	-	ND	11	a	Unpaired	5
4494	Infant formula without probiotics	S. Virchow Ad1721	0.8	0/0/0	0/0/0	-/-/-	+	ND _{FN(alt)}	11	b	Unpaired	5
5541	Skim milk powder	S. Cerro Ad2707	0.8	0	0	-	-	ND	11	a	Unpaired	5
5542	Skim milk powder	S. Anatum Ad2706	0.4	0	0	-	-	ND	11	a	Unpaired	5
6422	Pellets for cat (rabbit/poultry/vegetables/cereals)	S. Infantis 179	1.3	0	0	-	-	ND	12	b	Unpaired	6
6424	Pellets for cat (liver)	S. Braenderup F286	1.0	0	0	-	-	ND	12	b	Unpaired	6
8520	Pellets for dog (poultry, cereals, vegetables)	S. Llandoff Ad2726	<1.5	0	0	-	-	ND	12	b	Unpaired	6
8522	Pellets for cat (beef, poultry, vegetables)	S. Infantis Ad2712	0.8	0	0	-	-	ND	12	b	Unpaired	6
8523	Pellets for cat (tuna, salmon, cereals, vegetables)	S. Noya Ad2715	<0.8	0	0	-	-	ND	12	b	Unpaired	6
9122	Pellets for dog (poultry/barley)	S. Llandoff Ad2726	1.6	0	0	-	-	ND	12	b	Unpaired	6
4710	Infant cereals with probiotics (3.6 x 10 ⁴ CFU/g)	S. Agona Ad1725	3	0	0	-	-	ND	14	b	Unpaired	7
4901	Infant cereals with probiotics (1.2 x 10 ⁴ CFU/g)	S. Havana Ad2725	2.6	0	0	-	-	ND	15	b	Unpaired	8
2733	Boots (poultry environment)	S. Enteritidis Ad2970	2.2	0	0	-	-	ND	16	a	Unpaired	9
3008	Boots (poultry environment)	/	/	0	0	-	-	ND	16	a	Unpaired	9
3308	Pork feces	S. Livingstone Ad2279	2.6	0	0	-	-	ND	16	a	Unpaired	9
3313	Poultry feces	S. Mbandaka Ad1720	3.0	0	0	-	-	ND	16	a	Unpaired	9
3476	Poultry feces	S. Agona Ad1306	3.4	0	0	-	-	ND	16	a	Unpaired	9
3190	Sponge (poultry environment)	S. Djugu Ad 2969	3.0	0	0	-	-	ND	16	b	Unpaired	9
3316	Wipe (poultry environment)	S. Infantis Ad 1404	3.4	0	0	-	-	ND	16	b	Unpaired	9

Specific protocol ⑩												
Sample N°	Products	Strain inoculated	Inoculation level (CFU/sample)	PCR 20 h			Confirmation	Agreement	Category	Type	Study design	Protocol
				CP	Tm	Result						
1678	Half-skim milk powder (14% fat)	S. Montevideo 604	0.8	0	0	-	-	ND	17	a	Unpaired	10
2043	Infant cereals with probiotics (<i>B. lactis</i> : 1.18 x 10 ³ CFU/g)	S. Virchow Ad1721	1.7	0	0	-	-	ND	17	b	Unpaired	10

Specific protocol ⑪																	
Sample N°	Products	Strain inoculated	Inoculation level (CFU/ sample)	PCR 10 h			Confir- mation	Agree- ment 10 h	PCR 22 h			Confir- mation	Agree- ment 22 h	Category	Type	Study design	Protoco
				CP	Tm	Result			CP	Tm	Result						
2806	Cocoa mass	S. Stanley Ad1688	0.8	0	0	-	-	ND	0	0	-	-	ND	18	a	Unpaired	11
2807	Cocoa butter (non- deodorised)	S. Bareilly Ad1687	1.7	35.16 0 0	65.98 0 0	+ - -	-	ND	i i* i** 0***	i i* i** 0***	l i* i** _***	-	ND	18	a	Unpaired	11
2509	Whey protein concentrate	S. Infantis A00E057	3.6	0	0	-	-	ND	0	0	-	-	ND	18	b	Unpaired	11
2740	Cream powder	S. Schwarzengrund Ad2333	0.8	0	0	-	-	ND	0	0	-	-	ND	18	b	Unpaired	11
2736	Marzipan	S. Havana Ad2728	1.8	0	0	-	-	ND	0	0	-	-	ND	18	c	Unpaired	11
117735	Cocoa chocolate balls (65% cocoa)	S. Montevideo Ad1686	1.3	0	0	-	-	ND	0	0	-	-	ND	18	d	Unpaired	11
117737	Chocolate bar with puffed rice (25.90% fat) (29% cocoa)	S. Enteritidis ATCCBAA1045	1.5	0	0	-	-	ND	0	0	-	-	ND	18	d	Unpaired	11
117740	Dark chocolate bar 90% (21% fat) (90% cocoa)	S. Enteritidis ATCCBAA1045	1.5	0	0	-	-	ND	0	0	-	-	ND	18	d	Unpaired	11

* 1/3 dilution of the extract

** 1/10 dilution of the extract

*** 1/50 dilution of the extract

Specific protocol (12)												
Sample N°	Products	Strain inoculated	Inoculation level (CFU/sample)	PCR 22 h			Confirmation	Agreement	Category	Type	Study design	Protocol
				CP	Tm	Result						
2806	Cocoa mass	S. Stanley Ad1688	0.8	0	0	-	-	ND	18	a	Unpaired	12
2807	Cocoa butter (non-deodorised)	S. Bareilly Ad1687	1.7	35.16 0 0	65.98 0 0	+ - -	-	ND	18	a	Unpaired	12
2509	Whey protein concentrate	S. Infantis A00E057	3.6	0	0	-	-	ND	18	b	Unpaired	12
2740	Cream powder	S. Schwarzengrund Ad2333	0.8	0	0	-	-	ND	18	b	Unpaired	12
2736	Marzipan	S. Havana Ad2728	1.8	0	0	-	-	ND	18	c	Unpaired	12
117735	Cocoa chocolate balls (65% cocoa)	S. Montevideo Ad1686	1.3	0	0	-	-	ND	18	d	Unpaired	12
117737	Chocolate bar with puffed rice (25.90% fat) (29% cocoa)	S. Enteritidis ATCCBAA1045	1.5	0	0	-	-	ND	18	d	Unpaired	12
117740	Dark chocolate bar 90% (21% fat) (90% cocoa)	S. Enteritidis ATCCBAA1045	1.5	0	0	-	-	ND	18	d	Unpaired	12

ISO protocol (extension 10)															
Sample N°	Product	Strain inoculated	Inoculation level (CFU/sample)	Without BACTVIAB PMAxx			With BACTVIAB PMAxx			Confirmation	Agreement		Category	Type	Protocol
				PCR 20 h or 22 h			PCR 20 h or 22 h				Without PMAxx	With PMAxx			
				CP	Tm	Result	CP	Tm	Result						
3691	White chocolate	S. Bareilly Ad1687	1	0/36.07/0	0/65.85/0	-+/-	35.74	65.66	+	+	ND _{FN(alt)}	PA	19	b	ISO
3693	Milk chocolate	S. Stanley Ad1688	1	35.75	65.73	+	0/0/0	0/0/0	-/-/-	+	PA	ND _{FN(alt)}	19	b	ISO
3879	Whole milk powder	S. Mbandaka Ad2808	1.3	0/0/0	0/0/0	-/-/-	0/0/0	0/0/0	-/-/-	+	ND _{FN(alt)}	ND _{FN(alt)}	20	b	ISO
4311	Soy lecithin	S. Mbandaka Ad2808	0.3	0/0/0	0/0/0	-/-/-	0/0/0	0/0/0	-/-/-	+	ND _{FN(alt)}	ND _{FN(alt)}	20	c	ISO

ISO protocol (extension 12)											
Sample N°	Products	Strain inoculated	Inoculation level (CFU/Test portion))	PCR 20 h			Confirmation	Agreement	Category	Type	Protocol
				CP	Tm	Result					
6007	Raw material (rapeseed)	S. Mbandaka Ad2808	1.4	0/0/0 (w PMAxx) 0 (w/o PMAxx)	0/0/0 (w PMAxx) 0 (w/o PMAxx)	-/-/(w PMAxx) 0 (w/o PMAxx)	+	ND _{FN(alt)}	21	b	ISO

Table 11 - Positive deviations

Standard protocol (37°C)												
Sample N°	Products	Strain inoculated	Inoculation level (CFU/sample)	PCR			Confirmation		Agreement	Category	Type	Study design
				CP	Tm	Result	Alternative	ISO				
4268	Milk chocolate tablet	S. Typhimurium Ad1682	0.8	27.04	65.89	+	+	/	PD	5	a	Unpaired
4696	Tarragon	S. Infantis Ad1646	2.8	0/35.24*/0**	0/65.66*/0**	i/+*/i**	+	/	PD	5	a	Unpaired
4984	Black chocolate tablets	S. Typhimurium Ad1682	3	24.37	65.82	+	+	/	PD	5	a	Unpaired
4985	Black chocolate tablets	S. Typhimurium Ad2034	2.4	38.06	65.19	+	+	/	PD	5	a	Unpaired
5624	Infant formula with probiotics	S. Cerro Ad2153	3	32.43	65.81	+	+	/	PD	5	b	Unpaired

ISO protocol												
Sample N°	Products	Strain inoculated	Inoculation level (CFU/sample)	PCR			Confirmation	Agreement	Category	Type	Study design	
				CP	Tm	Result						
4384	Cereals with probiotics	S. Anatum Ad298	<0.3	0/0/0	66/66.45/0	+/-	+(SX2 24h)	PD	5	b	Paired	
4694	Cocoa powder	S. Stanley Ad1688	5.6	(36.83/40/0)**	(66.49/64.07/0)**	i/i*/(+/-)**	+(MSRV at 72h)	PD	5	a	Paired	

Specific protocols ④, ⑤, ⑥, ⑦, ⑧, ⑨												
Sample N°	Products	Strain inoculated	Inoculation level (CFU/sample)	PCR			Confirmation	Agreement	Category	Type	Study design	Protocol
				CP	Tm	Result						
3263	Cocoa powder (cocoa 31.7%)	S. Mbandaka Ad1723	10.5	30.64	66.26	+	+	PD	10	a	Unpaired	4
3266	Cocoa powder (cocoa 32%)	S. Braenderup Ad1661	6.0	32.61	66.21	+	+	PD	10	a	Unpaired	4
3271	Cocoa powder (cocoa 32%)	S. Mbandaka Ad1723	3.5	27.15	66.34	+	+	PD	10	a	Unpaired	4
3273	Cocoa powder (cocoa 20%)	S. Ouakam Ad1647	1.0	33.29	66.23	+	+	PD	10	a	Unpaired	4
6693	Dark chocolate	S. Typhimurium Ad1682	0.8	32.63	66.32	+	+	PD	10	b	Unpaired	4
6698	Dark chocolate (65% cocoa)	S. Infantis Ad1646	0.6	31.45	66.37	+	+	PD	10	b	Unpaired	4
4490	Half-skim milk powder	S. Montevideo Ad912	<1.3	21.5	65.69	+	+	PD	11	a	Unpaired	5
4491	Milk powder	S. Mbandaka Ad2296	3.0	35.57	65.13	+	+	PD	11	a	Unpaired	5
4492	Infant formula without probiotics	S. Mbandaka Ad2296	3.0	27.98	65.59	+	+	PD	11	b	Unpaired	5
4493	Infant formula without probiotics	S. Mbandaka Ad2296	3.0	20.49	66.33	+	+	PD	11	b	Unpaired	5
4497	Infant formula with probiotics (3.2 x 10 ⁶ CFU/g)	S. Virchow Ad1721	0.8	36.42	66.04	+	+	PD	11	c	Unpaired	5
4500	Infant formula with probiotics (2.3.10 ⁶ CFU/g)	S. Montevideo Ad912	<1.3	27.49	66.29	+	+	PD	11	c	Unpaired	5
5540	Milk powder	S. Cerro Ad2707	0.8	26.83	65.26	+	+	PD	11	a	Unpaired	5
7196	Skim milk powder	S. Anatum Ad2718	1.1	35.35	65.06	+	+	PD	11	a	Unpaired	5
7197	Skim milk powder	S. Tennessee Ad1171	0.3	26.39	65.03	+	+	PD	11	a	Unpaired	5
8519	Pellets for dog	S. Noya Ad2715	<0.8	24.61	66.09	+	+	PD	12	b	Unpaired	6
8521	Pellets for dog	S. Menston Ad2729	<0.4	24.29	66.65	+	+	PD	12	b	Unpaired	6
9121	Pellets for cat (salmon/barley)	S. Llandoff Ad2726	1.6	21.52	66.19	+	+	PD	12	b	Unpaired	6
4693	Infant formula with probiotics (6.0 x 10 ⁴ CFU/g)	S. Mbandaka Ad1722	4.2	20.08	66.13	+	+	PD	14	a	Unpaired	7
4697	Infant cereals with probiotics (2.5 x 10 ⁵ CFU/g)	S. Kasenyi Ad2921	4	22.48	65.57	+	+	PD	14	b	Unpaired	7
4708	Infant cereals with probiotics (1.6 x 10 ⁴ CFU/g)	S. Agona Ad1725	3	28.87	65.58	+	+	PD	14	b	Unpaired	7
4711	Infant cereals with probiotics (1.8 x 10 ⁴ CFU/g)	S. Panama Ad1733	1.5	25.99	65.94	+	+	PD	14	b	Unpaired	7
4887	Infant formula without probiotics	S. Indiana Ad174	4	20.26	65.56	+	+	PD	15	a	Unpaired	8
4899	Infant cereals with probiotics (8.4 x 10 ³ CFU/g)	S. Livingstone Ad2566	5.3	21.12	66.21	+	+	PD	15	b	Unpaired	8
4905	Infant formula with probiotics (3.2 x 10 ⁵ CFU/g)	S. Indiana Ad174	4	20.47	66	+	+	PD	15	b	Unpaired	8
4910	Infant formula with probiotics (3.1 x 10 ⁵ CFU/g)	S. Ohio Ad1482	2.6	20.87	65.94	+	+	PD	15	b	Unpaired	8

Specific protocols ④, ⑤, ⑥, ⑦, ⑧, ⑨

Sample N°	Products	Strain inoculated	Inoculation level (CFU/sample)	PCR			Confirmation	Agreement	Category	Type	Study design	Protocol
				CP	Tm	Result						
2732	Poultry feces	S. Agama Ad2949	3.6	22.78	65.84	+	+	PD	16	a	Unpaired	9
2735	Pork feces	S. Derby Ad2280	3.8	22.11	65.73	+	+	PD	16	a	Unpaired	9
3183	Pork feces	S. Infantis Ad 2278	4.0	27.62	65.48	+	+	PD	16	a	Unpaired	9
3187	Poultry feces	S. Djugu Ad 2969	3.0	24.12	65.85	+	+	PD	16	a	Unpaired	9
3312	Poultry feces	S. Mbandaka Ad1720	3.0	28.29	65.34	+	+	PD	16	a	Unpaired	9
3474	Bootsocks (poultry environment)	S. Agona Ad1306	3.4	22.04	65.94	+	+	PD	16	a	Unpaired	9
3482	Poultry feces	S. Gallinarium Ad1841	2.6	35.5/ 36/ 35.81	65.16/ 65.37/ 65.45	+	+ after a subculture in MKTTn)	PD	16	a	Unpaired	9
2739	Poultry litter	S. Anatum Ad1108	1.8	26.98	65.46	+	+	PD	16	b	Unpaired	9
2944	Wipe (pork)	/	/	31.59	65.45	+	+	PD	16	b	Unpaired	9
3184	Pork litter	S. Infantis Ad 2278	4.0	26.96	65.63	+	+	PD	16	b	Unpaired	9
3191	Sponge (poultry environment)	S. Typhimurium Ad1411	4.2	28.28	65.65	+	+	PD	16	b	Unpaired	9
3318	Sponge (poultry environment)	S. Mbandaka Ad1720	3.0	24.45	65.7	+	+	PD	16	b	Unpaired	9
3475	Sponge (poultry environment)	S. Agona Ad1306	3.4	27.15	65.71	+	+	PD	16	b	Unpaired	9
3477	Sponge (poultry environment)	S. Haifa Ad1727	3.4	23.52	65.81	+	+	PD	16	b	Unpaired	9

Specific protocol ⑩												
Sample N°	Products	Strain inoculated	Inoculation level (CFU/sample)	PCR 20h			Confirmation	Agreement	Category	Type	Study design	Protocol
				CP	Tm	Result						
1677	Whole milk powder (26% fat)	S. Montevideo 604	0.8	21.58	55.42	+	+	PD	17	a	Unpaired	10
2050	Infant formula with probiotics (22.6% fat)	S. Manhattan 900	1.5	19.53	65.47	+	+	PD	17	a	Unpaired	10
1684	Infant cereals	S. Montevideo 604	0.8	27.27	55.58	+	+	PD	17	a	Unpaired	10
2042	Infant cereals with probiotics (<i>B. lactis</i> : 1.09 x 10 ⁶ CFU/g)	S. Virchow Ad1721	1.7	18.58	64.99	+	+	PD	17	b	Unpaired	10
1813	Infant rice protein (25% fat)	S. Anatum Ad2706	3	18.33	65.67	+	+	PD	17	c	Unpaired	10
2041	Infant cereals with probiotics (<i>B. lactis</i> : 1.09 x 10 ⁶ CFU/g)	S. Virchow Ad1721	1.7	18.64	65.56	+	+	PD	17	b	Unpaired	10

Specific protocol ⑪																
Sample N°	Products	Strain inoculated	Inoculation level (CFU /sample)	PCR 10 h			Confirmation	Agreement 10 h	PCR 22 h			Confirmation	Agreement 22 h	Category	Type	Protocol
				CP	Tm	Result			CP	Tm	Result					
2514	Cocoa powder	S. Livingstone Ad2150	1.9	0	0	-	-	NA	18.61	66.43	+	+	PD	18	a	11
2801	Cocoa mass	S. Typhimurium Ad2034	0.6	31.26	66.68	+	+	PD	15.91	66.25	+	+	PD	18	a	11
2802	Cocoa butter (non-deodorised)	S. Bareilly Ad1687	1.7	33.70	65.90	+	+	PD	16.58	66.01	+	+	PD	18	a	11
3082	Cocoa liquor	S. Braenderburg Ad2815	2.6	32.10	66.03	+	+	PD	19.57	66.18	+	+	PD	18	a	11
2512	Rice starch	S. Manhattan 900	1.4	26.57	66.46	+	+	PD	16.98	65.86	+	+	PD	18	c	11
2733	Peanut butter	S. Schwarzengrund Ad2333	0.8	28.56	66.25	+	+	PD	20.00	65.88	+	+	PD	18	c	11
117635	Muffin filled with hazelnut and cocoa spread	S. Infantis Ad1684	2.2	30.02	66.13	+	+	PD	22.15	66.04	+	+	PD	18	d	11
117733	Coconut cake filled with milk and coconut (22.60% fat)	S. Infantis Ad1684	1.8	27.72	66.02	+	+	PD	28.17	65.84	+	+	PD	18	d	11
117736	Chocolate bar with wafer (26% fat) (68, 20% cocoa)	S. Montevideo Ad1686	1.3	34.23	65.90	+	+	PD	28.90	66.07	+	+	PD	18	d	11

Specific protocol ⑪																
Sample N°	Products	Strain inoculated	Inoculation level (CFU /sample)	PCR 10 h			Confirmation	Agreement 10 h	PCR 22 h			Confirmation	Agreement 22 h	Category	Type	Protocol
				CP	Tm	Result			CP	Tm	Result					
117738	Chocolate bar with hazelnuts (40% fat) (>20% cocoa)	S. Infantis Ad1684	1.8	31.60	65.49	+	+	PD	20.10	65.54	+	+	PD	18	d	11

Specific protocol ⑫											
Sample N°	Products	Strain inoculated	Inoculation level (CFU/sample)	PCR 22 h			Confirmation	Agreement 22 h	Category	Type	Protocol
				CP	Tm	Result					
2514	Cocoa powder	S. Livingstone Ad2150	1.9	19.84	65.39	+	+	PD	18	a	12
2801	Cocoa mass	S. Typhimurium Ad2034	0.6	26.89	65.59	+	+	PD	18	a	12
2802	Cocoa butter (non-deodorised)	S. Bareilly Ad1687	1.7	24.11	65.56	+	+	PD	18	a	12
3082	Cocoa liquor	S. Braenderburg Ad2815	2.6	23.95	66.11	+	+	PD	18	a	12
2512	Rice starch	S. Manhattan 900	1.4	20.05	65.49	+	+	PD	18	c	12
2733	Peanut butter	S. Schwarzengrund Ad2333	0.8	24.13	66.16	+	+	PD	18	c	12
117635	Muffin filled with hazelnut and cocoa spread	S. Infantis Ad1684	2.2	28.54	64.75	+	+	PD	18	d	12
117733	Coconut cake filled with milk and coconut (22.60% fat)	S. Infantis Ad1684	1.8	31.64	65.25	+	+	PD	18	d	12
117736	Chocolate bar with wafer (26% fat) (68. 20% cocoa)	S. Montevideo Ad1686	1.3	35.06	65.70	+	+	PD	18	d	12
117738	Chocolate bar with hazelnuts (40% fat) (>20% cocoa)	S. Infantis Ad1684	1.8	28.08	65.22	+	+	PD	18	d	12

Table 12 - Analyses of discordant results

Category		Enrichment protocol		Extraction protocol	Type		Study design	N+	TND	PD	PAIRED				UNPAIRED		Mixed study	
											TND-PD	AL	TND+PD	AL	TND-PD	AL	TND-PD	AL
1	Ready to eat and ready to reheat up to 25 g	Standard	Preparation ISO 6887 BPW 1/10, 18h	GENE-UP Lysis kit	a	Ready-To-Eat (RTE) foods	paired	9	0	0	0		0				0	
					b	Ready-To-Reheat (RTR) foods	paired	12	0	0	0		0				0	
					c	Cured and smoked products (no delicatessen)	paired	10	0	0	0		0				0	
					Total			31	0	0	0	3	0	6			0	3
2	Meat products up to 25 g	Standard	Preparation ISO 6887 BPW 1/10, 18h	GENE-UP Lysis kit	a	Raw meat products (frozen or fresh)	paired	12	0	0	0		0				0	
					b	Raw poultry (fresh or frozen)	paired	13	0	0	0		0				0	
					c	Raw delicatessen	paired	10	1	0	1		1				1	
					Total			35	1	0	1	3	1	6			1	3
3	Dairy products up to 25 g	Standard	Preparation ISO 6887 BPW 1/10, 18h	GENE-UP Lysis kit	a	Pasteurized products	paired	11	0	0	0		0				0	
					b	Raw products	paired	16	2	0	2		2				2	
					c	Ingredients and low moisture products	paired	20	0	0	0		0				0	
					Total			47	2	0	2	3	2	6			2	6
4	Vegetables and seafood samples up to 25 g	Standard	Preparation ISO 6887 BPW 1/10, 18h	GENE-UP Lysis kit	a	Fish and Seafood	paired	11	0	0	0		0				0	
					b	Produce	paired	12	0	0	0		0				0	
					c	Fruits & vegetables	paired	11	0	0	0		0				0	
					Total			34	0	0	0	3	0	6			0	3
5	Ingredients and specific products up to 25 g	Standard	BPW 1/10, 18h (without ISO 6887 additives)	GENE-UP Lysis kit	a	Raw ingredients	unpaired	10	4	4					0		0	
					b	Infant formula and cereals with probiotics	unpaired	12	1	1					0		0	
					c	Pasteurized eggs and egg powders	paired	11	0	0	0		0				0	
					Total			33	5	5	0	3	0	6	0	3	0	3
		Standard	preparation / ISO 6887 (with additives) BPW 1/10, 18h	GENE-UP Lysis kit	a	Raw ingredients	paired	7	0	1	-1		1				-1	
					b	Infant formula and cereals with probiotics	paired	12	0	1	-1		1				-1	
					c	Pasteurized eggs and egg powders	paired	11	0	0	0		0				0	
					Total			30	0	2	-2	3	2	6			-2	3
6	Pet food up to 25 g	Standard	Preparation ISO 6887 BPW 1/10, 18h	GENE-UP Lysis kit	a	Wet pet food	paired	16	0	0	0		0				0	
					b	Dry pet food	paired	15	0	0	0		0				0	
					Total			31	0	0	0	3	0	6			0	3
7	Environmental samples up to 25 g or mL or surface	Standard	Preparation ISO 6887 & ISO 18593 BPW 1/10, 18h	GENE-UP Lysis kit	a	Dusts and Residues	paired	10	1	0	1		1				1	
					b	Cleaning and Process Waters	paired	11	0	0	0		0				0	
					c	Surface samples	paired	10	1	0	1		1				1	
					Total			31	2	0	2	3	2	6			2	3
10	Cocoa and chocolates up to 375 g	④	Pw BPW, 1/10 20h	GENE-UP Lysis kit	a	Cocoa powders	unpaired	17	4	4					0		0	
					b	Chocolates	unpaired	8	0	2					-2		-2	
					c	Raw materials (Mass, liquor, beans, butter)	unpaired	8	2	0					2		2	
					Total			33	6	6					0	3	0	3
		ISO	Preparation / ISO 6887 Pw UHT milk, 1/10, 22h	GENE-UP Lysis kit	a	Cocoa powders	paired	13	0	0	0		0				0	
					b	Chocolates	paired	12	1	0	1		1				1	
					c	Raw materials (Mass, liquor, beans, butter)	paired	8	0	0	0		0				0	
					Total			33	1	0	1	3	1	6			1	3
11	Milk powders up to 375 g	⑤	Pw BPW + novobiocin, 1/4, 20h	GENE-UP Lysis kit	a	Milk powders	unpaired	12	4	5					-1		-1	
					b	Infant formula without probiotics	unpaired	10	1	2					-1		-1	
					c	Infant formula with probiotics	unpaired	10	0	2					-2		-2	
					Total			32	5	9					-4	3	-4	3
12	Pet food up to 375 g	⑥	Pw BPW, 1/6, 20h	GENE-UP Lysis kit	a	Wet pet food	unpaired	16	0	0					0		0	
					b	Dry pet food	unpaired	15	6	3					3		3	
					Total			31	6	3					3	3	3	3
		ISO	Preparation / ISO 6887 Pw BPW, 1/10, 20h	GENE-UP Lysis kit	a	Wet pet food	paired	16	0	0	0		0				0	
					b	Dry pet food	paired	17	2	0	2		2				2	
					Total			33	2	0	2	3	2	6			2	3

Category		Enrichment protocol		Extraction protocol	Type		Study design	N+	TND	PD	PAIRED				UNPAIRED		Mixed study	
											TND-PD	AL	TND+PD	AL	TND-PD	AL	TND-PD	AL
13	Milk powders, infant formula and infant cereals without probiotics including ingredients up to 25 g	Standard	Preparation ISO 6887 BPW 1/10, 18h	GENE-UP Lysis kit	a	Milk powders, infant formula	paired	10	0	0	0		0				0	
					b	Infant cereals	paired	11	0	0	0		0				0	
					c	Ingredients: whey, maltodextrin	paired	10	0	0	0		0				0	
					Total			31	0	0	0	3	0	6			0	3
14	Infant formula and infant cereals with probiotics up to 25 g	⑦ 18 h	BPW + novobiocin 10 mg/L, 1/10, 18h	GENE-UP Lysis kit	a	Infant formula	unpaired	17	0	1					-1		-1	
					b	Infant cereals	unpaired	16	1	3					-2		-2	
					Total			33	1	4					-3	3	-3	3
15	Milk powders, infant formula and infant cereals with or without probiotics including ingredients (excluding whey protein concentrates) up to 375 g	⑧ 20 h	Pw BPW + novobiocin 10 mg/L, 1/6, 20h	GENE-UP Lysis kit	a	Milk powders, infant formula and infant cereals without probiotics	unpaired	17	0	1					-1		-1	
					b	Infant formula and infant cereals with probiotics with	unpaired	15	1	3					-2		-2	
		ISO	Preparation / ISO 6887 Pw BPW, 1/10, 20h	GENE-UP Lysis kit	c1	Ingredients (maltodextrin, whey, lactose, starch, caseinate...)	paired	34	0	0	0		0				0	
					c2	Milk powders	paired	13	0	0	0		0				0	
					Total			79	1	4	0	3	0	6	-3	3	-3	3
16	Primary production samples up to 25g	⑨ 18 h	Tetrathionate + subculture SX2, 1/10, 18h	GENE-UP Lysis kit	a	Feces	unpaired	19	5	7					-2		-2	
					b	Non feces	unpaired	13	2	7					-5		-5	
					Total			32	7	14					-7	3	-7	3
17	Milk powders, infant formula and infant cereals with or without probiotics, including early life nutrition up to 375 g	⑩	Pw BPW + novobiocin 10 mg/L, 1/10, 20h	GENE-UP Lysis kit	a	Milk powder, infant formula and infant cereals without probiotics	unpaired	11	1	3					-2		-2	
					b	Infant formula and infant cereals with probiotics	unpaired	11	1	2					-1		-1	
					c	Early life nutrition	unpaired	10	0	1					-1		-1	
					Total			32	2	6					-4	3	-4	3
			Pw BPW + novobiocin 10 mg/L, 20h	w/ PMAxx GENE-UP Lysis kit	a	Milk powder, infant formula and infant cereals without probiotics	unpaired	11	1	3					-2		-2	
					b	Infant formula and infant cereals with probiotics	unpaired	11	1	2					-1		-1	
					c	Early life nutrition	unpaired	10	0	1					-1		-1	
					Total			32	2	6					-4	3	-4	3
18	Raw material for chocolate industry up to 375 g	⑪	Pw BPW + BACTBOOST, 1/10, 10h EGENE-UP EASY PREP	EGENE-UP EASY PREP	a	Coca based raw material	unpaired	11	2	3					-1		-1	
					b	Milk based products	unpaired	10	2	0					2		2	
					c	Other ingredients	unpaired	10	1	2					-1		-1	
					d	Finish product (Chocolate Bars and Confectioneries with Fillings)	unpaired	10	3	4					-1		-1	
					Total			41	8	9					-1	3	-1	3
			Pw BPW + BACTBOOST, 1/10, 22h EGENE-UP EASY PREP	EGENE-UP EASY PREP	a	Coca based raw material	unpaired	12	2	4					-2		-2	
					b	Milk based products	unpaired	10	2	0					2		2	
					c	Other ingredients	unpaired	10	1	2					-1		-1	
					d	Finish product (Chocolate Bars and Confectioneries with Fillings)	unpaired	10	3	4					-1		-1	
					Total			42	8	10					-2	3	-2	3
		⑫ 22 h GENE-UP Lysis kit	Pw BPW + BACTBOOST, 1/10, 22h	GENE-UP Lysis kit	a	Coca based raw material	unpaired	12	2	4					-2		-2	
					b	Milk based products	unpaired	10	2	0					2		2	
					c	Other ingredients	unpaired	10	1	2					-1		-1	
					d	Finish product (Chocolate Bars and Confectioneries with Fillings)	unpaired	10	3	4					-1		-1	
					Total			42	8	10					-2	3	-2	3
19	Chocolate and confectionaries up to 375 g	ISO	Preparation / ISO 6887 Pw BPW, 1/10, 22h	GENE-UP Lysis kit	a	Raw material	paired	10	0	0	0		0				0	
					b	Chocolate finished products	paired	11	1	0	1		1				1	
					c	Confectionaries	paired	10	0	0	0		0				0	
					Total			31	1	0	1	3	1	6			1	3
			Preparation / ISO 6887 Pw BPW 1/10, 22h	w/ PMAxx GENE-UP Lysis kit	a	Raw material	paired	10	0	0	0		0				0	
					b	Chocolate finished products	paired	11	1	0	1		1				1	
					c	Confectionaries	paired	10	0	0	0		0				0	
					Total			31	1	0	1	3	1	6			1	3

										PAIRED				UNPAIRED		Mixed study		
Category		Enrichment protocol		Extraction protocol	Type		Study design	N+	TND	PD	TND-PD	AL	TND+PD	AL	TND-PD	AL	TND-PD	AL
20	Ingredients 375 g	ISO	Preparation / ISO 6887 Pw BPW, 1/10, 20h	GENE-UP Lysis kit	a	Egg based products	paired	11	0	0	0		0				0	
					b	Milk based products	paired	11	1	0	1		1					
					c	Other ingredients	paired	11	1	0	1		1					
					Total			33	2	0	2		3			2	6	2
			Preparation / ISO 6887 Pw BPW 1/10, 20h w PMAxx	w/ PMAxx GENE-UP Lysis kit	a	Egg based products	paired	11	0	0	0		0			0		
					b	Milk based products	paired	11	1	0	1		1					
					c	Other ingredients	paired	11	1	0	1		1					
					Total			33	2	0	2		3			2	6	2
21	Pet food for cat and dog up to 375 g	ISO	Preparation / ISO 6887 Pw BPW 1/10, 20h	w/ PMAxx GENE-UP Lysis kit	a	Raw material	paired	10	1	0	1		1			1		
					b	Wet pet food	paired	10	0	0	0		0					
					c	Dry pet food	paired	12	0	0	0		0					
					Total			32	1	0	1		3			1	6	1
					All categories and protocols (mixed)								958	74	88			

The observed values for $((ND + PA_{FP(alt)}) - PD)$ and $((ND + PA_{FP(alt)}) + PD)$ for the individual categories and for all the categories and protocols combined meet the Acceptability Limits (observed values $\leq AL$).

3.1.7 Enrichment broth and lysate storage at $5 \pm 3^\circ C$ for 72 h

912 enrichments and 977 lysates were tested again after storage for 72 h at $5^\circ C \pm 3^\circ C$. 27 samples were concerned by results modifications; they are listed (See Table 13).

Table 13 - Enrichment broth and lysate storage

Sample N°	Product	Initial results	Broth 72 h storage	Lysate 72 h storage	Category	Type	Protocol
1580	Chorizo Chipolata	PA	PA	ND _{FN(alt)}	2	c	Standard
2138	Raw cream	ND _{FN(alt)}	PA	PA	3	b	Standard
2141	Raw cow milk cheese	PA	PA	ND _{FN(alt)}	3	b	Standard
2995	Vegetable mix	PA	PA _{FP(alt)}	PA _{FP(alt)}	4	c	Standard
1496	Chive	PA	ND _{FN(alt)}	PA	4	b	Standard
1503	Grated carrots	PA	PA	ND _{FN(alt)}	4	c	Standard
4694	Cocoa powder	NA _{FN(alt)}	PD	PD	5	a	Standard
4385	Infant cereals with probiotics	NA _{FN(alt)}	PD	PD	5	b	Standard
5624	Infant formula with probiotics	PD	PD _{FP(alt)}	PD _{FP(alt)}	5	b	Standard
7670	Dust from dairy industry	PA	PA	ND _{FN(alt)}	7	a	Standard
4694	Cocoa powder	PD	NA _{FN(alt)}	NA _{FN(alt)}	5	a	ISO
4387	Infant cereals with probiotics	PA	PA _{FP(alt)}	PA _{FP(alt)}	5	b	ISO
6689	Cocoa mass	NA _{FN(alt)}	NA _{FN(alt)}	PD	10	c	Specific ④
6696	Milk chocolate	PA	ND _{FN(alt)}	PA	10	b	Specific ④
4491	Milk powder	PD	PD	NA _{FN(alt)}	11	a	Specific ⑤
4494	Infant formula with probiotics	ND _{FN(alt)}	PA	ND _{FN(alt)}	11	b	Specific ⑤
4497	Infant formula without probiotics	PD	NA _{FN(alt)}	NA _{FN(alt)}	11	c	Specific ⑤
9521	Rabbit food	PA	PA	ND _{FN(alt)}	12	b	ISO
9524	Rabbit food	PA	ND _{FN(alt)}	ND _{FN(alt)}	12	b	Specific ⑥
4673	Infant formula without probiotics	PA	PA	ND _{FN(alt)}	13	a	Standard
4677	Infant formula without probiotics	PA	PA _{FP(alt)}	PA _{FP(alt)}	13	a	Standard
5393	Milk powder (26 % fat)	PA	ND _{FN(alt)}	PA	15	c	Specific ⑨
2515	Cocoa liquor	PA	PA	ND _{FN(alt)}	18	a	Specific ⑪
3693	Milk chocolate	PA	PA	ND _{FN(alt)}	19	b	ISO w/o BACTVIAB PMAxx
3691	White chocolate	PA	ND _{FN(alt)}	ND _{FN(alt)}	19	b	ISO with BACTVIAB PMAxx
3693	Milk chocolate	ND _{FN(alt)}	ND _{FN(alt)}	PA	19	b	
5941	Raw material (rapeseed cake)	PA	ND _{FN(alt)}	PA	21	a	ISO with PMAxx
6006	Raw material (peas starch)	PA	ND _{FN(alt)}	ND _{FN(alt)}	21	a	ISO with PMAxx

The two samples from category 21 were tested with and without applying the optional BACTVIAB PMAxx protocol after 72 h storage, the following results were obtained:

Sample N°	Extraction protocol	BPW 72 h			Lysate 72 h		
		Ct	Tm	Result	Ct	Tm	Result
5941	Without PMAxx	31.75	64.46	+	32.25 (w/o PMAxx)	65.58	+
	With PMAxx	0/29.17/0	66.00/0/0	-/+/-	0/0/0	0/0/0	-/-/-
6006	Without PMAxx	0	0	-	0	0	-
	With PMAxx	0	0	-	0	0	-

For sample 5941, when the lysate was tested without applying the PMAxx protocol, a positive result was observed. The contamination level was probably just at the limit of detection of the method. For sample 6006, all the PCR tests were negative in both conditions.

The analysis of discordant results is given in Table 14 for enrichment broth storage and Table 15 for lysate storage.

Table 14 - Analysis of discordant results after BPW storage for 72 h at 5 ± 3°C

Category		Enrichment protocol		Extraction protocol		N+	TND	PD	PAIRED				UNPAIRED		Mixed study	
									TND-PD	AL	TND+PD	AL	TND-PD	AL	TND-PD	AL
1	Ready to eat and ready to reheat up to 25 g	Standard	Preparation ISO 6887 BPW 1/10, 18h	GENE-UP Lysis kit	31	0	0		0	3	0	6			0	3
2	Meat products up to 25 g	Standard	Preparation ISO 6887 BPW 1/10, 18h	GENE-UP Lysis kit	35	1	0		1	3	1	6			1	3
3	Dairy products up to 25 g	Standard	Preparation ISO 6887 BPW 1/10, 18h	GENE-UP Lysis kit	47	1	0		1	3	1	6			1	6
4	Vegetables and seafood samples up to 25 g	Standard	Preparation ISO 6887 BPW 1/10, 18h	GENE-UP Lysis kit	34	2	0		2	3	2	6			2	3
5	Ingredients and specific products up to 25 g	Standard	BPW 1/10, 18h (without ISO 6887 additives)	GENE-UP Lysis kit	33	5	5		0	3	0	6	0	3	0	3
			Preparation ISO 6887 BPW 1/10, 18h	GENE-UP Lysis kit	30	1	2		-1	3	3	6			-1	3
6	Pet food up to 25 g	Standard	Preparation ISO 6887 BPW 1/10, 18h	GENE-UP Lysis kit	31	0	0		0	3	0	6			0	3
7	Environmental samples up to 25 g or mL or surface	Standard	Preparation ISO 6887 & ISO 18593 BPW 1/10, 18h	GENE-UP Lysis kit	31	2	0		2	3	2	6			2	3
10	Cocoa and chocolates up to 375 g	④	Pw BPW, 1/10 20h	GENE-UP Lysis kit	33	7	6						1	3	1	3
		ISO	Preparation / ISO 6887 Pw UHT milk, 1/10, 22h	GENE-UP Lysis kit	33	1	0		1	3	1	6			1	3
11	Milk powders up to 375 g	⑤	Pw BPW + novobiocin, 1/4, 20h	GENE-UP Lysis kit	31	4	8						-4	3	-4	3
12	Pet food up to 375 g	ISO	Preparation / ISO 6887 Pw BPW, 1/10, 20h	GENE-UP Lysis kit	33	2	0		2	3	2	6			2	3
13	Milk powders, infant formula and infant cereals without probiotics including ingredients 25 g	Standard	Preparation ISO 6887 BPW 1/10, 18h	GENE-UP Lysis kit	31	1	0		1	3	1	6			1	3
14	Infant formula and infant cereals with probiotics 25 g	⑦ 18 h	BPW + novobiocin 10 mg/L, 1/10, 18h	GENE-UP Lysis kit	33	1	4						-3	3	-3	3
15	Milk powders, infant formula and infant cereals with or without probiotics including ingredients (excluding whey protein concentrates) 375 g	ISO	Preparation / ISO 6887 Pw BPW, 1/10, 20h	GENE-UP Lysis kit	69	2	4		1	3	1	6	-3	3	-2	3
16	Primary production samples	⑨ 18 h	Tetrathionate + subculture SX2, 1/10, 18h	GENE-UP Lysis kit	33	7	14						-7	3	-7	3
17	Milk powders, infant formula and infant cereals with or without probiotics, including early life nutrition 375 g	⑩	Pw BPW + novobiocin 10 mg/L, 1/10, 20h	GENE-UP Lysis kit	32	2	6						-4	3	-4	3
			Pw BPW + novobiocin 10 mg/L, 20h	BACTVIAB PMAxx GENE-UP Lysis kit	32	2	6						-4	3	-4	3
18	Raw material for chocolate industry 375 g	⑪	Pw BPW + BACTBOOST, 1/10, 10h EGENE-UP EASY PREP	EGENE-UP EASY PREP	41	8	9						-1	3	-1	3
			Pw BPW + BACTBOOST, 1/10, 22h EGENE-UP EASY PREP	EGENE-UP EASY PREP	42	8	10						-2	3	-2	3
		⑫ 22 h GENE-UP Lysis kit	Pw BPW + BACTBOOST, 1/10, 22h	GENE-UP Lysis kit	31	3	4						-1	3	-1	3
19	Chocolate and confectionaries 375 g	ISO	Preparation / ISO 6887 Pw BPW 1/10, 22h	BACTVIAB PMAxx GENE-UP Lysis kit	31	2	0		2	3	2	6			2	3

Category		Enrichment protocol		Extraction protocol	N+	TND	PD	PAIRED				UNPAIRED		Mixed study	
								TND-PD	AL	TND+PD	AL	TND-PD	AL	TND-PD	AL
20	Ingredients 375 g	ISO	Preparation /ISO 6887 Pw BPW, 1/10, 20h	GENE-UP Lysis kit	33	2	0	2	3	2	6			2	3
			Preparation / ISO 6887 Pw BPW 1/10, 20h w PMAxx	BACTVIAB PMAxx GENE-UP Lysis kit	33	2	0	2	3	2	6			2	3
21	Pet food for cat and dog up to 375 g	ISO	Preparation / ISO 6887 Pw BPW 1/10, 20h	BACTVIAB PMAxx GENE-UP Lysis kit	32	3	0	3	3	3	6			3	3
All categories and protocols (mixed)					906	70	78							-8	17 (27 cat)
12	Pet foods up to 375 g	⑥	Pw BPW, 1/6, 20h	GENE-UP Lysis kit	31	7	3					4	3	4	3

The observed values for ((TND) - PD) and (TND + PD) for the individual categories and for all the combined categories and protocols (excluding pet food analysed with Specific protocol ⑥ as TND - PD > AL) meet the Acceptability Limits (observed values ≤ AL).

Table 15 - Analysis of discordant after lysate storage for 72 h at 5 ± 3°C

Category		Enrichment protocol		Extraction protocol	N+	TND	PD	PAIRED				UNPAIRED		Mixed study	
								TND-PD	AL	TND+PD	AL	TND-PD	AL	TND-PD	AL
1	Ready to eat and ready to reheat up to 25 g	Standard	Preparation ISO 6887 BPW 1/10, 18h	GENE-UP Lysis kit	31	0	0	0	3	0	6			0	3
2	Meat products up to 25 g	Standard	Preparation ISO 6887 BPW 1/10, 18h	GENE-UP Lysis kit	35	2	0	2	3	2	6			2	3
3	Dairy products up to 25 g	Standard	Preparation ISO 6887 BPW 1/10, 18h	GENE-UP Lysis kit	47	2	0	2	3	2	6			2	6
4	Vegetables and seafood samples up to 25 g	Standard	Preparation ISO 6887 BPW 1/10, 18h	GENE-UP Lysis kit	34	2	0	2	3	2	6			2	3
5	Ingredients and specific products up to 25 g	Standard	BPW 1/10, 18h (without ISO 6887 additives)	GENE-UP Lysis kit	34	5	5	0	3	0	6	0	3	0	3
6			Preparation ISO 6887 BPW 1/10, 18h	GENE-UP Lysis kit	30	1	2	-1	3	3	6			-1	3
7			Preparation ISO 6887 & ISO 18593 BPW 1/10, 18h	GENE-UP Lysis kit	31	3	0	3	3	3	6			3	3
10	Cocoa and chocolates up to 375 g	④	Pw BPW, 1/10 20h	GENE-UP Lysis kit	34	6	7					-1	3	-1	3
		ISO	Preparation / ISO 6887 Pw UHT milk, 1/10, 22h	GENE-UP Lysis kit	33	1	0	1	3	1	6			1	3
11	Milk powders up to 375 g	⑤	Pw BPW + novobiocin, 1/4, 20h	GENE-UP Lysis kit	30	5	7					-2	3	-2	3
12	Pet food up to 375 g	⑥	Pw BPW, 1/6, 20h	GENE-UP Lysis kit	31	6	3					3	3	3	3
		ISO	Preparation / ISO 6887 Pw BPW, 1/10, 20h	GENE-UP Lysis kit	33	3	0	3	3	3	6			3	3
13	Milk powders, infant formula and infant cereals without probiotics including ingredients up to 25 g	Standard	Preparation ISO 6887 BPW 1/10, 18h	GENE-UP Lysis kit	31	2	0	2	3	2	6			2	3
14	Infant formula and infant cereals with probiotics up to 25 g	⑦ 18 h	BPW + novobiocin 10 mg/L, 1/10, 18h	GENE-UP Lysis kit	33	1	4					-3	3	-3	3
15	Milk powders, infant formula and infant cereals with or without probiotics including ingredients (excluding whey protein concentrates) up to 375 g	ISO	Preparation / ISO 6887 Pw BPW, 1/10, 20h	GENE-UP Lysis kit	79	1	4	0	3	0	6	-3	3	-3	3
16	Primary production samples up to 25g	⑨ 18 h	Tetrathionate + subculture SX2, 1/10, 18h	GENE-UP Lysis kit	32	7	14					-7	3	-7	3
17	Milk powders, infant formula and infant cereals with or without probiotics, including early life nutrition up to 375 g	⑩	Pw BPW + novobiocin 10 mg/L, 1/10, 20h	GENE-UP Lysis kit	32	2	6					-4	3	-4	3
			Pw BPW + novobiocin 10 mg/L, 20h	BACTVIAB PMAxx GENE-UP Lysis kit	32	2	6					-4	3	-4	3
18	Raw material for chocolate industry up to 375 g	⑪	Pw BPW + BACTBOOST, 1/10, 10h EGENE-UP EASY PREP	EGENE-UP EASY PREP	41	9	9					0	3	0	3
			Pw BPW + BACTBOOST, 1/10, 22h EGENE-UP EASY PREP	EGENE-UP EASY PREP	42	8	10					-2	3	-2	3
		⑫ 22 h GENE-UP Lysis kit	Pw BPW + BACTBOOST, 1/10, 22h	GENE-UP Lysis kit	42	8	10					-2	3	-2	3
19	Chocolate and confectionaries up to 375 g	ISO	Preparation / ISO 6887 Pw BPW, 1/10, 22h	GENE-UP Lysis kit	31	2	0	2	3	2	6			2	3
			Preparation / ISO 6887 Pw BPW 1/10, 22h	BACTVIAB PMAxx GENE-UP Lysis kit	31	1	0	1	3	1	6			1	3

Category		Enrichment protocol		Extraction protocol	N+	TND	PD	PAIRED				UNPAIRED		Mixed study	
								TND-PD	AL	TND+PD	AL	TND-PD	AL	TND-PD	AL
20	Ingredients 375 g	ISO	Preparation / ISO 6887 Pw BPW, 1/10, 20h	GENE-UP Lysis kit	33	2	0	2	3	2	6			2	3
			Preparation / ISO 6887 Pw BPW 1/10, 20h w PMAxx	BACTVIAB PMAxx GENE-UP Lysis kit	33	2	0	2	3	2	6			2	3
21	Pet food for cat and dog up to 375 g	ISO	Preparation / ISO 6887 Pw BPW 1/10, 20h	BACTVIAB PMAxx GENE-UP Lysis kit	32	2	0	2	3	2	6			2	3
All categories and protocols (mixed)					958	85	87							-2	17 (27 cat)

The observed values for (TND - PD) and (TND + PD) for the individual categories and for all the categories and protocols combined meet the Acceptability Limits (observed values ≤ AL).

3.1.8 Confirmation

A summary of the differences observed between the different confirmation procedures is given in Table 16.

Table 16 - Differences observed between the different confirmation procedures

Category	Confirmation protocol	PA	PA _{FP(alt)}	NA	NA _{FN(alt)}	PD	ND	ND _{FN(alt)}	PD _{FP(alt)}	Total tested	PA+PD
All samples	DS chromID	623	71	836	0	67	61	2	19	1679	690
	DS XLD	645	52	836	0	67	60	2	17	1679	712
	DS ASAP	662	35	826	0	63	60	2	17	1665	725
	DS SALMA	185	0	235	0	36	28	2	3	489	221
	All confirmatory tests (Including SX2 subculture)	711	1	866	5	82	54	14	13	1746	793

Combining all the categories, the higher number of confirmed samples was obtained using ASAP agar plates for direct streaking from the enrichment broth (725 samples confirmed among the 1746 tested).

For SALMA, only 5 categories (17,18, 19, 20, 21) were tested with this selective media.

For one sample from category 20 (3881: Whey protein concentrate), all the PCR tests were positive (3 PCR tests per condition) but it was impossible to confirm the presence of *Salmonella* spp. in this sample despite the fact that additional confirmatory tests were performed (inoculation of 5 MSRV plates).

For one sample from category 21 (6006), confirmation was possible only after subculture in SX2 prior streaking onto selective agar plates.

Despite the fact that some differences were observed between the selective agar plates on the recovery of the *Salmonella* strains in the enriched samples, any agar can be used for confirmation.

3.1.9 PCR inhibition

PCR inhibitions were observed for 13 to 14 samples depending on the protocol evaluated. They concern 6 aromatic herbs, 7 cocoa products and 1 whole eggs product with the ISO protocol.

No inhibition was observed for the categories.

The number of PCR results obtained depending on the dilution applied is provided in the Table 17.

Table 17 - PCR inhibitions

Year of analysis	Sample N°	Product	Standard or specific protocols								
			PCR after incubation time			PCR after enrichment storage			PCR after lysate storage		
			Cp	Tm	Result	Cp	Tm	Result	Cp	Tm	Result
2016	3071	Dried basil	0/0/0/0	0/0/0/0	i/i*/i**/-***						
2016	3072	Dried herbs	0/0/0/0	0/0/0/0	i/i*/i**/-***						
2016	3076	Dried thyme	0/0/38	0/0/66.01	i/i*/+**	0/0*/38.02**	0/0*/66.1**	i/i*/+**	0/0*/31.87****	0/0*/66.27****	i/i*/+****
2016	4265	Cocoa powder	0/0/0	0/0/0	i/i*/-**						
2016	4266	Cocoa powder	0/0/0	0/0/0	i/i*/-**						
2016	4267	Cocoa powder	0/0/0	0/0/0	i/i*/-**	0/0*/0**	0/0*/0**	i/i*/-**	0/0*/0****	0/0*/0****	i/i*/-****
2016	4694	Cocoa powder	(0/34.04/34.01)**	(0/66.08/66)**	i/i*/(-/+)+**	0/0*/30.8**	0/0*/66.09**	i/i*/+**	0/0*/35.92****	0/0*/66.33****	i/i*/+****
2016	4695	Cocoa powder	(32.99/36.12/0)**	(64.03/66.76/0)**	i/i*/(+/-)+**	0/0*/0**	0/0*/0**	i/i*/-**	9.55/0*/0****	0/0*/0****	i/i*/-****
2016	4696	Tarragon	0/35.24*/0**	0/65.66*/0**	i/+*/i**	0/34.55*/27.47**	0/66.17*/66.56**	i/+*/+**	0/32.98*	0/66.12*	i/+*
2016	4697	Oregano	0/0*/0**/0***	0/0*/0**/0***	i/i*/i**/-***						
2016	5620	Tarragon	0/(0*)x3/(0**)x3	0/(0*)x3/(0**)x3	i/(-*)x3/(-**)x3	0/0*/0**	0/0*/0**	i/-*/-**	0/(0*)x3	0/(0*)x3	i/(-*)x3
2016	5621	Cocoa powder	0/8.03*/0	0/0*/0**	i/i*/-**						
2023	2807	Cocoa butter	0/8.03*/0	0/0*/0**	i/i*/-**				i / i* / i** / 0*****	i / i* / i** / 0*****	i/i*/i**/-*****

Year of analysis	Sample N°	Product	ISO protocol								
			PCR after incubation time			PCR after enrichment storage			PCR after lysate storage		
			Cp	Tm	Result	Cp	Tm	Result	Cp	Tm	Result
2016	3071	Dried basil	0/0*/0**	0/0*/0**	i/i*/-**						
2016	3072	Dried herbs	0/0*/0**	0/0*/0**	i/i*/-**						
2016	3076	Dried thyme	0/0*/39.32**	0/0*/61.2**	i/i*/+**	0/0*/37.02**	0/0*/65.89**	i/i*/+**	0/0*/33.58****	0/0*/66.45****	i/i*/+****
2016	4265	Cocoa powder	0/0*/0**	0/0*/0**	i/i*/-**						
2016	4266	Cocoa powder	0/0*/0**	0/0*/0**	i/-*/-**						
2016	4267	Cocoa powder	0/0*/27.64**	0/0*/66.19**	i/i*/+**	0/40*/27.58**	0/61.24*/65.99**	i/+*/+**	0/0*/27.77****	0/0*/65.89****	i/i*/+****
2016	4399	Whole egg powder	0/32.63*	0/66.19*	-/+*	24.82	66.1	+	0	0	-
2016	4694	Cocoa powder	(36.83/40/0)**	(66.49/64.07/0)**	i/i*/(+/-/-)**	0/0*/0**/0***	0/0*/0**/0***	i/-*/i**/-***	0/0*	0/0*	i/-*
2016	4695	Cocoa powder	0/0*/0**	0/0*/0**	i/i*/-**	0/0*/0**	0/0*/0**	i/i*/-**	0/0*	0/0*	i/-*
2016	4696	Tarragon	(37.57/37.76/35.78)*/ (0/33.96/35.12)**	(66.27/65.73/66.07)*/ (63.81/66.18/64.11)* *	i/+*/+**	(35.39/34.81/3 5.8)**	(66.23/66.42/66.13)* *	i/-*/+**	0/0*	0/0*	i/-*
2016	4697	Oregano	0/0*/0**/0***	0/0*/0**/0***	i/-*/i**/-***	0/0*/0**/0***	0/0*/0**/0***	i/-*/i**/-***	0/0*	0/0*	i/-*
2016	5620	Tarragon	0/0*/0**	0/0*/0**	i/-*/-**	0/0*/0**	0/0*/0**	i/i*/-**	0/0*	0/0*	i/-*
2016	5621	Cocoa powder	0/0*/0**	0/0*/0**	i/-*/-**	(35.39/34.81/ 35.8)**	(66.23/66.42/66.13)* *	i/-*/+**	0/0*	0/0*	i/-*
2023	2807	Cocoa butter									

Dilution applied	Number of PCR results obtained when applying the dilution
*=Lysate 1/3	17
**=Enrichment 1/10	20
***= Enrichment 1/10 + lysate 1/3	3
****=Lysate 1/5	6
*****=Lysate 1/50	2
Total	48

3.2 Relative level of detection

The relative level of detection is the level of detection at $P = 0.50$ (LOD_{50}) of the alternative (proprietary) method divided by the level of detection at $P = 0.50$ (LOD_{50}) of the reference method.

The RLOD is defined as the ratio of the alternative and reference methods:

$$RLOD = \frac{LOD_{Alt.}}{LOD_{Ref.}}$$

3.2.1 Experimental design

Twenty-one (matrix/strain) pairs were analyzed by the reference method and by the alternative method (See Table 18) using the following protocol:

- A negative control: 5 samples,
- A low contamination level providing fractional recovery data, with 20 replicates,
- A high contamination level, with 5 replicates.

Each matrix was first screened for the presence of *Salmonella* using the tested reference method(s) on 5 replicates.

Salmonella species frequently isolated from the matrix were inoculated and was allowed to equilibrate with the matrices prior to analysis. The inoculation protocol was adapted to the nature of the matrix evaluated. Concentration levels were adjusted to achieve fractional recovery.

A total plate count determination on each matrix was performed to estimate the total microbial load on the day of analysis.

Table 18 - Defined (matrix/strain) pairs for the RLOD determination

Category	Matrix	Strain	Origin	Inoculation and storage condition	Test portion size	Protocol	Study design
1. Ready to eat and ready to reheat foods	Mayonnaise based deli salad (macédoine)	S. Mbandaka Ad914	Mayonnaise	Seeding 48 h at 5°C ±3°C	25 g	Standard, 18h	Paired
2. Meat products	Ground beef	S. Typhimurium A00C060	Ground beef	Seeding 48 h at 5°C ±3°C	25 g	Standard, 18h	Paired
3. Dairy products	Milk powder	S. Anatum Ad298	Milk powder	Seeding lyophilized strain 2 weeks at ambient temperature	25 g	Standard, 18h	Paired
	Raw milk	S. Ohio Ad1482	Raw milk	Seeding 48 h at 5°C ±3°C	25 g	Standard, 18h	Paired
4. Vegetables and seafood	Fresh spinach	S. Virchow Ad1721	Cereals	Seeding 48 h at 5°C ±3°C	25 g	Standard, 18h	Paired
5. Ingredients and specific products	Pasteurized whole liquid egg	S. Havana Ad1728	Liquid egg product	Seeding 48 h at 5°C ±3°C	25 g	Standard, 18h	Paired
6. Pet foods	Pellet for dog	S. Derby Ad1878 (origin: raw material for pet food)	Feed	Seeding Lyophilized strain 2 weeks at ambient temperature	25 g	Standard, 18h	Paired
7. Production environmental samples	Process water	S. Livingstone A00E058	Dusts	Seeding 48 h at 5°C ±3°C	25 g	Standard, 18h	Paired
10. Cocoa and chocolates	Chocolate	S. Typhimurium Ad2034	Cocoa beans	Spiking, heat treatment	375 g	Specific ④, 20h	Unpaired
						ISO 6579-1 & 6887	Paired
11. Milk powders	Infant formula with probiotics	S. Mikawasima Ad1811	Raw ewe milk	Seeding lyophilized strain 2 weeks at ambient temperature	375 g	Specific ⑤, 20h	Paired
12. Pet foods	Pellets for dog	S. Braenderup F286 (origin: feed product)	Feed	Seeding Lyophilized strain 2 weeks at ambient temperature	375 g	Specific ⑥, 20h	Unpaired
						ISO 6579-1 & 6887	Paired
13. Milk powders, infant formula and infant cereals without probiotics including ingredients	Infant cereals	S. Panama Ad1733	Infant formula	Seeding protocol Lyophilized strain 2 weeks at room temperature	25 g	Standard 18h	Paired
14. Infant formula and infant cereals with probiotics	Infant formula with probiotics	S. Livingstone Ad2705	Milk powder	Seeding protocol Lyophilized strain 2 weeks at room temperature	25 g	Specific ⑦, 20h	Unpaired

Category	Matrix	Strain	Origin	Inoculation and storage condition	Test portion size	Protocol	Study design
15. Milk powders, infant formula and infant cereals with or without probiotics including ingredients (excluding whey protein concentrates)	Maltodextrin	S. Cerro Ad2152	Whey	Seeding protocol Lyophilized strain 2 weeks at room temperature	375 g	Specific ④, 20h	Unpaired
	Infant formula with probiotics	S. Mbandaka Ad1810	Cheese	Seeding protocol Lyophilized strain 2 weeks at room temperature	375 g	Specific ⑧, 20h	Paired
16. Primary production samples (excluding drinking water)	Boots socks	S. Djugu Ad2969	Boots socks	Seeding 24 h at room temperature	Sample device	Specific ⑨, 18h	Unpaired
17 -Milk powders, infant formula and infant cereals with and without probiotics, ELN	Infant formula with probiotics	S. Livingstone Ad2705	Milk powder	Seeding protocol Lyophilized strain 2 weeks at room temperature	375 g	Specific ⑩, 20 h	Unpaired
18. Ingredients for chocolate industry	Cocoa powder	S. Typhimurium Ad3034	Cocoa powder	Seeding protocol Lyophilized strain 2 weeks at room temperature	375 g	Specific ⑪ (10 h & 22h) & ⑫	Unpaired
	Chocolate with Fillings	S. Braenderup Ad1661	Chocolate factory	Seeding protocol Lyophilized strain 2 weeks at room temperature	375 g	Specific ⑪ (10 h and 22 h incubation time) and ⑫ (22 h incubation time)	Unpaired
19 Chocolate and confectionaries	Cocoa powder	S. Typhimurium Ad3034	Cocoa beans	Seeding protocol Lyophilized strain 2 weeks at room temperature	375 g	ISO 6579 & 6887 protocol (UHT skimmed milk)	Paired
20 Ingredients	Maltodextrin	S. Cerro Ad2152	Whey	Seeding protocol Lyophilized strain 2 weeks at room temperature	375 g	ISO 6579-1 & 6887	Paired
21 Pet food for cat and dog	Dry kibbles for dog	S. Derby Ad1878	Raw material for pet food	Lyophilized strain Storage for 2 weeks at ambient temperature	375 g	ISO 6579-1 & 6887 Pre-warmed BPW 20-28 h at 34-38°C	Paired

3.2.2 Calculation and interpretation of the RLOD

The raw data obtained for the study are given in **Appendix 5**. The RLOD calculations were performed using the Excel spreadsheet available at <http://standards.iso.org/iso/16140> - RLOD version 4 (2024-01-10). The RLOD are given in Table 19.

**Table 19 – Presentation of RLOD
after confirmation of the alternative method results**

Category	Matrix / strain pair	Protocol	Study Design	AL	RLOD [95% confidence limit]	
					without BACTIVIAB PMAxx	with BACTIVIAB PMAxx
1	Deli salad (macedoine)/ S. Mbandaka Ad914	Standard protocol-25g	Paired	1.5	1.000 [0.543;1.842]	/
2	Ground beef / S. Typhimurium A00C060	Standard protocol-25g	Paired	1.5	1.000 [0.531;1.883]	/
3	Milk powder / S. Anatum Ad298	Standard protocol-25g	Paired	1.5	1.000 [0.633;2.059]	/
	Raw milk / S. Ohio Ad1482	Standard protocol-25g	Paired	1.5	1.546 [0.838;2.851]	/
4	Fresh spinach / S. Virchow Ad1721	Standard protocol-25g	Paired	1.5	1.260 [0.688;2.307]	/
5	Pasteurized whole egg / S. Havana Ad1725	Standard protocol-25g	Paired	1.5	1.000 [0.525;1.906]	/
6	Pellet for dog / S. Derby Ad1878	Standard protocol - 25g	Paired	1.5	1.000 [0.523;1.913]	/
7	Process water / S. Livingstone A00E058	Standard protocol-25g	Paired	1.5	1.165 [0.591;2.294]	/
10	Dark chocolate /S. Typhimurium Ad2034	Specific protocol ④ - 375g	Unpaired	2.5	1.931 [0.548;6.797]	/
	Dark chocolate / S. Typhimurium Ad2034	Protocol ISO - 375g	Paired	1.5	1.208 [0.394;3.701]	/
11	Infant formula with probiotics / S. Mikawasima Ad1811	Specific protocol ⑤ - 375g	Unpaired	2.5	0.187 [0.071;0.490]	/
12	Pellet for dog / S. Braenderup F286	Specific protocol ⑥ - 375g	Unpaired	2.5	1.531 [0.785;2.986]	/
	Pellet for dog / S. Braenderup F286	Protocol ISO - 375g	Paired	1.5	1.170 [0.624;2.194]	/
13	Infant cereals without probiotics / S. Panama Ad1733	Standard protocol - 25g	Paired	1.5	1.000 [0.427;2.340]	/
14	Infant formula with probiotics / S. Livingstone Ad2705	Specific protocol ⑦ - 25g	Unpaired	2.5	1.582 [0.609;4.113]	/
15	Infant formula with probiotics / S. Mbandaka Ad1810	Specific protocol ⑧ - 375g	Unpaired	2.5	0.353 [0.157;0.790]	/
	Maltodextrin / S. Cerro Ad2152	ISO - 375g	Paired	1.5	1.000 [0.413;2.419]	/
16	Boots socks / S. Djugu Ad2969	Specific protocol ⑨	Unpaired	2.5	0.868 [0.355;2.123]	/
17	Infant formula with probiotics S. Livingstone Ad2005	Specific protocol ⑩	Unpaired	2.5	1.151 [0.519;2.553]	

Category	Matrix / strain pair	Protocol	Study Design	AL	RLOD [95% confidence limit]	
					without BACTIVIAB PMAxx	with BACTIVIAB PMAxx
18	Cocoa powder S. Typhimurium Ad3034	Specific protocol ⑪ 10 h	Unpaired	2.5	2.352 [1.087;5.093]	/
		Specific protocol ⑪ 22 h	Unpaired	2.5	1.901 [0.885;4.083]	/
		Specific protocol ⑫	Unpaired	2.5	1.901 [0.885;4.083]	/
	Milk chocolate bar with a smooth hazelnut filling and a crispy wafer / S. Braenderup Ad1661	Specific protocol ⑪ 10 h	Unpaired	2.5	1.179 [0.570;2.441]	/
		Specific protocol ⑪ 22 h	Unpaired	2.5	1.179 [0.570;2.441]	/
		Specific protocol ⑫	Unpaired	2.5	1.179 [0.570;2.441]	/
19	Cocoa powder / S. Typhimurium Ad3034	ISO 375g	Paired	1.5	1.000 [0.481;2.079]	1.000 [0.481;2.079]
20	Maltodextrin / S. Cerro Ad2152	ISO 375g	Paired	1.5	1.000 [0.473;2.114]	1.000 [0.473;2.114]
21	Dry kibbles for dog / S. Derby Ad1878	ISO 375g	Paired	1.5	/	1.170 [0.624;2.194]

The LOD₅₀ calculations were done using the Excel spreadsheet available at <http://standards.iso.org/iso/16140> POD-LOD calculation program - version 12, 2024-03-05. The results are given in Table 20.

Table 20 - LOD₅₀ results

Category	Matrix / strain pair	Protocol	Level of detection at 50 % (CFU / sample size) according to Wilrich & Wilrich ¹	
			Reference method	Alternative method
1	Deli salad (macedoine)/ S. Mbandaka Ad914	Standard protocol-25g	1.0 [0.7;1.5]	1.0 [0.7;1.5]
2	Ground beef / S. Typhimurium A00C060	Standard protocol-25g	0.5 [0.3;0.7]	0.5 [0.3;0.7]
3	Milk powder / S. Anatum Ad298	Standard protocol-25g	0.5 [0.3;0.7]	0.5 [0.3;0.8]
	Raw milk / S. Ohio Ad1482	Standard protocol-25g	1.4 [0.9;2.2]	2.2 [1.4;3.6]
4	Fresh spinach / S. Virchow Ad1721	Standard protocol-25g	0.7 [0.5;1.1]	0.9 [0.6;1.4]
5	Pasteurized whole egg / S. Havana Ad1725	Standard protocol-25g	1.1 [0.7;1.7]	1.1 [0.7;1.7]
6	Pellet for dog / S. Derby Ad1878	Standard protocol - 25g	1.0 [0.6;1.6]	1.0 [0.6;1.6]
7	Process water / S. Livingstone A00E058	Standard protocol-25g	1.2 [0.8;2.0]	1.4 [0.9;2.4]
10	Dark chocolate /S. Typhimurium Ad2034	Specific protocol ④ - 375g	1.2 [0.6;2.3]	1.8 [1.0;3.1]
	Dark chocolate / S. Typhimurium Ad2034	Protocol ISO - 375g	1.2 [0.6;2.3]	1.4 [0.7;2.6]
11	Infant formula with probiotics / S. Mikawasima Ad1811	Specific protocol ⑤ - 375g	1.0 [0.6;1.6]	0.2 [0.1;0.3]

¹ Wilrich, C., and P.-Th. Wilrich: Estimation of the POD function and the LOD of a qualitative microbiological measurement method. AOAC International **92** (2009) 1763 - 1772.

Category	Matrix / strain pair	Protocol	Level of detection at 50 % (CFU / sample size) according to Wilrich & Wilrich ¹	
			Reference method	Alternative method
12	Pellet for dog / S. Braenderup F286	Specific protocol (6) - 375g	1.2 [0.8;1.9]	1.9 [1.1;3.0]
	Pellet for dog / S. Braenderup F286	Protocol ISO - 375g	1.2 [0.8;1.9]	1.4 [0.9;2.3]
13	Infant cereals without probiotics / S. Panama Ad1733	Standard protocol - 25g	0.8 [0.4;1.5]	0.8 [0.4;1.5]
14	Infant formula with probiotics / S. Livingstone Ad2705	Specific protocol (7) - 25g	0.4 [0.2;0.8]	0.7 [0.3;1.3]
15	Infant formula with probiotics / S. Mbandaka Ad1810	Specific protocol (8) - 375g	0.5 [0.3;0.8]	0.2 [0.1;0.3]
	Maltodextrin / S. Cerro Ad2152	ISO - 375g	1.3 [0.7;2.4]	1.3 [0.7;2.4]
16	Bootsocks / S. Djugu Ad2969	Specific protocol (9)	0.7 [0.4;1.2]	0.6 [0.4;1.1]
17	Infant formula with probiotics / S. Livingstone Ad2005	Specific protocol (10)	0.1 [0.1;0.3]	0.2 [0.1;0.3]
18	Cocoa powder S. Typhimurium Ad3034	Specific protocol (11) 10 h	0.3 [0.2;0.6]	1.0 [0.6;1.9]
		Specific protocol (11) 22 h	0.3 [0.2;0.6]	0.8 [0.4;1.3]
		Specific protocol (12)	0.3 [0.2;0.6]	0.8 [0.4;1.3]
	Milk chocolate bar with a smooth hazelnut filling and a crispy wafer / S. Braenderup Ad1661	Specific protocol (11) 10 h	0.3 [0.2;0.5]	0.3 [0.2;0.5]
		Specific protocol (11) 22 h	0.3 [0.2;0.5]	0.3 [0.2;0.5]
		Specific protocol (12)	0.3 [0.2;0.5]	0.3 [0.2;0.5]
19	Cocoa powder / S. Typhimurium Ad3034	ISO 375g	1.2 [0.7;2.0]	1.2 [0.7;2.0]
20	Maltodextrin / S. Cerro Ad2152	ISO 375g	0.7 [0.4;1.3]	0.7 [0.4;1.3]
21	Dry kibbles for dog / S. Derby Ad1878	ISO 375g	0.8 [0.4;1.4]	0.8 [0.4;1.4]

The RLOD meets the Acceptability Limits (observed values $\leq$ AL) for all the matrix/strain pairs tested, except for raw milk for which the calculated value is just above the AL (AL = 1.546).

The LOD₅₀ varies from 0.1 to 1.4 CFU/sample size for the reference method and from 0.2 to 2.2 CFU/sample size for the alternative method.

3.3 Inclusivity / exclusivity

The inclusivity is the ability of the alternative method to detect the target analyte from a wide range of strains. The exclusivity is the lack of interference from a relevant range of non-target strains of the alternative method.

The inclusivity has already been tested for the initial validation study using the short protocol dedicated to raw meat (8h at 41.5°C). For the extension study N° 8 performed in 2020, the protocol for primary production samples was tested (18 h at 37°C in TT broth). As the specific protocol (12) uses a BACTBOOST with an incubation time of

10 h and the EGENE-UP® EASYPREP, the inclusivity study was also tested using this protocol.

3.3.1 Protocols

> Inclusivity

- *Initial validation study: Salmonella* strains cultures were performed in BHI medium at 37°C. Dilutions were done in order to inoculate 10 to 100 cells/225 ml in pre-warmed BPW. The enrichment broth was incubated for 8 h at 41.5°C ± 1°C (short protocol dedicated to raw meat). The protocol of the alternative method was then run.
- *Extension study No 8 (PPS):* the target strains were grown in BHI overnight at 37°C and inoculated between 10 to 100 CFU/225ml TT broth, incubated for 18 h at 37°C. A subculture in SX2 broth was performed (incubation 18 h at 41.5°C) before performing the alternative method.
- *Extension study No 11:* 100 *Salmonella* strain cultures were performed in BHI medium at 37°C. Dilutions were done in order to inoculate prewarmed BPW + BACTBOOST™. The broths were incubated for 10 h at 37°C ± 1°C before performing the alternative method protocol (specific ⑫, with the EGENE-UP® EASYPREP lysis protocol).

> Exclusivity

Negative strains cultures were performed in BHI at 37°C. Dilutions were realized in order to inoculate around 10⁵ cells/ml BPW. The BPW broth was then incubated 24 h at 37°C ± 1°C. The alternative method was then performed.

3.3.2 Results

The raw data are given in **Appendix 6**.

> Inclusivity

- *Initial validation study:* for the inclusivity study, 6 target strains among the 100 strains tested gave positive PCR results only for 24 h incubation time when incubated in buffered peptone water. These strains gave positive PCR tests after 8 h incubation time when tested in presence of a food matrix (milk or ground beef).

Strains belonging to *Salmonella* Typhi (one strain) and Paratyphi (three strains) serotypes were tested using the complete protocol of the alternative method; they all gave positive results.

- *Extension study No 8 (PPS)*: among the 100 *Salmonella* strains tested, 99 gave positive PCR and confirmatory tests. One strain (*Salmonella* Luciana CIP 1052626) gave negative PCR tests whatever the protocol applied (with or without adding feces), in some cases colonies were observed on the plates but the Latex test was negative. This strain was also tested using the protocol of the ISO 6579-1 method and typical colonies were observed on the four selective agar plates. This strain gave positive PCR result when tested with the protocol dedicated to raw meat, the negative result was probably linked to the difficulty of the strain to grow in TT broth.

Note that 5 other serotypes (Aberdeen, Maracaibo, Marseille, Rubislaw and Veneziana) from the same group (O) were tested and were detected using the GENE-UP method.

- *Extension study No 11*: all the targets gave positive results by PCR. Some strains were not able to grow on selective agar plates:
 - SM2: *S. Wayne* Ad502
 - ASAP plates: *S. Abortusovis* Ad2320, *S. Strasbourg* CIP 105632
 - XLD: *S. Wayne* Ad502.

Some strains grown but giving non-characteristic colonies:

- SM2: *S. Abortusovis* Ad2320, *S. bongori* Ad598, *S. Dublin* Ad529, *S. Gallinarum* Ad300
- ASAP: *S. Abortusovis* Ad2320, *S. bongori* Ad598, *S. Dublin* Ad529, *S. Gallinarum* Ad300, *S. Luciana* CIP 105626, *S. Orion* Adria 27
- SALMA: *S. Abortusovis* Ad2320.

Latex tests were negatives for three strains when tested from SM2, ASAP or SALMA:

- *S. arizonae* CIP 8230
- *S. arizonae* Ad1850,
- *S. bongori* Ad598.

> **Exclusivity**

No cross reaction was observed among the 30 non-target tested strains.

3.4 Practicability

The alternative method practicability was evaluated according to the AFNOR criteria relative to method comparison study.

Storage conditions, shelf-life and modalities of utilisation after first use	Enrichment broth: after incubation before the lysis step or confirmation, 2 - 8°C for 3 days. Lysis reagent: - before use at 15 - 25 °C in the kit until expiration date of the kit - lysate (after addition of the sample and vortex step): 1 h at 15 - 25°C 3 days at 2 - 8°C (or - 20°C for longer storage)					
Time to result	Steps	Reference method	Alternative method			
			8 h	24 h	PPS protocol	Specific ⑪ EGENE-UP EASYPREP
	Negative samples					
	Sampling / enrichment	Day 0	Day 0	Day 0	Day 0	Day 0
	Subculture RVS, MKTTn, MSRV or SX2	Day 1	/	/	Day 1	Day 0
	Lysis and PCR	/	Day 0	Day 1	Day 2	Day 0
	Streaking RVS, MKTTn, MSRV or SX2	Day 2 or Day 3	/	/	/	/
	Reading plates	Day 3-Day 4	/	/	/	/
	Presumptive positive or positive results					
	Direct streaking from primary enrichment broth or SX2	/	Day 0	Day 1	Day 2	Day 0
	Reading plates	Day 3-Day 4	Day 1	Day 2	Day 3	Day 1
	Confirmatory tests	Day 4 - Day 6	Day 1	Day 2	Day 4	Day2 (Day 1 for latex test)
Common step with the reference method	No common step					

For low moisture products and cheeses, the negative results are available in one day and the positive results in one or four days (primary production samples protocol) depending on the protocol applied.

4 EXTENSION STUDY RESULTS FOR THE UNIT-DOSE KIT (2018)

An extension study was carried out in December 2018 for a new format of the kit. The different steps impacted by the modifications are indicated in Table 21.

Table 21 - Summary of the changes

	Current kit	New kit
	Multi-Dose	Unit-Dose
Reference of the kit	414150	423105
Production site of PCR reagents	Salt-Lake City	Grenoble
Preparation of PCR reagents	45 µl reconstitution buffer + Mix PCR 5µL / PCR tube	Lyophilized mix PCR in the tube
Volume of lysate used for PCR	5 µl	10 µl
Software version	2.0	3.0

The modifications concern:

- The preparation of PCR tubes: with the multi-dose kit, the mix is reconstituted by adding 45 µl of reconstitution buffer to one vial containing reagents for 8 PCR reactions. 5 µl of this solution are then added to each PCR tube. With the Unit-Dose kit format, the tubes are already filled with lyophilized reagents necessary for PCR reaction.
- The volume of lysate used for PCR with the current kit is 5 µl; the volume to be used for the new kit is 10 µl.
- The Routine software used for the multi-dose kit is the V2.0; the version V3.0 is used with the Unit-Dose kit format.

For both the assay and the internal control, the software evaluates if the melting peak is inside of a range of T_M values (50 - 70) and compares the relative height of the peaks to defined threshold values.

The interpretation of both software versions is described below:

	V2.0	V3.0
Negative result	• No melt peak detected • Peak outside of a defined TM range (50°C - 70°C) • Height of the peak lower than the negative threshold	• No melt peak detected • Peak outside of a defined TM range (50°C - 70°C) • Height of the peak lower than the negative threshold
Positive result	• Melt peak inside the TM range values • Peak higher than the negative threshold	• Melt peak inside the TM range values • Peak higher than the negative threshold (increased for the internal control to better detect inhibitions) • Curve crosses a new positive threshold • Specific access to individual assays, which provides more flexibility

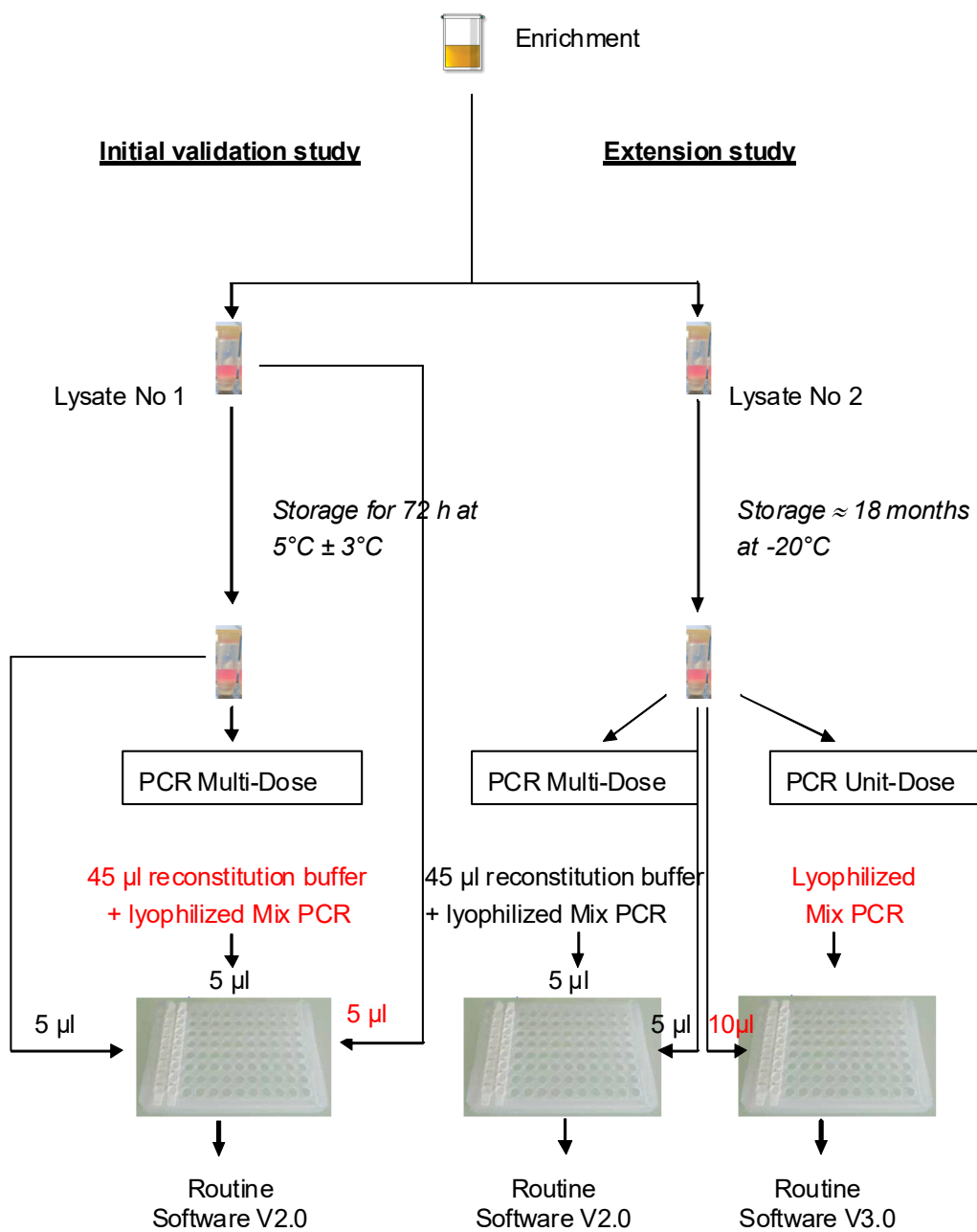
4.1 Analysis

In order to check that the modifications have no impact on the validation study results, it was proposed to test again the lysates obtained for the initial validation and extension studies.

Only the lysates prepared just after incubation time were tested again. Note that all the lysates were stored at -20°C. Note that the lysates stored for this comparison study are different from the lysates tested just after incubation as two lysates were produced, one for direct testing and storage for 72 hours at 2-8°C and the second for freezing. This, as well as the duration of the storage, may explain some difference between the initial result and the retesting.

The lysates were tested by both kits, Multi doses associated with the Routine software version 2.0 and the Unit doses associated with the Routine software version 3.0 (See Figure 1).

Figure 1



4.2 Results

4.2.1 Sensitivity study

The sensitivity (SE) is the ability of the method to detect the analyte by either the reference or alternative method.

4.2.1.1 Number of DNA extracts tested

The raw data are provided in **Appendix 7**.

1166 lysates were tested for the incubation protocols at 37°C.

4.2.1.2 Interpretation

The interpretation was done by comparing the PCR results obtained with the unit dose format to those obtained with the multi-dose format without taking into account the results of confirmatory tests obtained for the initial validation study. A summary of the results is provided in Table 22.

Table 22 - Summary of the results obtained with the Multi-dose and Unit-dose format

Category		Protocol	PA*	NA	ND**	PD	Total
1	Ready to eat and ready to reheat	Standard	30	32	0	0	62
2	Meat products	Standard	34	51	0	0	85
3	Dairy products	Standard	45	45	0	2	92
4	Vegetables and seafood samples	Standard	35	30	1	0	66
5	Ingredients and specific products	Standard	31	35	2	0	68
		ISO	31	32	4	1	68
6	Pet foods	Standard	31	34	0	0	65
7	Production environmental samples	Standard	27	41	3	1	72
10	Cocoa and chocolates	ISO	30	33	0	1	64
		④	30	33	2	0	65
11	Milk powders	⑤	26	34	0	2	62
12	Pet food	ISO	30	32	1	1	64
		⑥	25	36	0	0	61
13	Milk powders, infant formula and infant cereals without probiotics including ingredients	Standard	31	30	0	0	61
14	Infant formula and infant cereals with probiotics	⑦	32	31	0	0	63
15	Milk powders, infant formula and infant cereals with or without probiotics including ingredients	④ and ⑧	66	80	1	1	148
All categories			534	609	14	9	1166

For protocols with an incubation at 37°C, 14 negative deviations and 9 positive deviations were observed when comparing both kit formats.

The discordant results are listed in Table 23 for negative deviations and Table 24 for positive deviations.

Table 23 - Negative deviations

Protocol	Sample N°	Product	Reference method: ISO 6579 ♦	Initial validation study						Extension study							Category	Type
				Multi dose						Multi dose			Unit dose			Agreement Multi dose / Unit dose		
				Cp	Tm	Result	Confirmation	Final result	Agreement Ref/Alt	Cp	Tm	Result	Cp	Tm	Result			
Standard	4244	Baby leaves	-	0	0	-	-	-	NA	36/0/0	66.39/0/0	+/-/-	0	0	-	ND	4	b
Standard	4695	Cocoa powder	-	(32.99/36.12/0)**	(64.03/66.76/0)**	i/i*/(+/-/-)**	- (MSRV -)	-	PDFP(alt)	0/0*/35.82* *	0/0*/66.89**	i/i*/+**	0/0*/0**	0/0*/0**	i/i*/-**	ND	5	a
Standard	4697	Oregano	-	0/0*/0**/0***	0/0*/0**/0***	i/i*/i**/-***	-	-	NA	0/36.56*0/0* *	0/61.95*0**	i/+*/-**	0/0*/0**/0***	0/0*/0**/0***	i/i*/i**/-***	ND	5	a
ISO	4268	Milk chocolate tablet	-	0	0	-	-	-	NA	0/0/35.49	65.77/0/65.9	+/-/+	0	0	-	ND	5	a
ISO	4269	Dark chocolate tablet	-	0	0	-	-	-	NA	0/0/0	65.44/0/0	+/-/i	0	0	-	ND	5	a
ISO	4694	Cocoa powder	-	(36.83/40/0)**	(66.49/64.07/0)**	i/i*/(+/-/-)**	+ (MSRV -/+ at 72h)	+	PD	0/35.92*	0/65.31*	i/+*	0/0*/0**	0/0*/0**	i/i*/-**	ND	5	a
ISO	4697	Oregano	-	0/0*/0**/0***	0/0*/0**/0***	i/-*/i**/-***	-	-	NA	0/33.78*0/0* *	0/66.09*0**	i/+*/i**	0/0*/0**/0***	0/0*/0**/0***	i/i*/i**/-***	ND	5	a
Standard	7350	Process water (swine industry)	+	34.46	66.04	+	+	+	PA	35.89	65.7	+	0/0/0	0/0/0	-/-/-	ND	7	b
Standard	7789	Wipe after cleaning (delicatessen industry)	+	26.2	66.33	+	+	+	PA	28.29	66.75	+	0/34.79/34.64	0/64.8/64.89	-/+/+	ND	7	c
Standard	7790	Wipe after cleaning (delicatessen industry)	+	23.93	66.63	+	+	+	PA	24.62	66.45	+	0/29.56/29.81	0/65.3/63.17	-/+/+	ND	7	c
④	6689	Cocoa mass	-	0/35.03/0	0/66.74/0	-/+/-	+	-	NAFN(alt)	35.65	66.89	+	0/34.61/34.42	0/66.7/66.73	-/+/+	ND	10	c
④	7052	Dark chocolate	-	0	0	-	-	-	NA	35.61/0/0	66.68/0/0	+/-/-	0	0	-	ND	10	b
ISO	9522	Guinea pig food	+	0/0/35.58	0/0/66.15	-/-/+	-	-	ND	35.72	67.05	+	0	0	-	ND	12	b
⑧	4996	Casein	-	0	0	-	-	-	NA	30.64/0/0	66.56/0/0	+/-/-	0	0	-	ND	15	c

Table 24 - Positive deviations

Protocol	Sample N°	Product	Reference method: ISO 6579 [♦]	Initial validation study						Extension study							Category	Type
				Multi dose						Multi dose			Unit dose			Agreement Multi dose / Unit dose		
				Cp	Tm	Result	Confirmation	Final result	Agreement Ref/Alt	Cp	Tm	Result	Cp	Tm	Result			
Standard	2138	Raw cream	+	0/0/35.21	0/0/67.46	-/-/+	+	-	ND _{FN(alt)}	0	0	-	35.79	66.3	+	PD	3	b
Standard	2399	Raw ewe milk cheese	-	0	0	-	-	-	NA	0	0	-	0/0/0	62.21/0/0	+/-/-	PD	3	b
ISO	4384	Cereals with probiotics	-	0/0/0	66/66.45/0	+/-/-	+	+	PD	0	0	-	35.17	65.2	+	PD	5	b
ISO	2406	Porcine environment	-	0	0	-	-	-	NA	0	0	-	35.7/0/0	66.26/0/0	+/-/-	PD	7	b
ISO	6687	Cocoa mass	+	35	66.47	+	+	+	PA	0/0/35.54	0/0/66.64	-/-/+	35.65	66.95	+	PD	10	c
ISO	9521	Rabbit food	+	36.38	66	+	+	+	PA	0	0	-	36.8	66.04	+	PD	12	b
⑤	4494	Infant formula without probiotics	+	0/0/0	0/0/0	-/-/-	+	-	ND _{FN(alt)}	0	0	-	35.97	66.06	+	PD	11	b
⑤	7890	Infant formula with probiotics (<2.0.10 ³ CFU/g)	-	0	0	-	-	-	NA	0	0	-	35.54/0/0	64.28/0/0	+/-/-	PD	11	c
⑧	3635	Whey	-	0	0	-	-	-	NA	0	0	-	35.08/0/37.37	65.49/65.24/64.7	+/+/+	PD	15	c

* Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

> Negative deviations

For 9 of the samples, the confirmatory tests were negative (initial validation study); this means that when the comparison is done with the initial confirmation results, the samples are in negative agreement.

For 5 samples (4694, 7350, 7789, 7790 and 6689), the presence of *Salmonella* spp. was confirmed in the enrichment broth, these are false negative results for the unit dose assay.

For 2 samples (9522 and 4996), the PCR tests were repeated twice with the multi-dose kit and negative results were obtained.

> Positive deviations

For 9 samples in positive deviation, the confirmatory tests performed for the initial validation study were positive for 5 samples (2138, 4384, 6687, 9521 and 4494). The confirmed positive samples correspond to true positive results, and this is false negative results for the multi doses assay.

For 4 samples the confirmatory tests were negative (initial validation study); this means that when the comparison is done with the initial confirmation results, the samples are in negative agreement.

For 4 samples (2399, 2406, 7890 and 3635), the PCR were repeated twice; negative results were obtained for 3 samples. For one sample, one positive and one negative result were observed.

Finally, taking into account the initial confirmation results, 5 positive deviations and 5 negative deviations were obtained in this extension study (See Table 25).

Table 25 – Differences observed between Multi-Dose and Unit-Dose kits

Sample N°	Product	Protocol	Reference method: ISO 6579 ♦	Initial validation study				Initial validation study				Category	Type
				Multi-Dose				Multi-Dose	Unit-Dose	Agreement Multi dose / Unit dose	Agreement Multi dose / Unit dose taking into account confirmation		
				Result	Confirmation	Final result	Agreement Ref/Alt	Result	Result				
4244	Baby leaves	Standard	-	-	-	-	NA	+/-/-	-	ND	NA	4	b
4695	Cocoa powder	Standard	-	i/i*/(+/+/-)**	- (MSRV -)	-	PD _{FP(alt)}	i/i*/+**	i/i*/-.**	ND	NA	5	a
4697	Oregano	Standard	-	i/i*/i**/-***	-	-	NA	i/+*/-.**	i/i*/i**/- ***	ND	NA	5	a
4268	Milk chocolate tablet	ISO	-	-	-	-	NA	+/-/+	-	ND	NA	5	a
4269	Dark chocolate tablet	ISO	-	-	-	-	NA	+/-/i	-	ND	NA	5	a
4694	Cocoa powder	ISO	-	i/i*/(+/+/-)**	+ (MSRV -/+ at 72h)	+	PD	i/+*	i/i*/-.**	ND	ND _{FN(alt)}	5	a
4697	Oregano	ISO	-	i/-*/i**/-***	-	-	NA	i/+*/i**	i/i*/i**/- ***	ND	NA	5	a
7350	Process water (swine industry)	Standard	+	+	+	+	PA	+	-/-/-	ND	ND _{FN(alt)}	7	b
7789	Wipe after cleaning (delicatessen industry)	Standard	+	+	+	+	PA	+	-/+/+	ND	ND _{FN(alt)}	7	c
7790	Wipe after cleaning (delicatessen industry)	Standard	+	+	+	+	PA	+	-/+/+	ND	ND _{FN(alt)}	7	c
6689	Cocoa mass	Specific ④	-	-/+/-	+	-	NA _{FN(alt)}	+	-/+/+	ND	ND _{FN(alt)}	10	c
7052	Dark chocolate	Specific ④	-	-	-	-	NA	+/-/-	-	ND	NA	10	b
9522	Guinea pig food	ISO	+	-/-/+	-	-	ND	+	-	ND	NA	12	b
4996	Casein	Specific ⑧	-	-	-	-	NA	+/-/-	-	ND	NA	15	c
2138	Raw cream	Standard	+	-/-/+	+	-	ND _{FN(alt)}	-	+	PD	PD	3	b
2399	Raw ewe milk cheese	Standard	-	-	-	-	NA	-	+/-/-	PD	NA	3	b
4384	Cereals with probiotics	ISO	-	+/+/-	+	+	PD	-	+	PD	PD	5	b

♦ Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

Sample N°	Product	Protocol	Reference method: ISO 6579 ♦	Initial validation study				Initial validation study				Category	Type
				Multi-Dose				Multi-Dose	Unit-Dose	Agreement Multi dose / Unit dose	Agreement Multi dose / Unit dose taking into account confirmation		
				Result	Confirmation	Final result	Agreement Ref/Alt	Result	Result				
2406	Porcine environment	ISO	-	-	-	-	NA	-	+/-/-	PD	NA	7	b
6687	Cocoa mass	ISO	+	+	+	+	PA	-/-/+	+	PD	PD	10	c
9521	Rabbit food	ISO	+	+	+	+	PA	-	+	PD	PD	12	b
4494	Infant formula without probiotics	Specific ⑤	+	-/-/-	+	-	ND _{FN(alt)}	-	+	PD	PD	11	b
7890	Infant formula with probiotics (<2.0x10 ³ CFU/g)	Specific ⑤	-	-	-	-	NA	-	+/-/-	PD	NA	11	c
3635	Whey	Specific ⑧	-	-	-	-	NA	-	+/+/+	PD	NA	15	c

For the **Standard protocol**, among the 7 positive deviations, 4 results are true positive as the confirmatory tests performed for the initial validation study concluded to the presence of *Salmonella* spp in the enrichment broth (PD).

For 3 samples (7214, 3075, 4699), the confirmatory tests were negative (PD_{FP(alt)}). For these samples, the PCR tests were repeated twice using both kit formats (sample 7214) and only with the unit dose kit for samples 3075 and 4699.

For sample 7214, all the replicates gave positive PCR results (multi-dose and unit dose).

For sample 3075, one positive and one negative PCR result were obtained (unit dose); for sample 4699, 2 negative results were observed (unit dose).

2 samples in negative deviations (2084 and 4697) were not confirmed initially; these samples correspond to true negative samples (NA) with a possible cross contamination during the retest with the multi-dose.

For 2 samples (2977 and 5621), the confirmations were positive; these results are thus false negative results (ND_{FN(alt)}).

For the **Specific protocol 1**, two positive deviations were obtained. Sample 7884 is a true positive result as the presence of *Salmonella* spp. was initially confirmed. Sample 7337 is a false positive result as it was not confirmed (8 h incubation time). The PCR was repeated twice using the unit dose kit for this sample and negative results were obtained.

For the **Specific protocol 2**, 6 disagreements were observed between both kit formats, two negative deviations corresponding to true negative samples (not confirmed after 10 h incubation time) and 4 positive deviations corresponding to true positive samples (initially confirmed)

A lot of lysates were tested for the extension study; it is possible that some errors or cross contaminations occurred during testing; this could explain the differences observed between the first assay and the 2 replicates done in a second time (+/-/- or -/+/+).

Finally taking into account the initial confirmation results, 9 positive deviations and 2 negative deviations were obtained in this extension study (See Table 26).

Table 26 - Differences observed between Multi-Dose and Unit-Dose kits

Sample N°	Product	Protocol	Reference method: ISO 6579 ♦	Initial validation study				Initial validation study				Category	Type
				Multi-Dose				Multi-Dose	Unit-Dose	Agreement Multi dose / Unit dose	Agreement Multi dose / Unit dose taking into account confirmation		
				Result	Confir- mation	Final result	Agreement Ref/Alt	Result	Result				
7785	Ready to reheat food	Standard	+	-/-/-	+	-	ND _{FN(alt)}	-	+	PD	PD	1	b
7214	Raw hen leg	Standard	-	-	-	-	NA	-/+ / +	+	PD	PD _{FP(alt)}	2	b
747	Sausages	Standard	+	-/-/-	+	-	ND _{FN(alt)}	-/-	+	PD	PD	2	c
4247	Sprouts	Standard	+	-/-/-	+	-	ND _{FN(alt)}	-	+	PD	PD	4	b
3075	Curry	Standard	-	-	-	-	NA	-	i/(+ / + / -)*	PD	PD _{FP(alt)}	5	a
4699	Chinese spices	Standard	-	-	-	-	NA	-	+ / - / -	PD	PD _{FP(alt)}	5	a
5625	Infant formula with probiotics (7.1.10 ³ CFU/g)	Standard	+	-/-/-	+	-	ND _{FN(alt)}	-	+	PD	PD	5	b
2084	Milk powder	Standard	-	-	-	-	NA	+ / - / -	-	ND	NA	3	b
2977	Sprouts	Standard	-	+	+	+	PD	+	- / - / -	ND	ND _{FN(alt)}	4	b
4697	Oregano	Standard	-	i/i* / i** / -***	-	-	NA	i/i* / i** / +***	i/i* / i** / i*** / -	ND	NA	5	a
5621	Cocoa powder	Standard	-	i/i* / +**	+	+	PD	i/i* / +**	i/i* / i** / -***	ND	ND _{FN(alt)}	5	a
7884	Fresh seasoned ground beef	Specific ①	+	- / - / -	-	-	ND	-	+	PD	PD _{FP(alt)}	8	c
7337	Frozen ground beef	Specific ①	+	-	-	-	ND	-	+ / - / -	PD	PD _{FP(alt)}	8	b
5313	Frozen Veal trim	Specific ②	-	-	-	-	NA	+	-	ND	NA	9	b
5326	Frozen pork trim	Specific ②	-	-	-	-	NA	+ / - / -	-	ND	NA	9	b
4364	Veal trim	Specific ②	+	- / + / -	+	-	ND _{FN(alt)}	-	+	PD	PD	9	a
4366	Pork trim	Specific ②	-	- / + / +	+	-	NA _{FN(alt)}	-	+	PD	PD	9	a
4371	Frozen ground beef	Specific ②	+	- / + / -	+	-	ND _{FN(alt)}	-	+	PD	PD	9	b
4373	Frozen ground veal	Specific ②	+	- / + / -	+	-	ND _{FN(alt)}	-	+	PD	PD	9	b

♦ Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

The results obtained by the unit dose kit format are satisfying regarding the sensitivity study whatever the tested protocol.

4.2.1.3 Inhibitions

A summary of the samples with PCR inhibitions is given in Table 27 for an incubation at 37°C among the 655 samples tested.

Table 27 - PCR inhibitions

Initial validation study

Sample N°	Product	Standard protocol			ISO specific protocol		
		PCR after incubation time			PCR after incubation time		
		Cp	Tm	Result	Cp	Tm	Result
3071	Dried basil	0/0/0/0	0/0/0/0	i/i*/i**/-***	0/0/0	0/0/0	i/i*/-**
3072	Dried herbs	0/0/0/0	0/0/0/0	i/i*/i**/-***	0/0/0	0/0/0	i/i*/-**
3076	Dried thyme	0/0/38	0/0/66.01	i/i*/+**	0/0/39.32	0/0/61.2	i/i*/+**
4265	Cocoa powder	0/0/0	0/0/0	i/i*/-**	0/0/0	0/0/0	i/i*/-**
4266	Cocoa powder	0/0/0	0/0/0	i/i*/-**	0/0/0	0/0/0	i/-*/-**
4267	Cocoa powder	0/0/0	0/0/0	i/i*/-**	0/0/27.64	0/0/66.19	i/i*/+**
4694	Cocoa powder	(0/34.04/34.01)**	(0/66.08/66)**	i/i*/(-/+/-)**	(36.83/40/0)**	(66.49/64.07/0)**	i/i*/(+/-/-)**
4695	Cocoa powder	(32.99/36.12/0)**	(64.03/66.76/0)**	i/i*/(+/-/-)**	0/0/0	0/0/0	i/i*/-**
4696	Tarragon	0/35.24*/0**	0/65.66*/0**	i/+*/i**	(37.57/37.76/35.78)*/(0/33.96/35.12)**	(66.27/65.73/66.07)*/(63.81/66.18/64.11)**	i/+*/+**
4697	Oregano	0/0*/0**/0***	0/0*/0**/0***	i/i*/i**/-***	0/0*/0**/0***	0/0*/0**/0***	i/-*/i**/-***
5620	Tarragon	0/(0*)x3/(0**)x3	0/(0*)x3/(0**)x3	i/(-*)x3/(-**)x3	0/0*/0**	0/0*/0**	i/-*/-**
5621	Cocoa powder	0/8.03*/0	0/0*/0**	i/i*/-**	0/0*/0**	0/0*/0**	i/-*/-**

Dilution applied	Number of PCR results obtained when applying the dilution for Standard and ISO protocols
*=Lysate 1 :3	7
**=Enrichment 1 :10	14
***=Lysate 1:3 of enrichment 1:10	3
Total	24

Extension study

Sample N°	Product	Standard protocol						ISO Specific protocol					
		PCR Multi Dose			PCR Unit Dose			PCR Multi Dose			PCR Unit Dose		
		Cp	Tm	Result	Cp	Tm	Result	Cp	Tm	Result	Cp	Tm	Result
3071	Dried basil	0/0*/0**	0/0*/0**	i/i*/-**	0/0*/0**	0/0*/0**	i/i*/-**	0/0*/0**	0/0*/0**	i/i*/-**	0/0*/0**/0***	0/0*/0**/0***	i/i*/i**/-***
3072	Dried herbs	0/0*/0**	0/0*/0**	i/i*/-**	0/0*/0**	0/0*/0**	i/i*/-**	0/0*/0**	0/0*/0**	i/i*/-**	0/0*/0**/0***	0/0*/0**/0***	i/i*/i**/-***
3073	Paprika							33.48	65.87	+	0/32.4*	0/65.46*	i/+*
3074	Turmeric							33.91	65.89	+	0/34.18*	0/66.26*	i/+*
3075	Curry							0/0*/0**	0/0*/0**	i/-*/-*	0/0*	0/0*	i/-*
3076	Dried thyme	0/0*/29.92**	0/0*/66.5**	i/i*/+**	0/0*/33.3**	0/0*/66.36**	i/i*/+**	0/0*/31.98**	0/0*/66.38**	i/i*/+**	0/0*/0**/32.5***	0/0*/0**/66.26***	i/i*/i**/+***
4245	Baby leaves	0	0	-	0/0*	0/0*	i/-*						
4265	Cocoa powder	0/0*/0**	0/0*/0**	i/i*/-**	0/0*/0**	0/0*/0**	i/i*/-**	0/0*/0**	0/0*/0**	i/-*/-**	0/0*/0**/0***	0/0*/0**/0***	i/i*/i**/-***
4266	Cocoa powder	0/0*/0**	0/0*/0**	i/i*/-**	0/0*/0**	0/0*/0**	i/i*/-**	0/0*/0**	0/0*/0**	i/-*/-**	0/0*/0**/0***	0/0*/0**/0***	i/i*/i**/-***
4267	Cocoa powder	0/0*/0**	0/0*/0**	i/i*/-**	0/0*/0**	0/0*/0**	i/i*/-**	0/27.53*/28.2**	0/27.53*/66.6*	i/+*/+* *	0/0*/0**/29.57***	0/0*/0**/66.22***	i/i*/i**/+***
4269	Dark chocolate tablet	0	0	-	0/0*	0/0*	i/-*						
4270	Cocoa bean	0/0*/0****	0/0*/0****	i/i*/-****	0/0*/0****/0°	0/0*/0****/0°	i/i*/i****/-°						
4694	Cocoa powder	0/0*/35.01**	0/0*/66.49**	i/-*/+**	0/0*/35.59**	0/0*/66.19**	i/-*/+**	0/35.92*	0/65.31*	i/+*	0/0*/0**	0/0*/0**	i/i*/-**
4695	Cocoa powder	0/0*/35.82**	0/0*/66.89**	i/i*/+**	0/0*/0**	0/0*/0**	i/i*/-**	0/0/0*	0/0/0*	i/-/-*	0/0*/0**	0/0*/0**	i/i*/-**
4696	Tarragon	0/0*/30.94**	0/0*/66.08**	i/i*/+**	0/0*/33.9**	0/0*/65.99**	i/i*/+**	0/0/36.17*/35.9**	0/0/66.81*/66.09**	i/-/+*/+**	0/0*/35.49**	0/0*/65.51**	i/i*/+**
4697	Oregano	0/36.56*/0**	0/61.95*/0**	i/+*/-**	0/0*/0**/0***	0/0*/0**/0***	i/i*/i**/-***	0/33.78*/0**	0/66.09*/0**	i/+*/i**	0/0*/0**/0***	0/0*/0**/0***	i/i*/i**/-***
4698	Salsa spices							0	65.47	+	0/34.67*	0/66.05*	i/+*
4699	Chinese spices	0	0	-	0/0	0/0	i/-	0	0	-	0/0*	0/0*	i/-*
4984	Black chocolate tablets	23.7	66.04	+	0/0/22.93	0/0/66.72	i/i/+*						
4985	Black chocolate tablets	37.32	60.44	+	0/0/26.41	0/0/66.14	i/i/+*						
4986	Black chocolate tablets	33.48	66.08	+	0/0/34.76	0/0/66.02	i/i/+*						
5214	Egg yolk powder	0	0	-	0/0/0*	0/0/0*	i/-/-*						
5620	Tarragon	0/0*/0**	0/0*/0**	i/-*/-**	0/0*/0**	0/0*/0**	i/i*/-**	0/0*/0**	0/0*/0**	i/-*/-**	0/0*/0**	0/0*/0**	i/i*/-**
5621	Cocoa powder	0/0*/0**	0/0*/0**	i/-*/-**	0/0*/0**	0/0*/0**	i/i*/-**	0/0*/0**	0/0*/0**	i/-*/-**	0/0*/0**	0/0*/0**	i/-*/-**
1592	Sausage stuffing	30.59	66.36	+	0/30.59/32.43*	0/66.19/66.42*	i/+*/+*	0	0	-	0/0	0/0	i/-

Sample N°	Product	Protocol	PCR Multi Dose			PCR Unit Dose		
			Cp	Tm	Result	Cp	Tm	Result
7049	Fat reduced cocoa powder	(4)	0	0	-	0/0*	0/0*	i/-*
4488	Skim milk powder	(5)	27.49	65.45	+	0/26.84*	0/65.34*	i/+*
17195	Skim milk powder	(5)	31.46	65.04	+	0/30.81*	0/65.02*	i/+*
7876	Skim milk powder	(5)	0	0	-	0/0*	0/0*	i/-*
7877	Skim milk powder	(5)	0	0	-	0/0*	0/0*	i/-*
7880	Skim milk powder	(5)	0	0	-	0/0*	0/0*	i/-*
6146	Infant cereals with probiotics (5.0.10 ⁵ CFU/g)	(7)	0	0	-	0/0*	0/0*	i/-*
2646	Infant formula without probiotics	(8)	0/0	0/0	i/-	0/0*/0****	0/0*/0****	i/i*/-****
3753	Infant cereals without probiotics	(8)	0	0	-	0/0*	0/0*	i/-*
3799	Infant formula with probiotics (7.2.10 ⁴ CFU/g)	(8)	0	0	-	0/0*	0/0*	i/-*
4388	Infant formula with probiotics	Standard	0/0*/0****	0/0*/0****	i/i*/-****	0	0	-
4730	Pasteurized egg yolk	Standard	0/0	0/0	i/-*	0	0	-
5213	Whole egg powder	Standard	0/0	0/0	i/-*	0	0	-

Dilution applied	Number of PCR results obtained when applying the dilution	
	Multi Dose	Unit Dose
*=Lysate 1:3	14	21
**=Enrichment 1:10	11	14
***=Lysate 1:3 of enrichment 1:10	0	8
****=Lysate 1:5	2	1
°=Lysate 1:10	0	1
None	2	4
Total	29	49

For an incubation at 37°C, 24 inhibitions were initially observed (multi-dose kit); 29 were obtained for this extension study (multi-dose kit) while 49 were observed using the unit dose kit.

The number of PCR inhibitions is higher with the unit dose kit; this is linked to the modification of the software version (V3.0) (negative threshold on the height of the peak increased for the internal control) and to the largest sample volume (10 µL instead of 5 µL).

4.2.2 RLOD

During the presentation of the extension project, it was asked to test again the lysates prepared for the raw milk RLOD determination (general protocol - incubation at 37°C). The raw data are provided in **Appendix 8**.

The RLOD calculations were performed using the Excel spreadsheet available at <http://standards.iso.org/iso/16140> - RLOD version 4 (2024-01-10). The RLOD are given in Table 28.

Table 28 – Presentation of RLOD before and after confirmation of the alternative method results

Matrix / strain pair	AL	RLOD [95% confidence limit]
Multi-dose - Initial validation study - Raw milk-Standard protocol-25g	1.5	1.546 [0.838;2.851]
Multi-dose - Extension study - Raw milk-Standard protocol-25g	1.5	1.232 [0.678; 2.240]
Unit-dose - Extension study - Raw milk-Standard protocol-25g	1.5	1.000 [0.560; 1.787]

The results obtained with the unit dose kit are better than those obtained with the multi-dose kit (3 additional confirmed positive results).

The RLOD is below the Acceptability Limit (AL) fixed at 1.5 for the raw milk matrix using the unit dose kit (RLOD = 1.000) while it was above the AL for the initial validation study using the multi dose kit (RLOD = 1.546).

4.2.3 Specificity

Lysates from inclusivity study which gave atypical T_m values were tested again using both PCR kits. The results are given in **Appendix 9**.

This concerns 8 strains tested with an enrichment step in BPW + acriflavin for 20 h at 37°C. Similar results were observed with both PCR kits.

5 INTER-LABORATORY STUDY

The inter-laboratory study is performed by multiple laboratories testing identical samples at the same time, the results of which are used to estimate alternative-method performance parameters.

5.1 Study organisation

Samples were sent to 14 laboratories. Ground beef (15 % fat) was contaminated by a *Salmonella* Typhimurium A00C060 strain isolated from ground beef. Samples were prepared and inoculated on Monday 23rd May 2016.

The targeted inoculation levels were the following:

- Level: 0 CFU/25 g,
- Level 1: 2 CFU/25 g, in order to provide as much fractional positive recovery data as possible,
- Level 2: 8 CFU/25 g.

Collaborative study laboratories and the expert laboratory carried out the analyses on Tuesday 24th May or Wednesday 25th May 2016 with the alternative and reference methods.

The kit multi doses format was used in this study.

5.2 Experimental parameters controls

5.2.1 Sample stability

> Contamination levels before inoculation

The contamination levels were the following (See Table 29):

Table 29 - Contamination levels

Level	Samples	Theoretical target level	True level (CFU/25 g sample)	Low limit / CFU/25 g sample	High limit / CFU/25 g sample
Level 0	4-7-9-10-13-18-23-24	/	/	/	/
Low level	2-3-8-12-15-17-19-21	2	2.5	2.1	3.0
High level	1-5-6-11-14-16-20-22	8	11.4	9.5	13.7

> **Strain stability during transport**

In order to detect the presence of *Salmonella* spp., the reference method was carried out on five portions (25 g) before the inoculation. All the results were negative.

Three samples inoculated at a high level (100 CFU/g) were tested for enumeration after 24 h and 48 h storage. Three samples inoculated at a low level were tested for detection after 24 h and 48 h storage (See Table 30).

Table 30 – *Salmonella* spp. stability in the matrix

Day of analysis	<i>Salmonella</i> spp. detection		Mesophilic aerobic flora (CFU/g)
	CFU/g	Detection/25 g	
Day 0	200	+	8.9 10 ²
	150	+	
	130	+	
Day 1	180	-	1.6 10 ³
	140	+	
	150	+	
Day 2	70	+	2.7 10 ³
	150	+	
	110	+	

No evolution was observed during storage for 48 h at 5°C ± 3°C.

5.2.2 **Logistic conditions**

Temperature conditions are given in Table 31.

Table 31 - Sample temperatures at receipt

Laboratories	Temperature measured by the probe (°C)	Temperature measured at receipt (°C)	Receipt date and time	Analysis date
A	1.0	4.0	24/05/16 10h30	25/05/2016
B	1.0	6.5	24/05/16 10h30	24/08/2016
C	2.5	3.4	24/05/16 08h30	25/05/2016
D	1.5	6.3	24/05/16 08h30	24/05/2016
E	3.5	3.9	24/05/16 10h50	25/05/2016
F	2.5	5.5	24/05/16 08h30	24/05/2016
G	/	/	27/05/16 18h10	/
H	2.5	4.1	24/05/16 09h30	25/05/2016
I	1.0	1.3	24/05/16 09h50	25/05/2016
J	1.5	4.5	24/05/16 10h27	24/05/2016
K	4.5	<i>Not measured</i>	24/05/16 12h38	<i>Not precised</i>
L	4.5	6.5	24/05/16 10h00	25/05/2016
M	<i>Not received</i>	<i>Not measured</i>	24/05/16 12h58	25/05/206
N	RAF	3.2	24/05/16 09h00	24/05/2016

All the samples were delivered on time and in appropriate conditions except for Lab G which received its samples on day 4. They did not carry out the analyses. Temperatures during shipment and at receipt were all correct.

5.3 Results analysis

5.3.1 Expert laboratory results

The results obtained by the expert laboratory are given in Table 32.

Table 32 – Results obtained by the expert Lab.

Level	Reference method	Alternative method
L0	0/8	0/8
L1	7/8	8/8
L2	8/8	8/8

5.3.2 Results observed by the collaborators

> Aerobic mesophilic flora enumeration

The enumeration of the mesophilic aerobic flora varies from $9.1 \cdot 10^2$ to $4.3 \cdot 10^6$ CFU/g.

> **Salmonella spp. detection**

13 collaborators participated to the study. The results obtained are provided in Table 33 (reference method) and Table 34 (alternative method).

**Table 33 - Positive results by the reference method
(ALL the collaborators)**

Collaborators	Contamination level		
	L0	L1	L2
A	0	7	8
B	0	7	8
C	0	8	8
D	0	7	8
E	0	8	8
F	0	8	8
H	1	8	8
I	0	7	8
J	0	8	8
K	0	8	8
L	0	8	8
M	6	8	8
N	0	8	8
Total	P₀ = 7	P₁ = 100	P₂ = 104

**Table 34 - Positive results (before and after confirmation)
by the alternative method (ALL the collaborators)**

Collaborators	Contamination level					
	L0		L1		L2	
	before confirmation	after confirmation	before confirmation	after confirmation	before confirmation	after confirmation
A	0	0	6	6	8	8
B	0	0	8	8	8	8
C	0	0	7	7	8	8
D	0	0	8	8	8	8
E	0	0	8	8	8	8
F	0	0	8	8	8	8
H	2	2	7	7	8	8
I	0	0	8	8	8	8
J	3	0	5	5	6	8
K	0	0	7	7	8	8
L	0	0	8	8	8	8
M	0	0	8	8	8	8
N	0	0	8	8	8	8
Total	P₀ = 5	CP₀ = 2	P₁ = 96	CP₁ = 96	P₂ = 102	CP₂ = 104

According to the AFNOR technical rules, it is possible to include the results from a collaborator with a maximum of one cross contamination per method at Level 0. For this study, this rule was applied and results from 3 labs were not kept: H, J and M.

Lab H obtained one positive result on control samples with the reference method and two positive results with the alternative method.

The technician from Lab J was disturbed² during the alternative method manipulations; this could explain the results observed for the first run. It was asked that this lab run twice again the PCR tests from lysates stored at -20°C for the following samples: J10, J13, J23, J15, J17, J20 and J22. The expected results were then observed.

Lab M obtained 6 positive samples with the reference method on control samples.

The results from 10 Labs were kept: A-B-C-D-E-F-I-K-L-M.

5.3.3 Results of the collaborators retained for interpretation

The results obtained with the 10 individual collaborators in the inter-laboratory study are summarised in Tables 35 and 36.

**Table 35 – Positive results by the reference method
(without Labs H, J, & M)**

Collaborators	Contamination level		
	L0	L1	L2
A	0	7	8
B	0	7	8
C	0	8	8
D	0	7	8
E	0	8	8
F	0	8	8
I	0	7	8
K	0	8	8
L	0	8	8
N	0	8	8
Total	P₀=0	P₁=76	P₂=80

² Somebody spoke to him when he was filling the strip tubes

**Table 36 – Positive results (before and after confirmation)
by the alternative method (without Labs H, J & M)**

Collaborators	Contamination level					
	L0		L1		L2	
	before confirmation	after confirmation	before confirmation	after confirmation	before confirmation	after confirmation
A	0	0	6	6	8	8
B	0	0	8	8	8	8
C	0	0	7	7	8	8
D	0	0	8	8	8	8
E	0	0	8	8	8	8
F	0	0	8	8	8	8
I	0	0	8	8	8	8
K	0	0	7	7	8	8
L	0	0	8	8	8	8
N	0	0	8	8	8	8
Total	P₀ =0	C P₀ =0	P₁ =76	CP₁ =76	P₂ =80	CP₂ =80

5.4 Calculation and interpretation

5.4.1 Calculation of the specificity percentage (SP)

The percentage specificities (SP) of the reference method and of the alternative method, using the data after confirmation, based on the results of level L0 are the following (See Table 37).

Table 37 - Percentage specificity

Specificity for the reference method	$SP_{ref} = \left(1 - \left(\frac{P_0}{N_-}\right)\right) \times 100 \% =$	100%
Specificity for the alternative method	$SP_{alt} = \left(1 - \left(\frac{CP_0}{N_-}\right)\right) \times 100 \% =$	100%

N: number of all L0 tests

P₀ = total number of false-positive results obtained with the blank samples before confirmation

CP₀ = total number of false-positive results obtained with the blank samples

5.4.2 Calculation of sensitivity (SE_{alt}), sensitivity for the reference method (SE_{ref}), relative trueness (RT, false positive ratio for the alternative method (FPR) and false negative ratio for the alternative method (FNR)

Fractional positive results were obtained for the low inoculation level (L1). This inoculation level was retained for calculation.

A summary of the results of the collaborators retained for interpretation and obtained with the reference and the alternative methods for Level 1 is provided in Table 38.

Table 38 – Summary of results for all collaborators obtained with the reference and alternative methods for Level 1

Response	Reference method positive (R+)	Reference method negative (R-)
Alternative method positive (A+)	Positive agreement (A+/R+) PA = 73	Positive deviation (R-/A+) PD = 3
Alternative method negative (A-)	Negative deviation (A-/R+) TND = 3	Negative agreement (A-/R-) TNA = 1

Based on the data summarised in Table 38, the sensitivity values of the alternative and reference methods, as well as the relative trueness and false positive ratio and false negative ratio for the alternative method taking account of the confirmations, are the following (See Table 39):

Table 39 - Sensitivity, relative trueness, false positive and false negative ratio percentages

		Level L1
Sensitivity for the alternative method	$SE_{alt} = \frac{(PA + PD)}{(PA + TND + PD)} \times 100 \%$	96.2%
Sensitivity for the reference method	$SE_{ref} = \frac{(PA + TND)}{(PA + TND + PD)} \times 100 \%$	96.2%
Relative trueness	$RT = \frac{(PA + TNA)}{N} \times 100 \%$	92.5%
False positive ratio for the alternative method (unpaired evaluation)	$FPR = \frac{PA_{FP(alt)} + PD_{FP(alt)}}{TNA} \times 100 \%$	0%
False negative ratio for the alternative method (unpaired evaluation)	$FNR = \frac{NA_{FN(alt)} + ND_{FN(alt)}}{PA + TND + PD}$	0.000

5.4.3 Interpretation of data

For Level 1, the negative deviations are listed in Table 40 and the positive deviations in Table 41.

Table 40 – Negative deviations

Lab	Sample N°
A	A2
C	C12
K	K2

The presence of *Salmonella* was not confirmed in these 3 samples.

Table 41 – Positive deviations

Lab	Sample N°
B	B2
D	D3
I	I17

For an **unpaired study design**, the difference between (TND – PD) is calculated for the level(s) where fractional recovery is obtained (so L_1 and possibly L_2). The observed value found for (TND – PD) shall not be higher than the AL. The AL is defined as $[(TND - PD)_{max}]$ and calculated per level where fractional recovery is obtained as described below using the following three parameters:

$$(p+)_{ref} = \frac{P_{x(ref)}}{N_{x(ref)}}$$

where

$P_{x(ref)}$ = is number of samples with a positive result obtained with the reference method at level x (L_1 or L_2) for all laboratories

$N_{x(ref)}$ = is number of samples tested at level x (L_1 or L_2) with the reference method by all laboratories

$$(p+)_{alt} = \frac{CP_{x(alt)}}{N_{x(alt)}}$$

where

$CP_{x(alt)}$ = is number of samples with a confirmed positive result obtained with the alternative method at level x (L_1 or L_2) for all laboratories

$N_{x(alt)}$ = is number of samples tested at level x (L_1 or L_2) with the alternative method by all laboratories

$$(TND - PD)_{max} = \sqrt{3N_{x(ref)} \times ((p+)_{ref} + (p+)_{alt} - 2((p+)_{ref} \times (p+)_{alt}))}$$

where

$N_{x(ref)}$ = is number of samples tested for level x (L_1 or L_2) with the reference method by all laboratories.

The AL is not met when the observed value is higher than the AL. When the AL is not met, investigations should be made (e.g. root cause analysis) in order to provide an explanation of the observed results. Based on the AL and the additional information, it is decided whether the alternative method is regarded as not fit for purpose. The reasons for acceptance of the alternative method when the AL is not met shall be stated in the study report.

The calculations are the following, according to the ISO 16140-2 (See Table 42).

Table 42 - Calculations

N_x	80
$(p+)_{ref}$	1.0
$(p+)_{alt}$	1.0
AL = (ND – PD) max	4.77
ND - PD	0
Conclusion	TND-PD<AL

The ISO 16140-2 requirements are fulfilled as (TND - PD) is lower than the AL.

There is indeed no difference between the sensitivity of the compared methods, and the alternative method complies with the reproducibility conditions.

5.4.4 Evaluation of the LOD_{50%} and RLOD between laboratories

The LOD_{50%}, was calculated using the EN ISO 16140-2 Excel spreadsheet available at https://standards.iso.org/iso/16140/-2/ed-1/en/amd/1/PODLOD-interlab_ver2.xlsm.

The RLOD is defined as the ratio of the LODs of the alternative method and the reference method: **RLOD = LOD_{alt}/LOD_{ref}**. (see Table 43).

Table 43 - RLOD

Method	LOD _{50%}	RLOD
Reference	0.58	1.00
Alternative	0.58	

6 CONCLUSION

The **method comparison study conclusions** are:

- In the sensitivity study, 21 categories were tested: 17 food categories, pet food, pet food for cat and dog, production environmental samples and primary productions samples.
One category was tested with two enrichment and lysis protocols (Category 18: Raw material and finished products from the chocolate industry).
Two categories were tested with or without applying the optional BACTVIAB PMAxx extraction protocol: chocolate and confectionaries and ingredients.
One category was tested with BACTVIAB PMAxx protocol (Category 21: pet food for cat and dog).
- The observed values for (TND - PD) and (TND + PD) for the 20 individual categories and for all the categories meet the Acceptability Limits (observed values $\leq$ AL).
- The RLOD meets the Acceptability Limits (observed values $\leq$ AL) for all the matrix/strain pairs tested except for raw milk with standard protocol for which the RLOD (1.546) was just above the AL fixed at 1.5 (paired study design).
- It is possible to store:
 - * The enrichment broth for 72 h at $5^{\circ}\text{C} \pm 3^{\circ}\text{C}$ for food and pet food categories (except for the category Pet food - 375 g sample size tested with the specific protocol 6).
 - * The lysates for 72 h at $5^{\circ}\text{C} \pm 3^{\circ}\text{C}$ for all the tested categories.
- For the inclusivity study three protocols have been tested:
 - * Protocol dedicated to raw meat (short protocol with incubation at 41.5°C): 6 target strains gave positive PCR results only for 24 h incubation time when incubated in buffered peptone water. These strains gave positive PCR tests after 8 h incubation time when tested in presence of a food matrix (milk or ground beef).
 - * Protocol dedicated to primary production samples: satisfying results were observed for 99 strains, one strain (*Salmonella* Luciana CIP 105626) was not detected even when adding matrix in the enrichment broth. Other strains belonging to the same group were detected using the primary production samples specific enrichment protocol.
 - * Protocol dedicated to raw material and finished products from the chocolate industry (BPW + BACTBOOST™.10 h incubation time, EGENE-UP® EASYPREP lysis): the 100 *Salmonella* strains tested gave the expected results.

- For the exclusivity study, no cross reaction was observed among the 30 non-target tested strains for the initial validation study.
- The alternative method allows a one-day screening of the negative samples for all categories except for primary production samples which requires two days-screening.
- The alternative method fulfils all the ISO 16140-2:2016, ISO 16140-2/A1 and AFNOR technical rules.

The **extension for the unit dose format conclusions** are:

- 1822 lysates were tested by both PCR kits (multi-dose and unit dose); 19 negative and 21 positive deviations were observed for all the categories and enrichment protocols combined. These results clearly showed that both kits gave similar results.
- The lysates for raw milk RLOD were tested again; better results were obtained with the unit dose kit.
- For inclusivity, the lysates from 8 strains were tested which gave atypical T_m values for the initial validation study; same results were obtained by both kits.
- The unit dose kit gave reliable results compared to the multi-dose kit.

The **inter-laboratory study conclusions** are:

The data and interpretations comply with the ISO 16140-2 (2016), ISO 16140-2/A1 (2024) requirements and AFNOR technical rules (Revision 12).

The GENE-UP® *Salmonella* method is considered equivalent to the ISO standard.

Quimper, 02 September 2025

Astrid CARIOU

Manager

Method performance in food microbiology

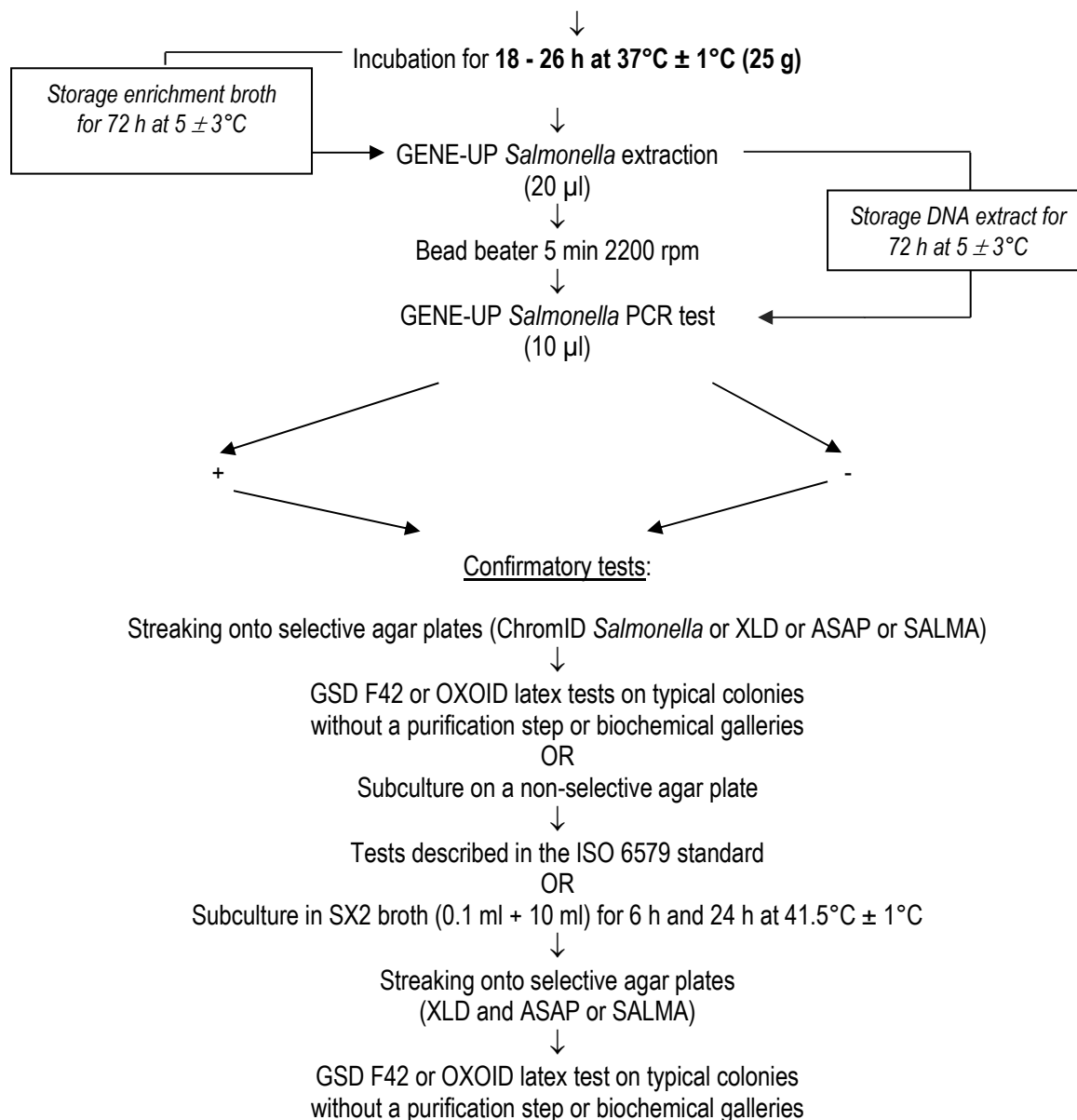


I hereby attest to the validation of the verification of the conformity of the report (opinion and interpretation).

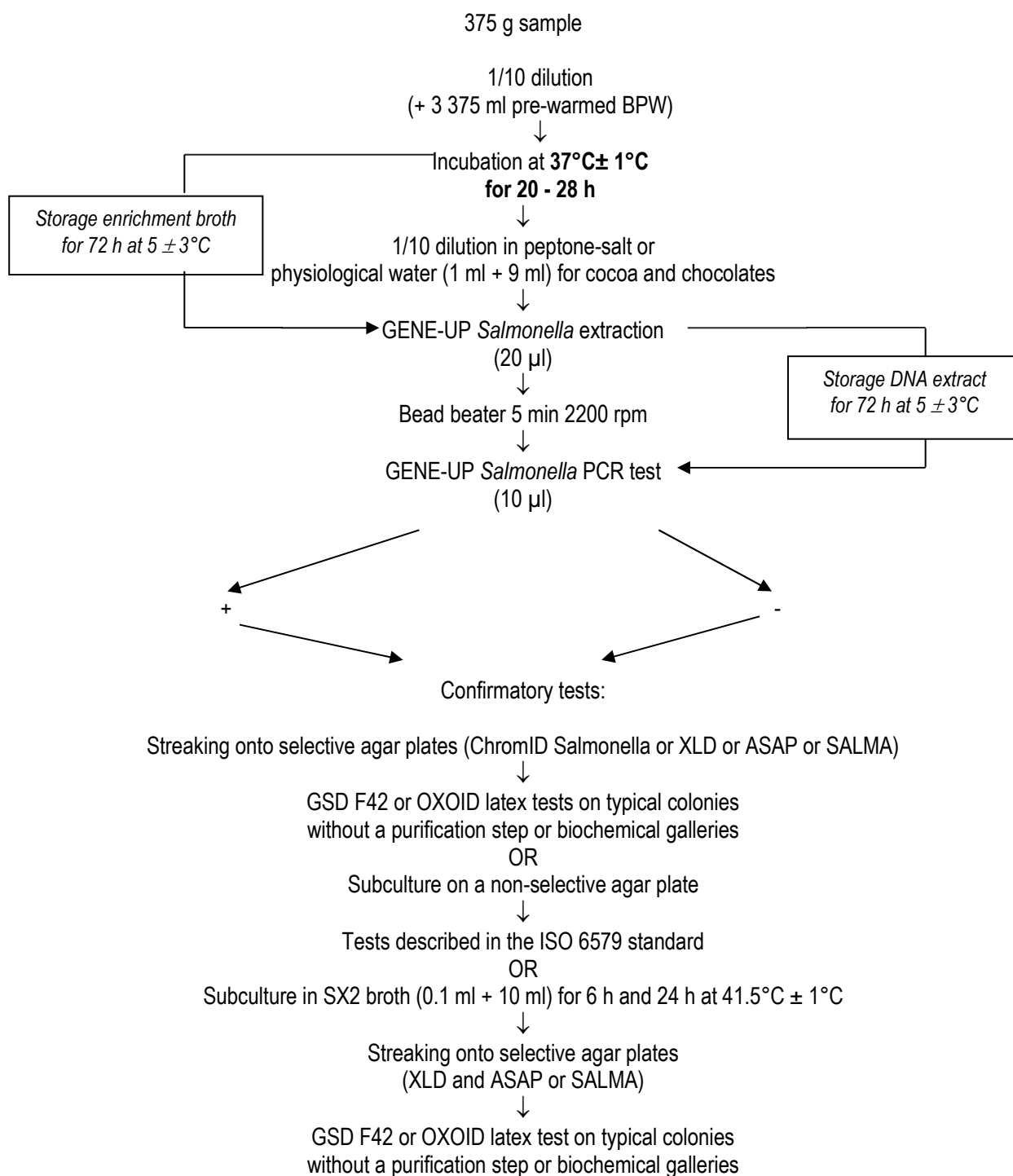


ISO 6579-1 Enrichment broth
Specific ingredients and foods (25 g sample size)

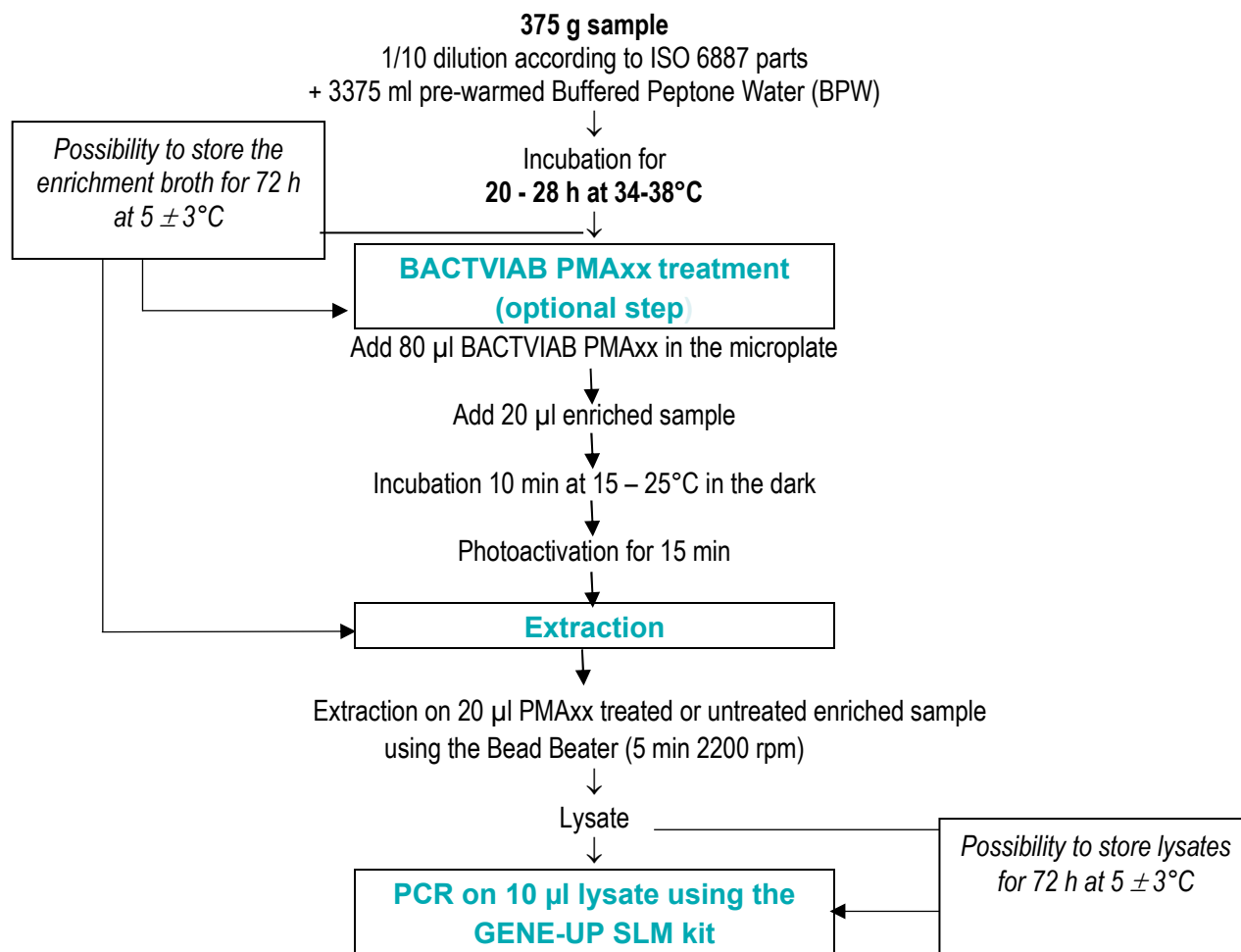
25 g sample + 225 ml BPW or specific preparation according to ISO 6887 parts



Specific protocol ④
Cocoa and chocolates
Milk powders, ingredients (*excluding whey protein concentrates*)



ISO protocol Ingredients



Confirmatory tests:

Streaking 10 µl onto selective agar plates (ChromID *Salmonella* or XLD or ASAP or SALMA)
OR

Subculture in SX2 broth (0.5 ml + 10 ml) for 6 h to 24 h at 41.5°C ± 1°C before
streaking onto selective agar plates (XLD or ASAP or SALMA)

↓

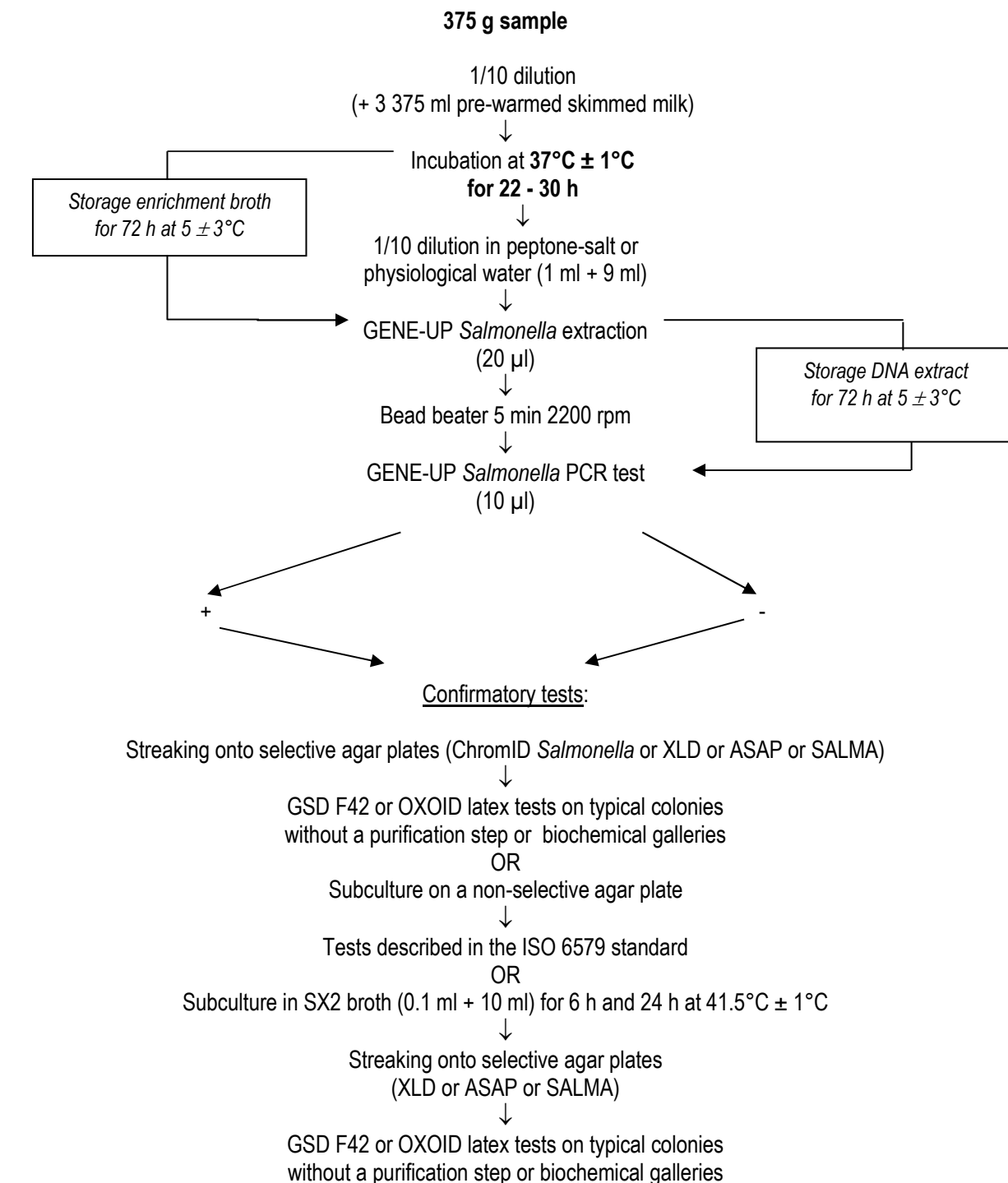
The typical colonies are confirmed by:

GSD F42 or OXOID latex test from Chromogenic agars

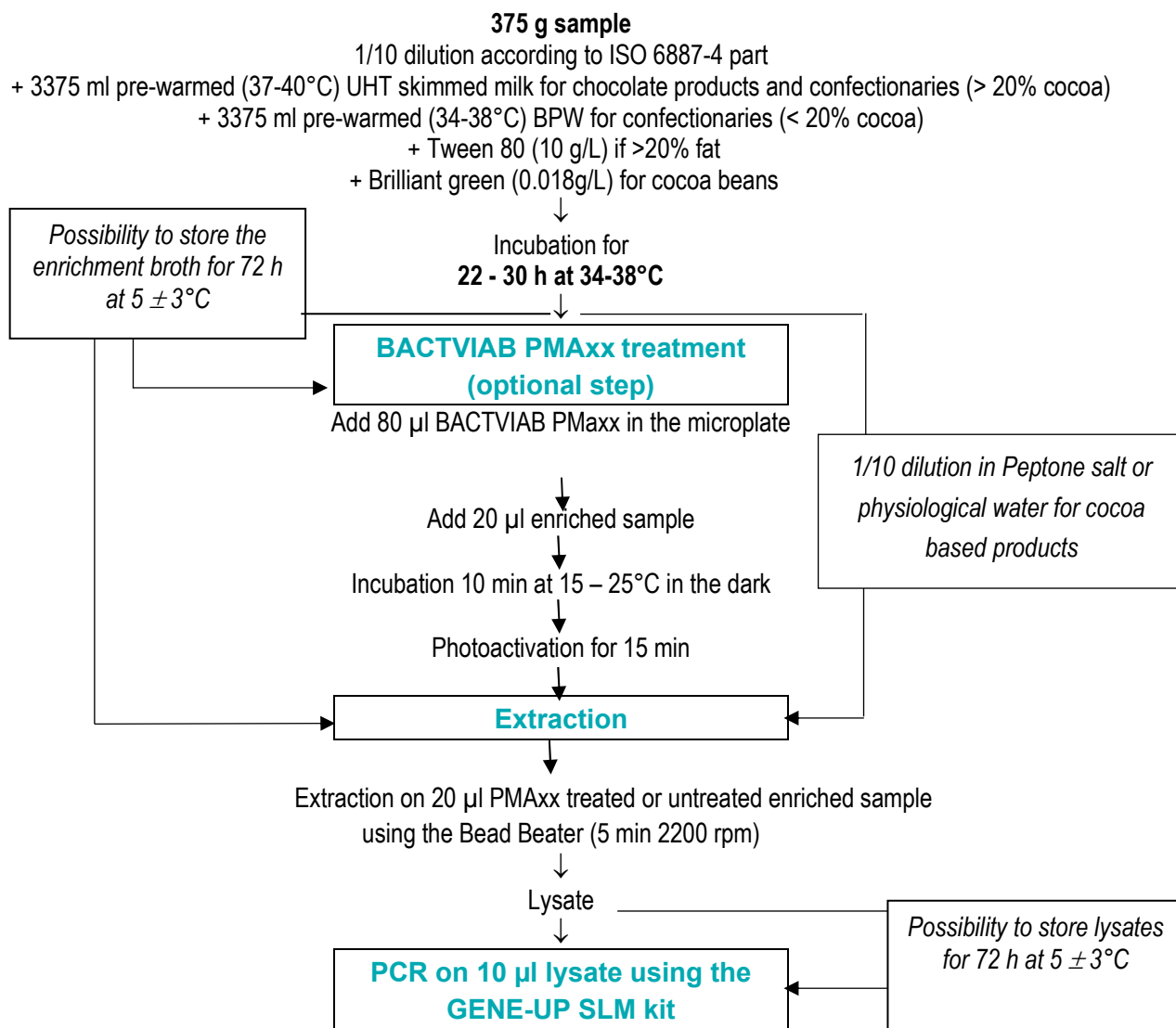
Or biochemical gallery without purification step from selective agar plates

Or the tests described in the standardized methods (CEN or ISO)

**ISO 6579-1 Enrichment broth
Cocoa and chocolates**



**ISO 6579-1 and ISO 6887-4 protocol
Chocolates and confectionaries**



Confirmatory tests:

Streaking 10 µl onto selective agar plates (ChromID *Salmonella* or XLD or ASAP or SALMA)

OR

Subculture in SX2 broth (0.5 ml + 10 ml) for 6 h to 24 h at 41.5°C ± 1°C before streaking onto selective agar plates (XLD or ASAP or SALMA)

↓

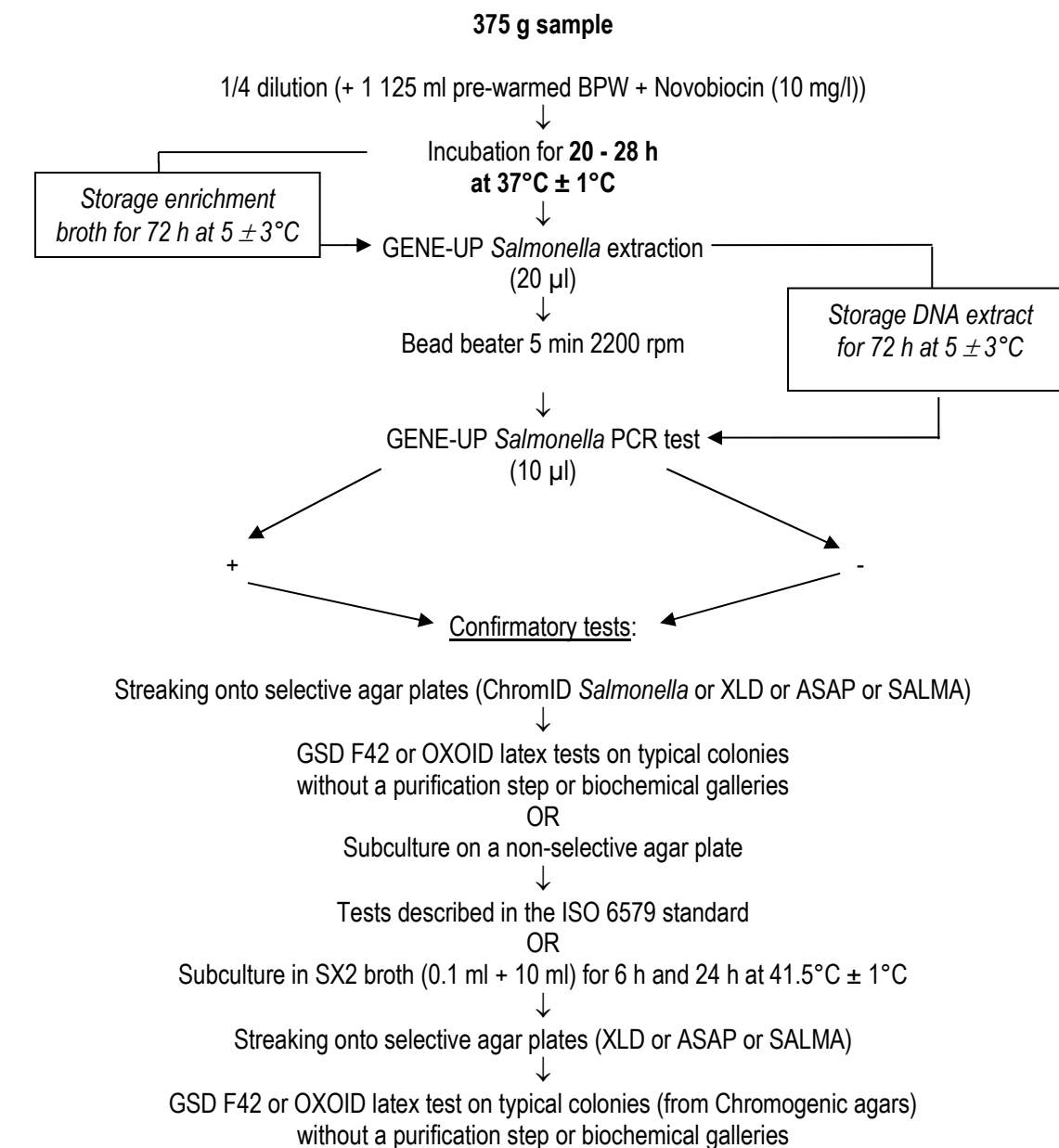
The typical colonies are confirmed by:

GSD F42 or OXOID latex test from Chromogenic agars

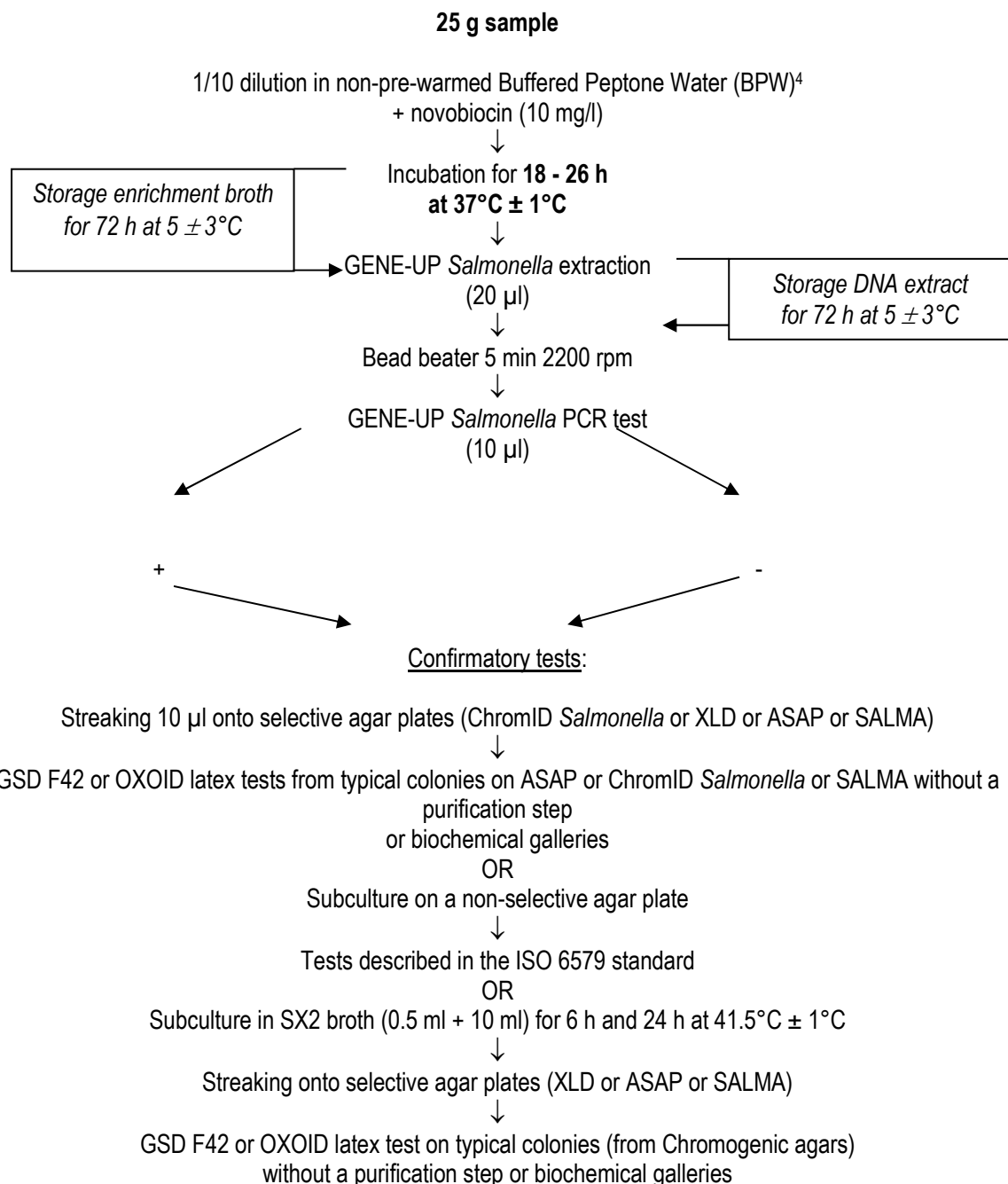
Or biochemical gallery without purification step from selective agar plates

Or the tests described in the standardized methods (CEN or ISO)

Specific protocol ⑤
Milk powders

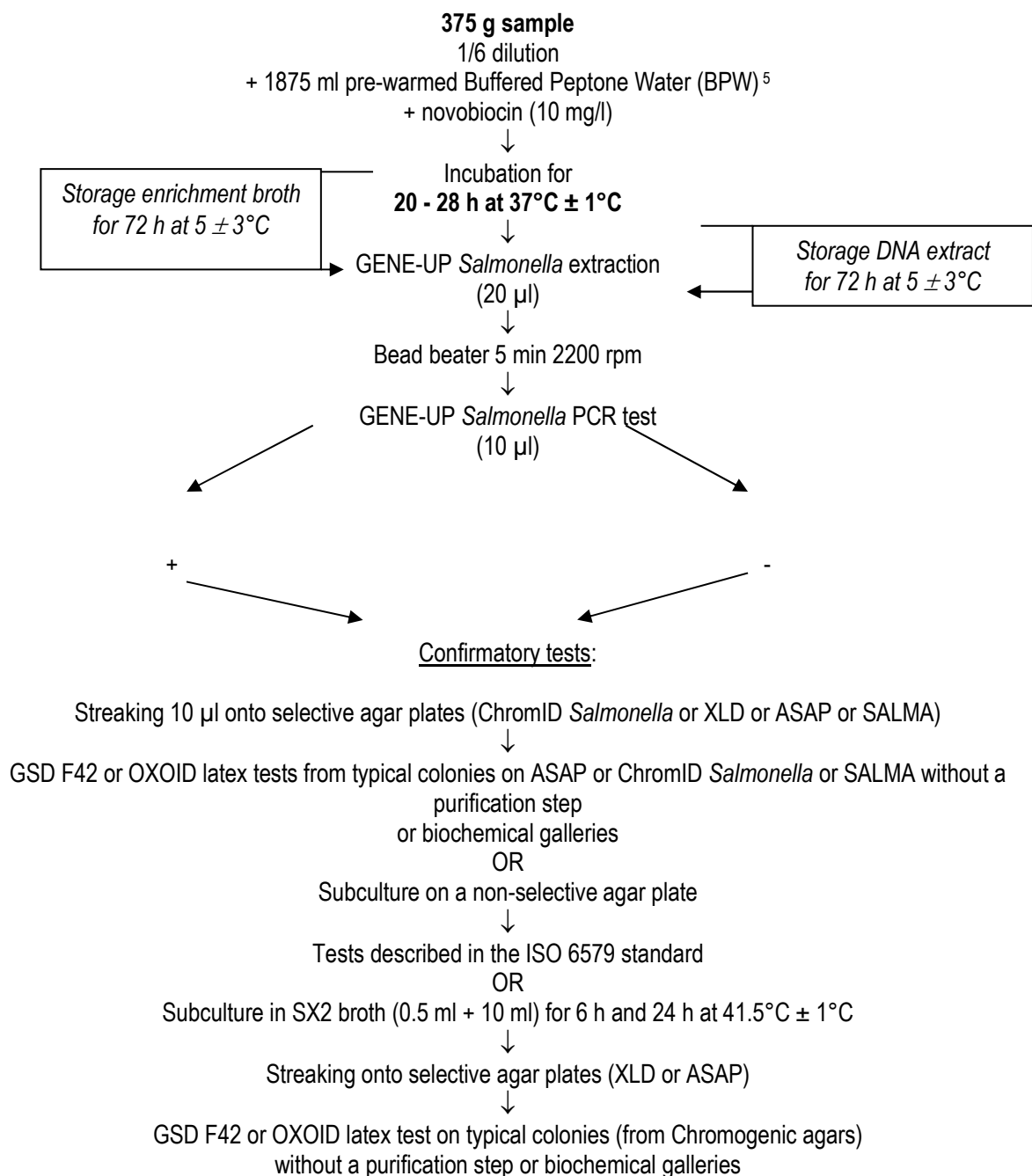


Specific protocol ⑦
Infant formula and infant cereals with probiotics



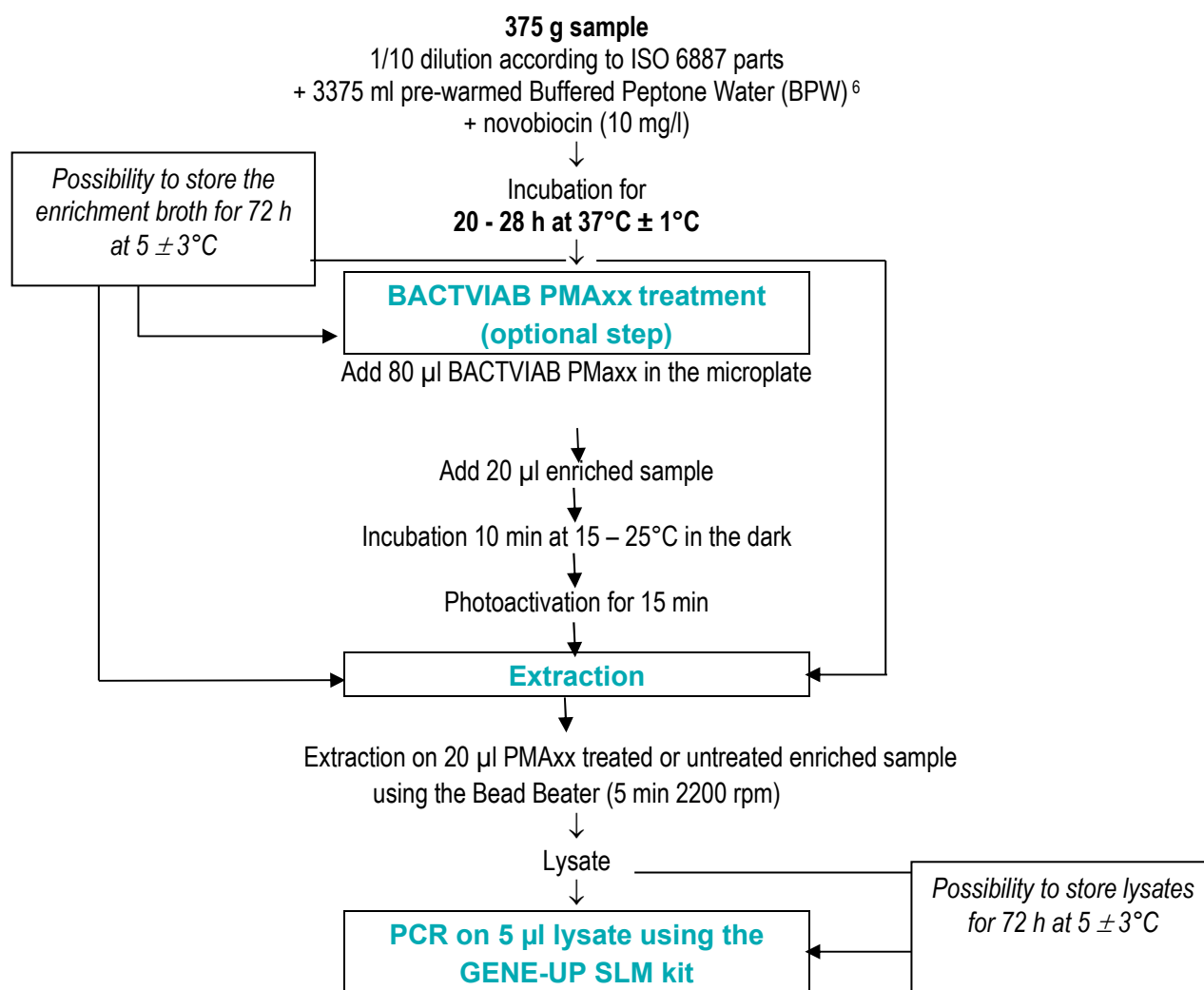
⁴ Addition of α-amylase for infant cereals (0.1 g/l)

Specific protocol ®
Milk powders, infant formula and infant cereals with or without probiotics including ingredients (excluding whey protein concentrates) (375 g test portion)



⁵ Addition of α-amylase for infant cereals (0.1 g/l)

Specific protocol ⑩
**Milk powders, infant formula and infant cereals with or without probiotics,
early life nutrition (375 g test portion)**



Confirmatory tests:

Streaking 10 µl onto selective agar plates (ChromID *Salmonella* or XLD or ASAP or SALMA)

OR

Subculture in SX2 broth (0.5 ml + 10 ml) for 6 h to 24 h at 41.5°C ± 1°C before
streaking onto selective agar plates (XLD or ASAP or SALMA)

↓

The typical colonies are confirmed by:

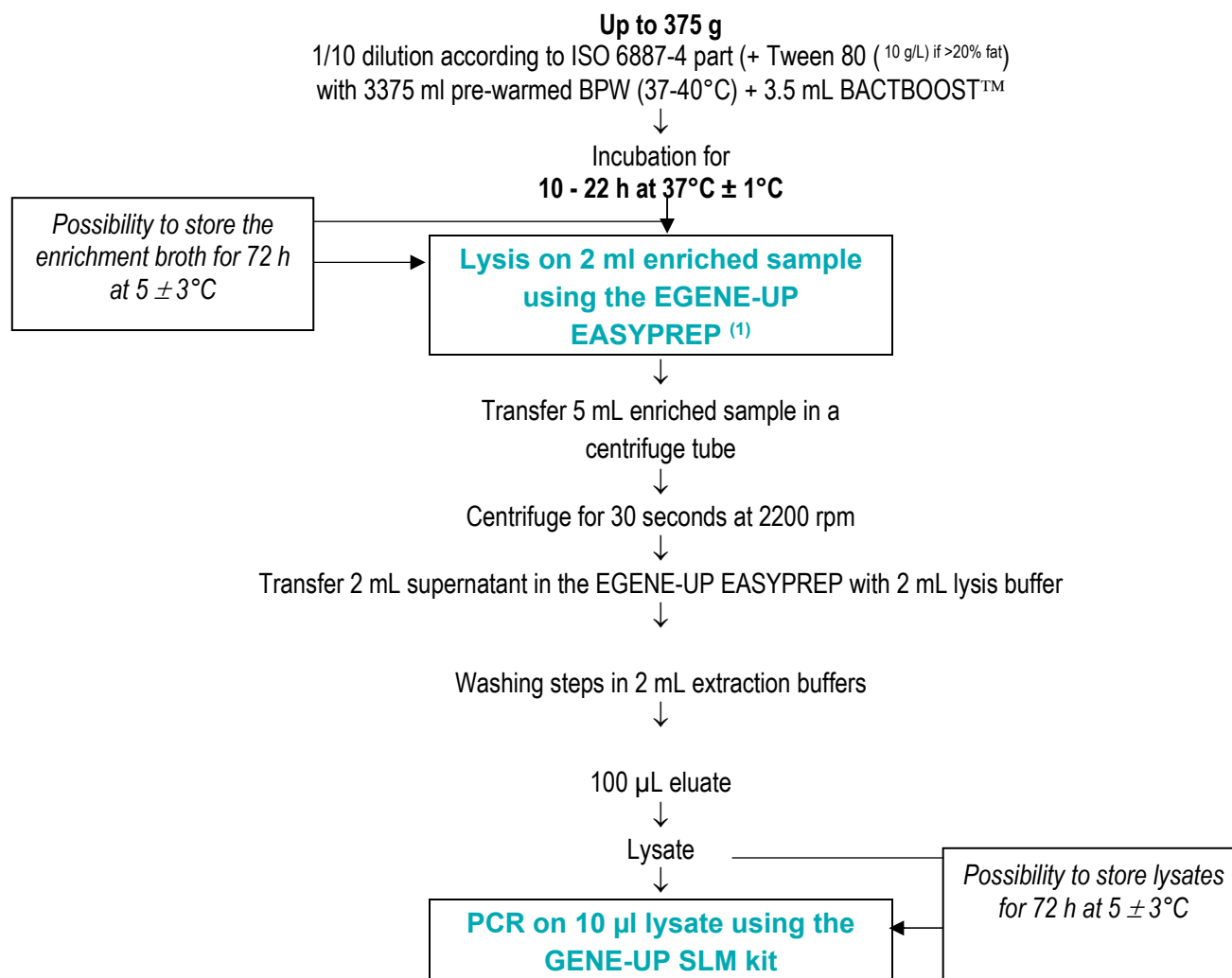
GSD F42 or OXOID latex test from Chromogenic agars

Or biochemical gallery without purification step from selective agar plates

Or the tests described in the standardized methods (CEN or ISO)

⁶ Addition of α-amylase for infant cereals (0.1 g/l)

Specific ⑪ protocol
Raw material and Finished products from the chocolate industry (375 g test portion)



Confirmatory tests:

Streaking 10 µl onto selective agar plates (ChromID *Salmonella* or XLD or ASAP or SALMA)

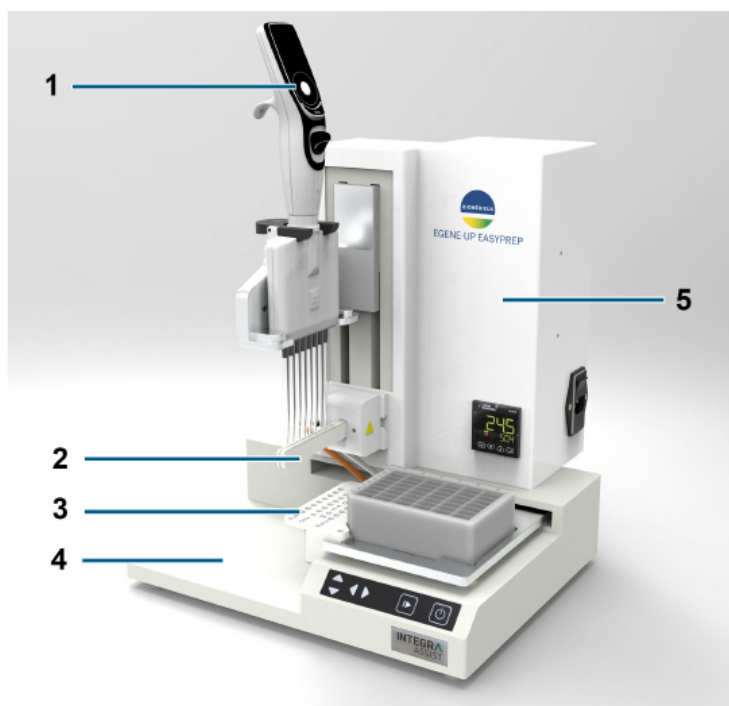
In case of no typical colony by direct streaking: subculture in SX2 broth (0.5 ml + 10 ml) for 6 h to 24 h
 at 41.5°C ± 1°C before streaking onto selective agar plates (XLD or ASAP or SALMA)

↓

The typical colonies are confirmed by:
 GSD F42 or OXOID latex test from Chromogenic agars
 Or biochemical gallery without purification step from selective agar plates
 Or the tests described in the standardized methods (CEN or ISO)

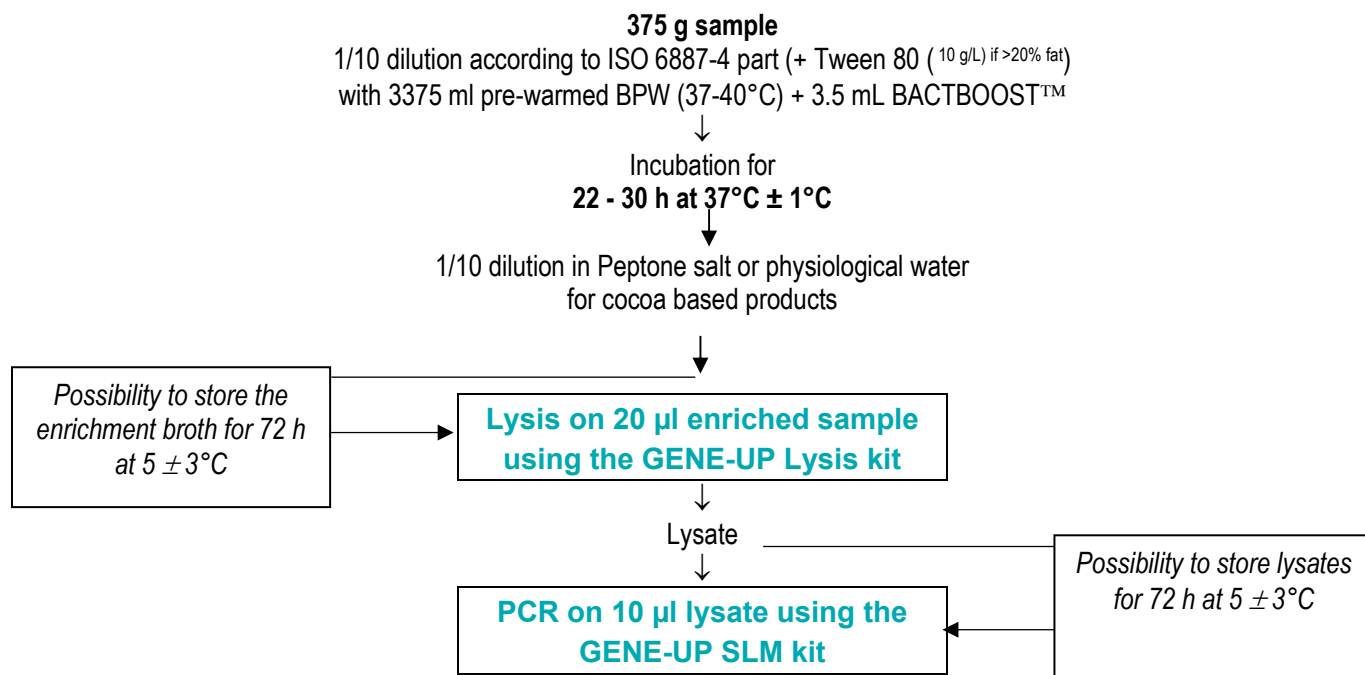
(1) EGENE-UP ESAYPREP

The EGENE-UP® EASYPREP solution is composed of the heating module (5), the magnetic bar (2) and the elution holder (3), and is used with the INTEGRA VIAFLO II or higher Electronic Pipette (1) and INTEGRA VIAFLO ASSIST platform (4).



1. INTEGRA VIAFLO II or higher Electronic Pipette
2. Magnetic bar
3. Elution holder
4. INTEGRA VIAFLO ASSIST
5. Heating module

Specific 12 protocol
Raw material and finished products from the chocolate industry (375 g test portion)



Confirmatory tests:

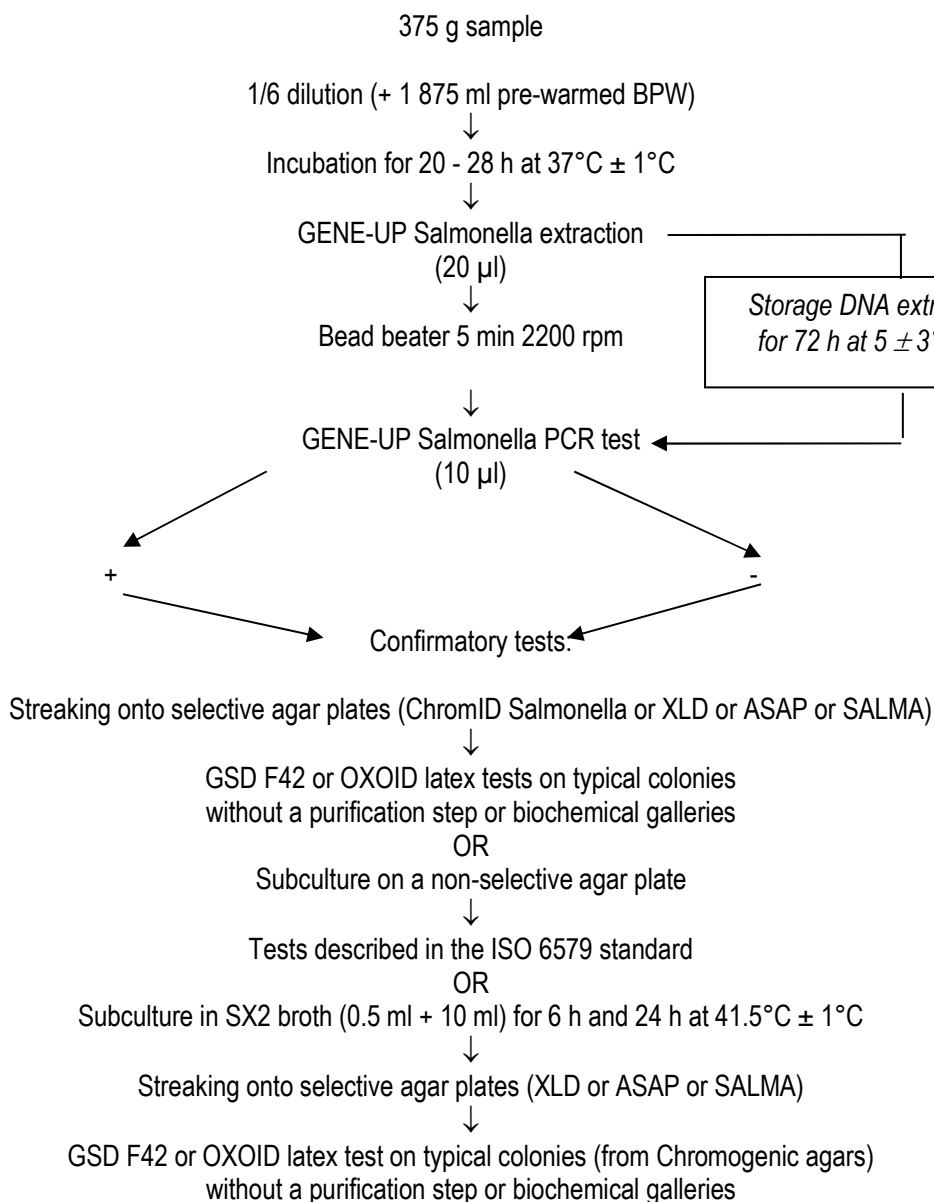
Streaking 10 µl onto selective agar plates (ChromID *Salmonella* or XLD or ASAP or SALMA)

In case of no typical colony by direct streaking: subculture in SX2 broth (0.5 ml + 10 ml) for 6 h to 24 h at 41.5°C ± 1°C before streaking onto selective agar plates (XLD or ASAP or SALMA)

↓

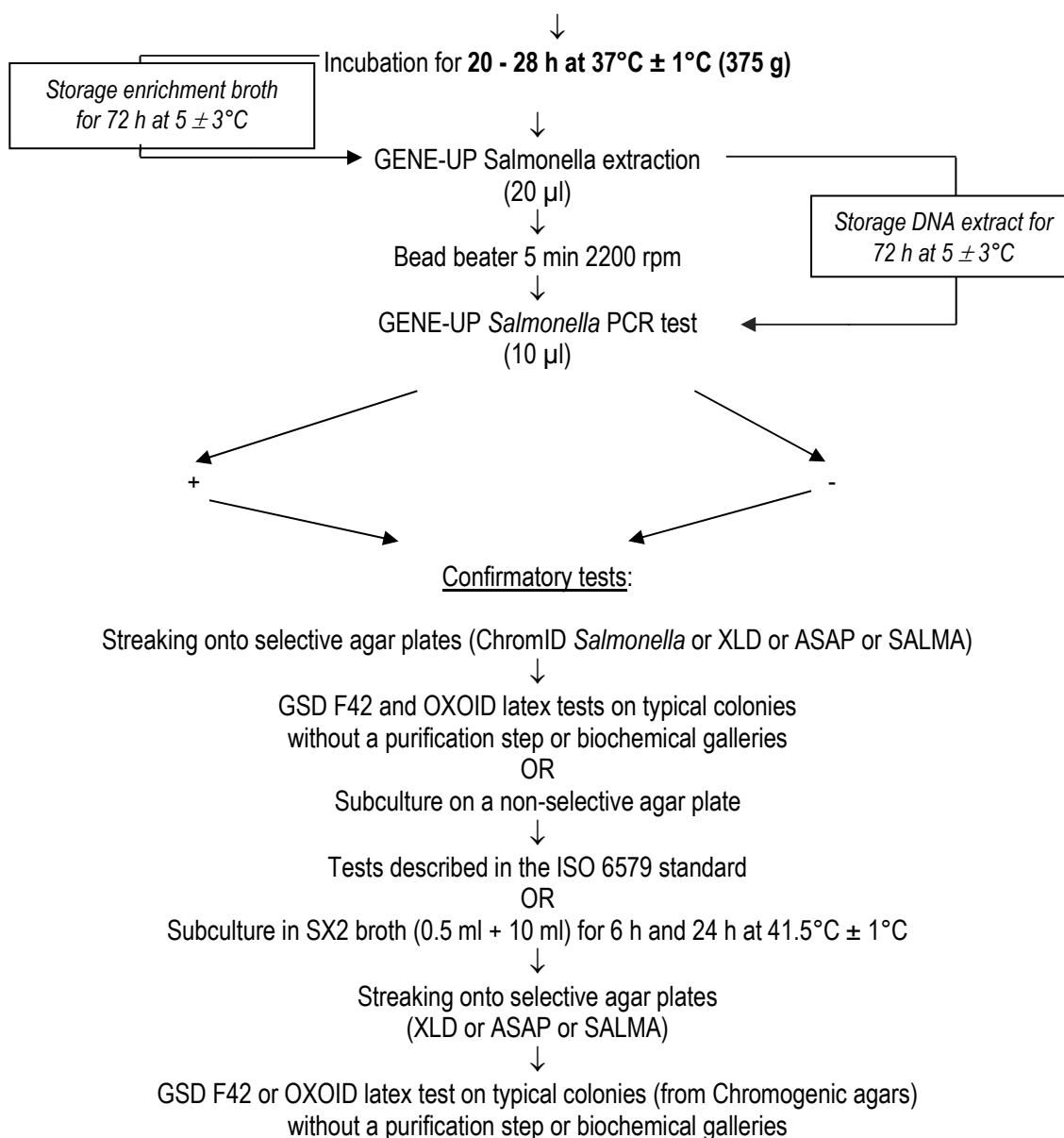
The typical colonies are confirmed by:
 GSD F42 or OXOID latex test from Chromogenic agars
 Or biochemical gallery without purification step from selective agar plates
 Or the tests described in the standardized methods (CEN or ISO)

**Specific protocol ®
Pet food (375 g test portion)**

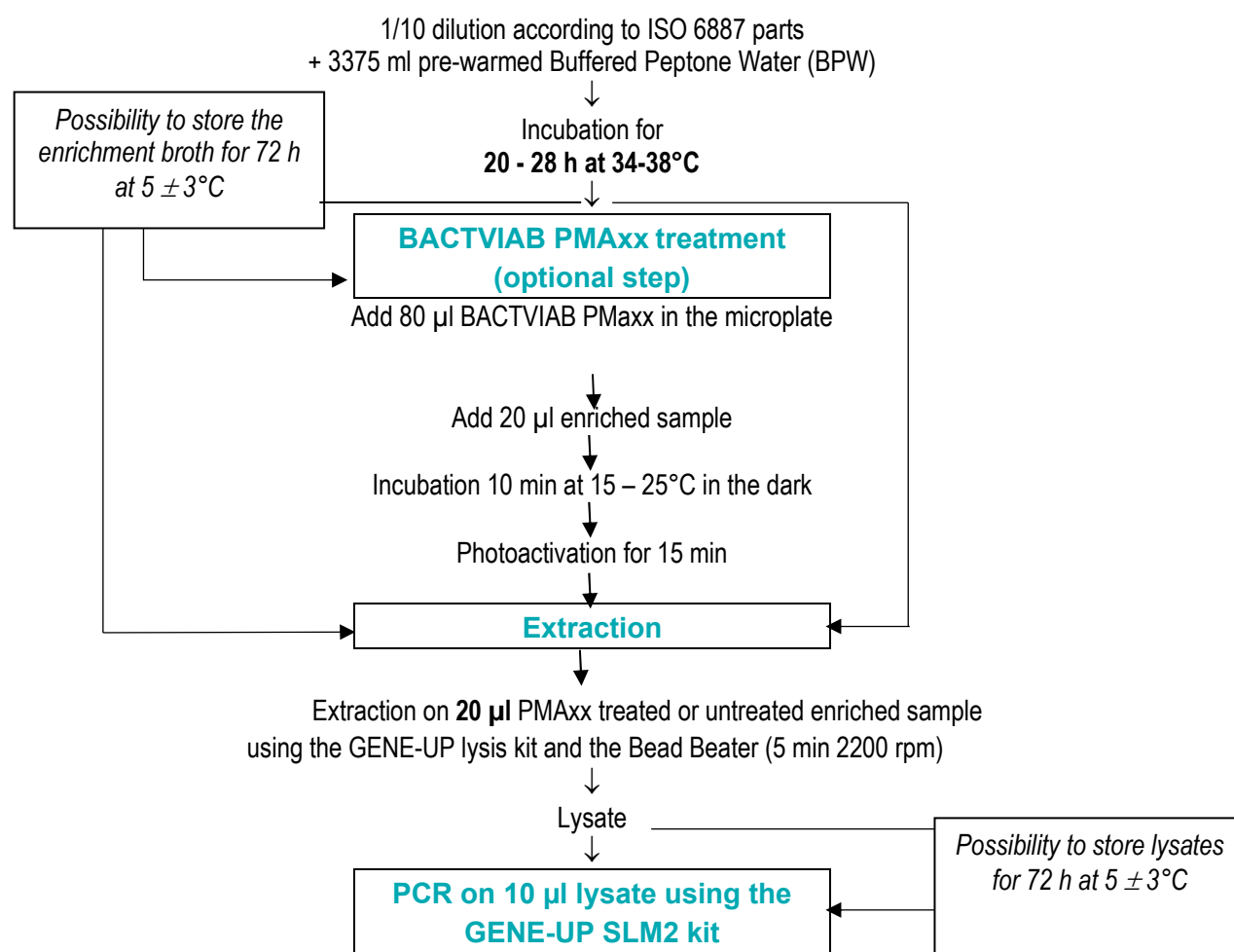


**ISO 6579-1 Enrichment broth
Pet food (375 g test portion)**

375 g sample + 3 375 ml pre-warmed BPW



ISO protocol
Pet food for cat and dog (375 g test portion)



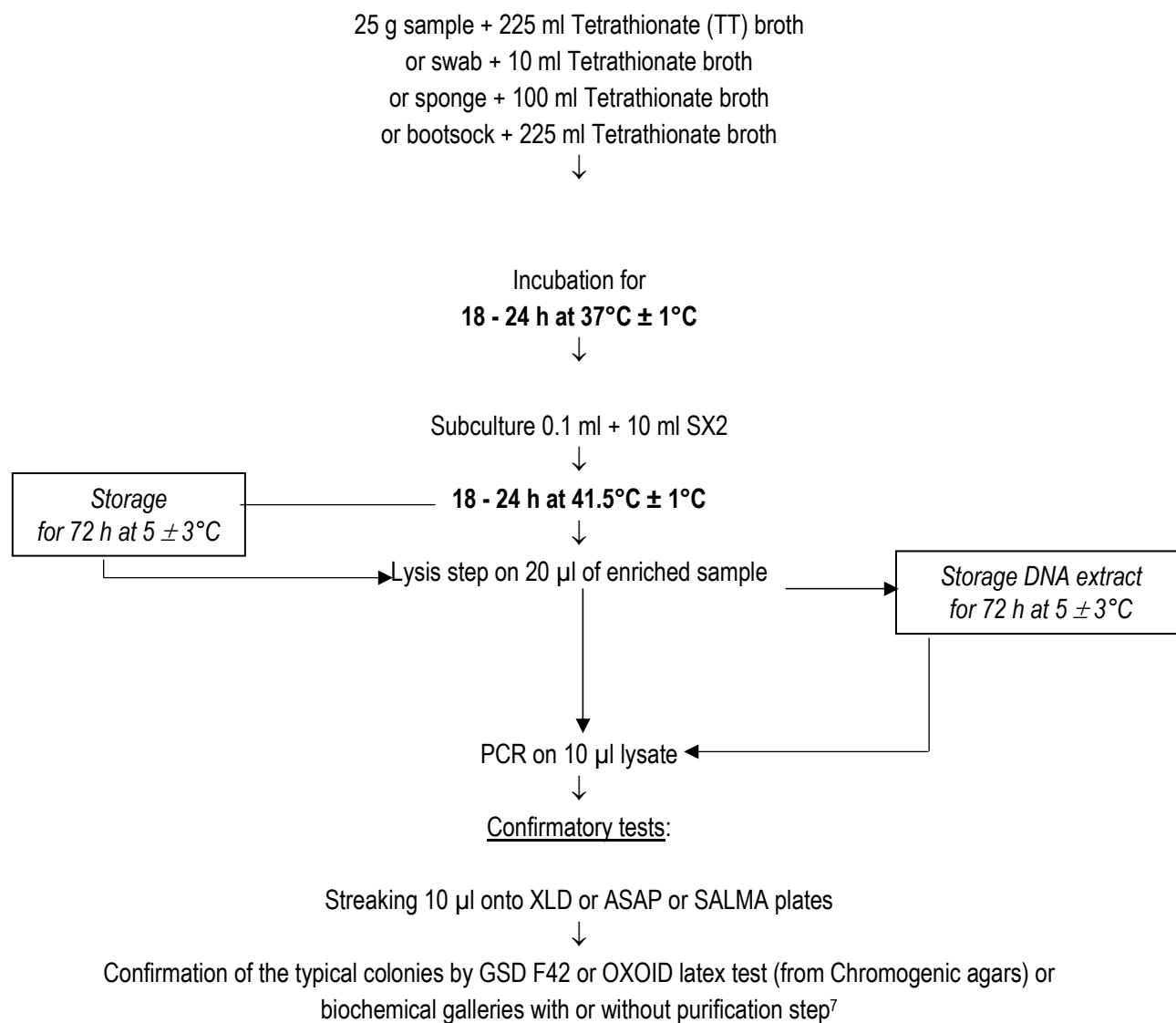
Confirmatory tests:

Streaking 10 µl onto selective agar plates (ChromID *Salmonella* or XLD or ASAP or SALMA)

In case of atypical colonies by direct streaking: subculture in SX2 broth (0.5 ml + 10 ml) for 6 h to 24 h at 41.5°C ± 1°C before streaking onto selective agar plates (XLD or ASAP or SALMA)

The typical colonies are confirmed by:
GSD F42 or OXOID latex test from Chromogenic agars (except XLD)
Or biochemical gallery without purification step from selective agar plates
Or the tests described in the standardized methods (CEN or ISO)

Specific protocol ⑨
Primary production samples

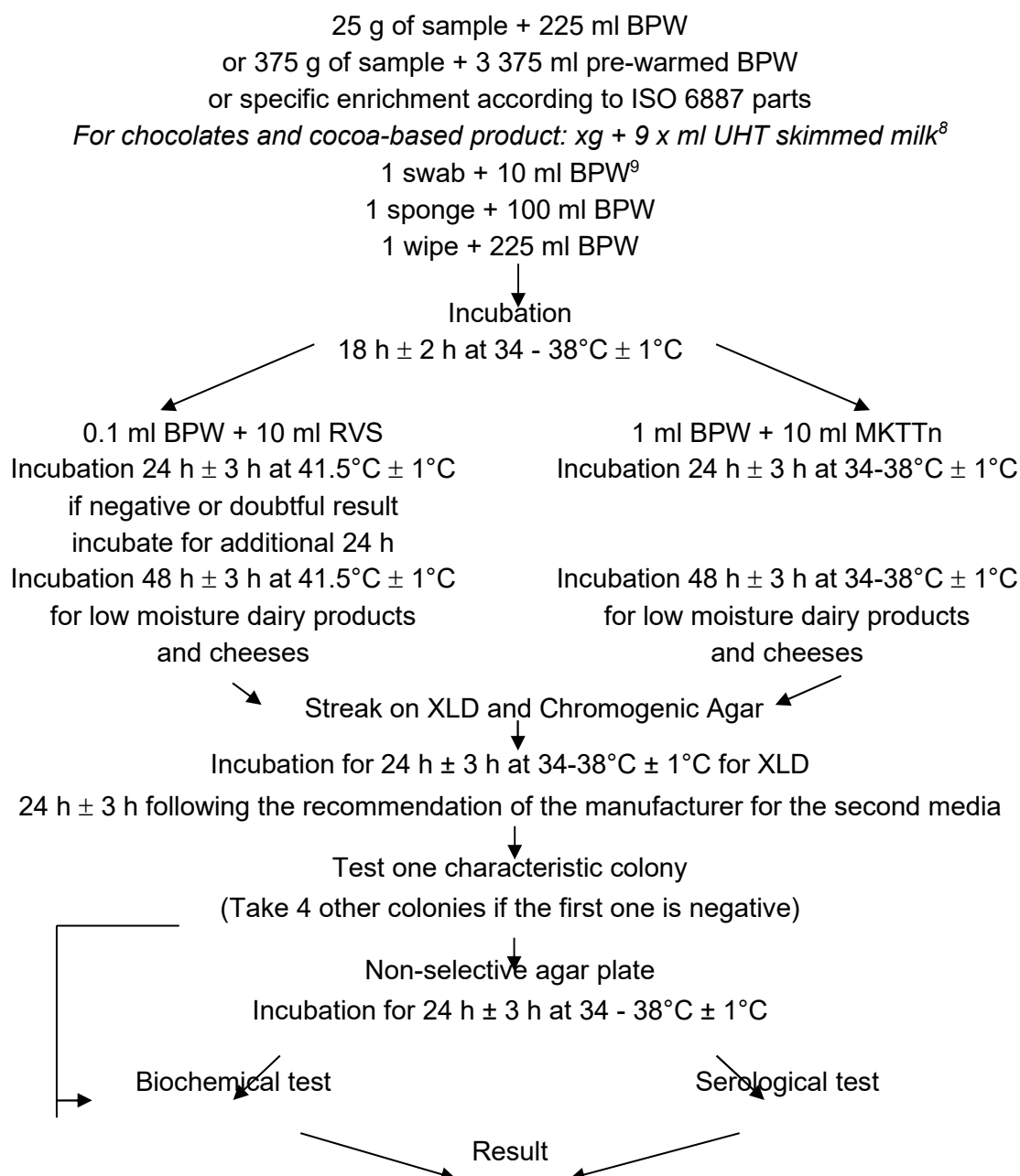


⁷ During the validation study, the typical colonies were confirmed without purification step.

Appendix 2 - Flow diagram of the reference method:

ISO 6579-1 (February 2017): Microbiology of the food chain - Horizontal method for the detection, enumeration and serotyping of *Salmonella* spp. - Part 1: detection of *Salmonella* spp.

ISO 6579-1/A1 (March 2020): Microbiology of the food chain - Horizontal method for the detection, enumeration and serotyping of *Salmonella* spp. - Part 1: detection of *Salmonella* spp. Amendment 1: Broader range of incubation temperatures, amendment to the status of Annex D, and correction of the composition of MSRV and SC



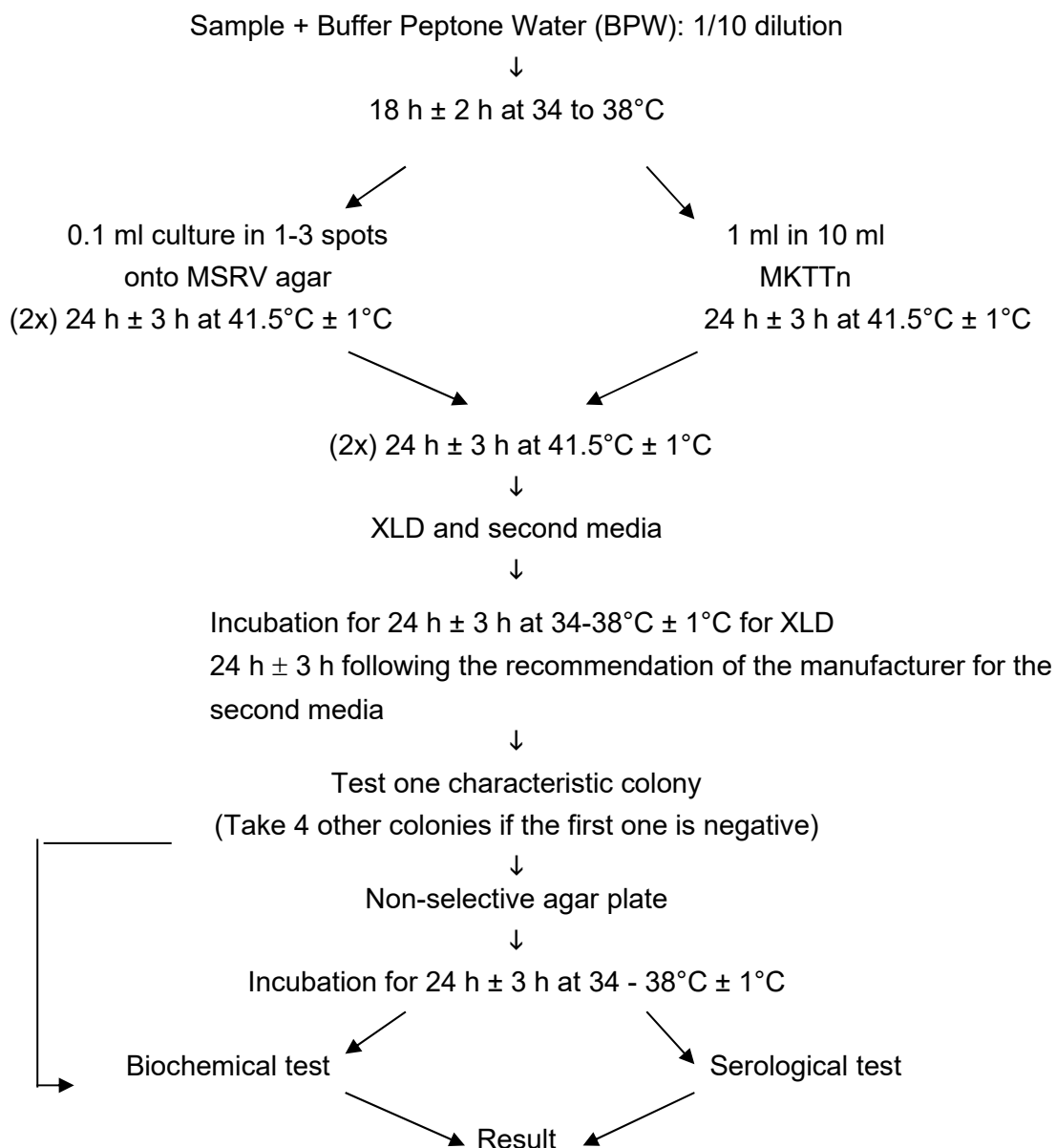
⁸ For chocolates products containing > 20 % fat, unless the products already contain sufficient emulsifier, add Tween 80

For products with high background microflora add Brilliant green (0.018g/L)

⁹ For sampling after cleaning process premoisten

- 1 swab + 1 ml broth universal neutralizing (+ 9 ml BPW)
- 1 sponge + 10 ml broth universal neutralizing (+ 90 ml BPW)
- 1 wipe + BPW + 10 % neutralizing agent (+ 225 ml BPW)

Primary production samples: faeces and environmental samples



Appendix 3 – Artificial contamination of samples

Sample N°	Product (French name)	Product	Artificial contaminations (spiking protocol)						Global result	Category	Type
			Strain	Origin	Injury protocol	Injury measu- rement	Inoculation level/sample				
							Enumeration	Mean			
6818	Duo d'agrumes	Citrus salad	S. Senftenberg 6	Environmental sample	Seeding 4°C 48h	/	0-0-2-1-2	1.0	+	1	a
6819	Salade de fruits	Fruits salad	S. Senftenberg 6	Environmental sample	Seeding 4°C 48h	/	0-0-2-1-2	1.0	-	1	a
6820	Sandwich jambon/emmental	Sandwich ham/cheese	S. London 326	Pork meat	Seeding 4°C 48h	/	1-3-1-2-1	1.6	+	1	a
6821	Sandwich jambon/beurre	Sandwich ham/butter	S. London 326	Pork meat	Seeding 4°C 48h	/	1-3-1-2-1	1.6	+	1	a
6912	Mayonnaise	Mayonnaise	S. Typhimurium 13	Pasteurized whole egg	Spiking HT 8 min 56°C	0.40	1-3-6-4-5	3.8	+	1	a
6913	Eclair au café	Pastry	S. Mbandaka 81	Pasteurized whole egg	Spiking HT 8 min 56°C	1.02	3-2-0-0-0	1.0	+	1	a
6914	Terrine crabe/homard	Terrine crab/lobster	S. Anatum Ad1451	Fish fillet	Spiking HT 8 min 56°C	0.92	10-10-11-9-10	10.0	+	1	a
6915	Terrine crabe/homard	Terrine crab/lobster	S. Urbana Ad2334	Shrimps	Spiking HT 8 min 56°C	0.38	3-3-4-2-1	2.6	+	1	a
6916	Jambon blanc	Ham	S. London Ad2422	Pork meat	Spiking HT 8 min 56°C	0.58	4-3-2-5-2	3.2	+	1	a
6917	Pâté de campagne	Pâté	S. Agona Ad2281	Pork meat	Spiking HT 8 min 56°C	1.39	2-3-3-2-3	2.6	+	1	a
6918	Quiche au thon	Tuna quiche	S. Anatum Ad1451	Fish fillet	Spiking HT 8 min 56°C	0.92	10-10-11-9-10	10.0	+	1	b
6919	Quiche saumon/brocolis	Salmon/broccoli quiche	S. Mbandaka 81	Pasteurized whole egg	Spiking HT 8 min 56°C	1.02	3-2-0-0-0	1.0	+	1	b
6920	Pizza jambon/fromage	Ham/cheese Pizza	S. London Ad2422	Pork meat	Spiking HT 8 min 56°C	0.58	4-3-2-5-2	3.2	+	1	b
6921	Tarte aux poireaux	Leek pie	S. Typhimurium 13	Pasteurized whole egg	Spiking HT 8 min 56°C	0.40	1-3-6-4-5	3.8	+	1	b
6922	Hachis parmentier	Ready to reheat food	S. Panama 8	Ground beef	Spiking HT 8 min 56°C	0.86	4-4-5-2-8	4.6	+	1	b
6923	Emincé de bœuf sauce au poivre et pommes de terre	Ready to reheat food	S. Panama 8	Ground beef	Spiking HT 8 min 56°C	0.86	4-4-5-2-8	4.6	+	1	b
6924	Spaghetti à la bolognaise	Ready to reheat food	S. Panama 8	Ground beef	Spiking HT 8 min 56°C	0.86	4-4-5-2-8	4.6	+	1	b
6925	Mijoté de bœuf et carottes/patates douces	Ready to reheat food	S. Panama 8	Ground beef	Spiking HT 8 min 56°C	0.86	4-4-5-2-8	4.6	+	1	b
6926	Escalope de dinde milanaise	Ready to reheat food	S. Enteritidis Ad477	Poultry meat	Spiking HT 8 min 56°C	0.70	0-0-0-1-5	1.2	+	1	b
6927	Poulet tomates/purée de courgettes	Ready to reheat food	S. Enteritidis Ad477	Poultry meat	Spiking HT 8 min 56°C	0.70	0-0-0-1-5	1.2	+	1	b
6928	Sauté de porc à la catalane	Ready to reheat food	S. London Ad2422	Pork meat	Spiking HT 8 min 56°C	0.58	4-3-2-5-2	3.2	+	1	b
6929	Petit salé aux lentilles vertes	Ready to reheat food	S. Agona Ad2281	Pork meat	Spiking HT 8 min 56°C	1.39	2-3-3-2-3	2.6	+	1	b
6806	Filet de maquereau au poivre	Cured mackerel fillet	S. Indiana Ad1409	Marinated fish fillet	Seeding 4°C 48h	/	2-0-0-0-1	0.6	+	1	c
6807	Filet de hareng fumé	Smoked herring	S. Indiana Ad1409	Marinated fish fillet	Seeding 4°C 48h	/	2-0-0-0-1	0.6	-	1	c
6808	Lardon de saumon fumé	Smoked salmon	S. Wandworth Ad2335	Fish fillet	Seeding 4°C 48h	/	4-4-1-0-6	3.0	+	1	c
6809	Tranches de truite fumée	Smoked trout	S. Wandworth Ad2335	Fish fillet	Seeding 4°C 48h	/	4-4-1-0-6	3.0	-	1	c
6810	Magret de canard	Smoked duck	S. Regent 328	Duck meat	Seeding 4°C 48h	/	2-0-0-2-1	1.0	-	1	c
6811	Magret de canard	Smoked duck	S. Regent 328	Duck meat	Seeding 4°C 48h	/	2-0-0-2-1	1.0	+	1	c
6812	Magret de canard	Smoked duck	S. Bredeney Ad2042	Poultry meat	Seeding 4°C 48h	/	0-0-0-2-2	0.8	+	1	c
6813	Magret de canard	Smoked duck	S. Bredeney Ad2042	Poultry meat	Seeding 4°C 48h	/	0-0-0-2-2	0.8	-	1	c
6814	Manchons de poulet à la mexicaine	Ready to eat poultry meat	S. Virchow 647	Poultry meat	Seeding 4°C 48h	/	4-3-2-2-5	3.2	+	1	c
6815	Manchons de poulet nature	Ready to eat poultry meat	S. Virchow 647	Poultry meat	Seeding 4°C 48h	/	4-3-2-2-5	3.2	+	1	c
6816	Manchons de poulet à l'indienne	Ready to eat poultry meat	S. Infantis 937	Poultry meat	Seeding 4°C 48h	/	2-5-6-3-5	4.2	+	1	c
6817	Manchons de poulet à la mexicaine	Ready to eat poultry meat	S. Infantis 937	Poultry meat	Seeding 4°C 48h	/	2-5-6-3-5	4.2	+	1	c
7198	Truite fumée	Smoked trout	S. Wandworth Ad2335	Fish fillet	Seeding 4°C 48h	/	3-1-0-1-2	1.4	+	1	c
7199	Maquereau fumé	Smoked mackerel	S. Wandworth Ad2335	Fish fillet	Seeding 4°C 48h	/	3-1-0-1-2	1.4	+	1	c
1596	Escalope de veau	Veal meat	S. Enteritidis Ad2295	Beef meat	Seeding 2-8°C 48h	/	0-0-0-1-2	0.6	-	2	a
1597	Gigot d'agneau	Lamb meat	S. Bredeney 4871	Merguez	Seeding 2-8°C 48h	/	0-1-0-1-1	0.6	+	2	a
1598	Steak haché	Ground beef	S. Enteritidis Ad2295	Beef meat	Seeding 2-8°C 48h	/	0-0-0-1-2	0.6	+	2	a
1599	Filet de bœuf	Beef meat	S. Ohio Ad2224	Ground beef	Seeding 2-8°C 48h	/	0-2-0-1-0	0.6	+	2	a
1600	Hampe de bœuf	Beef meat	S. Ohio Ad2224	Ground beef	Seeding 2-8°C 48h	/	0-2-0-1-0	0.6	+	2	a
1601	Souris d'agneau	Lamb meat	S. Bredeney 4871	Merguez	Seeding 2-8°C 48h	/	0-1-0-1-1	0.6	+	2	a
1602	Côtes d'agneau	Lamb meat	S. Bredeney 4871	Merguez	Seeding 2-8°C 48h	/	0-1-0-1-1	0.6	-	2	a
1603	Cuisse de poulet	Poultry meat	S. Enteritidis Ad2524	Poultry meat	Seeding 2-8°C 48h	/	0-1-0-3-1	1.0	-	2	b
1604	Filet de blanc de poulet	Poultry meat	S. Enteritidis Ad2524	Poultry meat	Seeding 2-8°C 48h	/	0-1-0-3-1	1.0	+	2	b
1605	Filet de poulet	Poultry meat	S. Enteritidis Ad2524	Poultry meat	Seeding 2-8°C 48h	/	0-1-0-3-1	1.0	+	2	b
1606	Cuisse de poulet	Poultry meat	S. Newport Ad2223	Poultry meat	Seeding 2-8°C 48h	/	6-0-0-0-0	1.2	-	2	b
1607	Rôti de filet de dinde	Poultry meat	S. Newport Ad2223	Poultry meat	Seeding 2-8°C 48h	/	6-0-0-0-0	1.2	+	2	b
1608	Escalope de dinde	Poultry meat	S. Newport Ad2223	Poultry meat	Seeding 2-8°C 48h	/	6-0-0-0-0	1.2	+	2	b
1609	Salami	Salami	S. Panama 882	Chipolata	Seeding 2-8°C 48h	/	1-1-0-1-1	0.8	-	2	c
1610	Salami fumé	Smoked salami	S. Panama 882	Chipolata	Seeding 2-8°C 48h	/	1-1-0-1-1	0.8	-	2	c

Sample N°	Product (French name)	Product	Artificial contaminations (spiking protocol)						Global result	Category	Type
			Strain	Origin	Injury protocol	Injury measu- rement	Inoculation level/sample				
							Enumeration	Mean			
1611	Chipolatas	Chipolata	S. Panama 882	Chipolata	Seeding 2-8°C 48h	/	1-1-0-1-1	0.8	+	2	c
1612	Saucisse Montbéliard	Sausage of Montbeliard	S. Indiana 538	Sausage	Seeding 2-8°C 48h	/	1-0-2-1-2	1.2	+	2	c
1613	Bacon	Bacon	S. Enteritidis 2532	Ham	Seeding 2-8°C 48h	/	0-1-3-0-1	1.0	+	2	c
1614	Bacon fumé	Smoked bacon	S. Enteritidis 2532	Ham	Seeding 2-8°C 48h	/	0-1-3-0-1	1.0	+	2	c
1615	Saucisse	Sausage	S. Indiana 538	Sausage	Seeding 2-8°C 48h	/	1-0-2-1-2	1.2	-	2	c
5615	Brie au lait pasteurisé	Pasteurized milk cheese	S. Montevideo 606	Raw milk	Spiking HT 8 min 56°C	0.62	4-1-4-2-4 (3.0)	3	+	3	a
5616	Fourme d'Ambert au lait pasteurisé	Pasteurized milk cheese	S. Montevideo 606	Raw milk	Spiking HT 8 min 56°C	0.62	4-1-4-2-4 (3.0)	3	+	3	a
5617	Saint Nectaire au lait pasteurisé	Pasteurized milk cheese	S. Montevideo 606	Raw milk	Spiking HT 8 min 56°C	0.62	4-1-4-2-4 (3.0)	3	+	3	a
5618	Camembert au lait pasteurisé	Pasteurized milk cheese	S. Anatum Ad298	Milk powder	Spiking HT 8 min 56°C	0.55	4-6-2-3-2 (3.4)	3.4	+	3	a
5619	Crottin de chèvre au lait pasteurisé	Pasteurized milk cheese	S. Anatum Ad298	Milk powder	Spiking HT 8 min 56°C	0.55	4-6-2-3-2 (3.4)	3.4	+	3	a
6903	Crème glacée	Ice cream	S. Meleagridis 505	Raw milk	Seeding -20°C 14 days	/	2-3-1-2-2	2.0	+	3	a
6904	Crème glacée	Ice cream	S. Meleagridis 505	Raw milk	Seeding -20°C 14 days	/	2-3-1-2-2	2.0	-	3	a
6905	Crème glacée	Ice cream	S. Meleagridis 505	Raw milk	Seeding -20°C 14 days	/	2-3-1-2-2	2.0	+	3	a
6906	Crème glacée	Ice cream	S. Meleagridis 505	Raw milk	Seeding -20°C 14 days	/	2-3-1-2-2	2.0	+	3	a
7208	Lait pasteurisé	Pasteurized milk	S. Mbandaka Ad1722	Raw milk	Spiking HT 8 min 56°C	2.34	2-1-0-1-0	0.8	+	3	a
7209	Tiramisu	Tiramisu	S. Mikawasima Ad1811	Raw milk	Spiking HT 8 min 56°C	0.52	3-2-2-1-3	2.2	+	3	a
7210	Panna cotta	Panna cotta	S. Mikawasima Ad1811	Raw milk	Spiking HT 8 min 56°C	0.52	3-2-2-1-3	2.2	+	3	a
2135	Crème crue	Raw cream	S. Mbandaka Ad1810	Camembert	Seeding 4°C 48h	/	0-0-2-2-1 (1.0)	1	+	3	b
2136	Crème crue	Raw cream	S. Ohio Ad2213	Raw cream	Seeding 4°C 48h	/	1-1-1-1-1 (1.0)	1	-	3	b
2137	Crème crue	Raw cream	S. Infantis 401B	Raw milk	Seeding 4°C 48h	/	0-1-4-1-2 (1.6)	1.6	+	3	b
2138	Crème crue	Raw cream	S. Montevideo Ad912	Raw milk	Seeding 4°C 48h	/	2-1-2-0-3 (1.6)	1.6	+	3	b
2139	Lait cru	Raw milk	S. Meleagridis 505	Raw milk	Seeding 4°C 48h	/	2-2-1-3-1 (1.8)	1.8	+	3	b
2140	Lait cru	Raw milk	S. Mbandaka Ad1810	Camembert	Seeding 4°C 48h	/	0-0-2-2-1 (1.0)	1	-	3	b
2141	Morbier	Raw cow milk cheese	S. Montevideo Ad912	Raw milk	Seeding 4°C 48h	/	2-1-2-0-3 (1.6)	1.6	+	3	b
2142	Comté	Raw cow milk cheese	S. Meleagridis 505	Raw milk	Seeding 4°C 48h	/	2-2-1-3-1 (1.8)	1.8	-	3	b
2143	Reblochon	Raw cow milk cheese	S. Mbandaka Ad1810	Camembert	Seeding 4°C 48h	/	0-0-2-2-1 (1.0)	1	-	3	b
2144	Crottin de Chavignol	Raw goat milk cheese	S. Ohio Ad2213	Raw cream	Seeding 4°C 48h	/	1-1-1-1-1 (1.0)	1	+	3	b
2145	Lait cru	Raw milk	S. Ohio Ad2213	Raw cream	Seeding 4°C 48h	/	1-1-1-1-1 (1.0)	1	+	3	b
2146	Lait cru	Raw milk	S. Infantis 401B	Raw milk	Seeding 4°C 48h	/	0-1-4-1-2 (1.6)	1.6	+	3	b
2147	Camembert	Raw cow milk cheese	S. Infantis 401B	Raw milk	Seeding 4°C 48h	/	0-1-4-1-2 (1.6)	1.6	-	3	b
2148	Roquefort	Raw ewe milk cheese	S. Montevideo Ad912	Raw milk	Seeding 4°C 48h	/	2-1-2-0-3 (1.6)	1.6	-	3	b
2149	Selles-sur-Cher	Raw goat milk cheese	S. Meleagridis 505	Raw milk	Seeding 4°C 48h	/	2-2-1-3-1 (1.8)	1.8	-	3	b
2150	Brie de Meaux	Raw cow milk cheese	S. Ohio Ad2213	Raw cream	Seeding 4°C 48h	/	1-1-1-1-1 (1.0)	1	-	3	b
2394	Beaumont de Savoie	Raw cow milk cheese	S. Mbandaka Ad2296	Raw milk	Seeding 4°C 48h	/	1-2-3-1-1 (1.6)	1.6	+	3	b
2395	Le Compostelle	Raw goat milk cheese	S. Mbandaka Ad2296	Raw milk	Seeding 4°C 48h	/	1-2-3-1-1 (1.6)	1.6	+	3	b
2396	Beaufort	Raw cow milk cheese	S. Livingstone Ad1169	Dairy product	Seeding 4°C 48h	/	4-3-4-1-3 (3.0)	3	+	3	b
2397	Abondance	Raw cow milk cheese	S. Anatum Ad1166	Dairy product	Seeding 4°C 48h	/	2-2-2-3-2 (2.2)	2.2	+	3	b
2398	Grana Padano	Raw cow milk cheese	S. Anatum Ad1166	Dairy product	Seeding 4°C 48h	/	2-2-2-3-2 (2.2)	2.2	+	3	b
2399	Roquefort	Raw ewe milk cheese	S. Mbandaka Ad2296	Raw milk	Seeding 4°C 48h	/	1-2-3-1-1 (1.6)	1.6	-	3	b
2400	Crottin de chèvre	Raw goat milk cheese	S. Livingstone Ad1169	Dairy product	Seeding 4°C 48h	/	4-3-4-1-3 (3.0)	3	+	3	b
2401	Fromage du curé	Raw cow milk cheese	S. Anatum Ad1166	Dairy product	Seeding 4°C 48h	/	2-2-2-3-2 (2.2)	2.2	+	3	b
2402	Lait cru	Raw milk	S. Livingstone Ad1169	Dairy product	Seeding 4°C 48h	/	4-3-4-1-3 (3.0)	3	+	3	b
2403	Lait cru	Raw milk	S. Anatum Ad1166	Dairy product	Seeding 4°C 48h	/	2-2-2-3-2 (2.2)	2.2	-	3	b
4687	Protéines de lait	Milk proteins	S. Typhimurium 4	Milk powder	Seeding lyophilized room temperature 16 days	/	3.1	3.1	-	3	c
4688	Lactosérum	Lactosérum	S. Stourbridge Ad2297	Raw milk cheese	Seeding lyophilized room temperature 16 days	/	3.1	3.1	+	3	c
4689	Lait écrémé en poudre	Skimmed milk powder	S. Stourbridge Ad2297	Raw milk cheese	Seeding lyophilized room temperature 16 days	/	3.1	3.1	+	3	c
4690	Lait écrémé en poudre	Skimmed milk powder	S. Anatum Ad298	Milk powder	Seeding lyophilized room temperature 16 days	/	<0.4	<0.4	+	3	c
4691	Lait écrémé en poudre	Skimmed milk powder	S. Anatum Ad298	Milk powder	Seeding lyophilized room temperature 16 days	/	<0.4	<0.4	+	3	c
4692	Lait écrémé en poudre	Skimmed milk powder	S. Typhimurium 4	Milk powder	Seeding lyophilized room temperature 16 days	/	3.1	3.1	+	3	c
4693	Lait écrémé en poudre	Skimmed milk powder	S. Typhimurium 4	Milk powder	Seeding lyophilized room temperature 16 days	/	3.1	3.1	-	3	c
6891	Poudre de lait entier	Milk powder	S. Duisburg Ad1812	Raw milk	Seeding lyophilized room temperature 14 days	/	<0.5	<0.5	-	3	c
6892	Poudre de lait écrémé	Milk powder	S. Duisburg Ad1812	Raw milk	Seeding lyophilized room temperature 14 days	/	<0.5	<0.5	+	3	c
6893	Poudre de lait	Milk powder	S. Cerro Ad1173	Dairy product	Seeding lyophilized room temperature 14 days	/	0.5	0.5	+	3	c
6894	Poudre de lait bio	Milk powder	S. Cerro Ad1173	Dairy product	Seeding lyophilized room temperature 14 days	/	0.5	0.5	+	3	c
6895	Poudre de lait demi-écrémé	Milk powder	S. Tennessee Ad1171	Dairy product	Seeding lyophilized room temperature 14 days	/	<3.0	<3.0	-	3	c

Sample N°	Product (French name)	Product	Artificial contaminations (spiking protocol)						Global result	Category	Type
			Strain	Origin	Injury protocol	Injury measu- rement	Inoculation level/sample				
							Enumeration	Mean			
6896	Poudre de lait écrémé	Milk powder	S. Tennessee Ad1171	Dairy product	Seeding lyophilized room temperature 14 days	/	<3.0	<3.0	-	3	c
6897	Protéines de lactosérum	Lactoserum	S. Duisburg Ad1812	Raw milk	Seeding lyophilized room temperature 14 days	/	<0.5	<0.5	+	3	c
6898	Lactoserum	Lactoserum	S. Duisburg Ad1812	Raw milk	Seeding lyophilized room temperature 14 days	/	<0.5	<0.5	+	3	c
6899	Maltodextrine	Maltodextrin	S. Cerro Ad1173	Dairy product	Seeding lyophilized room temperature 14 days	/	0.5	0.5	+	3	c
6900	Lactoserum	Lactoserum	S. Cerro Ad1173	Dairy product	Seeding lyophilized room temperature 14 days	/	0.5	0.5	+	3	c
6901	Lactoprotéines	Lactoprotein	S. Tennessee Ad1171	Dairy product	Seeding lyophilized room temperature 14 days	/	<3.0	<3.0	+	3	c
6902	Caséines	Caseinate	S. Tennessee Ad1171	Dairy product	Seeding lyophilized room temperature 14 days	/	<3.0	<3.0	+	3	c
7056	Poudre de lait demi-écrémé	Milk powder	S. Indiana Ad174	Milk powder	Spiking HT 8 min 56°C	1.15	0-1-2-3-0	1.2	+	3	c
7057	Poudre de lait	Milk powder	S. Mbandaka Ad1810	Cheese	Spiking HT 8 min 56°C	1.06	0-0-1-0-0	0.2	-	3	c
7058	Maltodextrine	Maltodextrin	S. Mbandaka Ad1810	Cheese	Spiking HT 8 min 56°C	1.06	0-0-1-0-0	0.2	-	3	c
7059	Caséinate	Caseinate	S. Indiana Ad174	Milk powder	Spiking HT 8 min 56°C	1.15	0-1-2-3-0	1.2	+	3	c
7060	Lactose	Lactose	S. Ohio Ad2213	Raw cream	Spiking HT 8 min 56°C	0.40	2-2-0-0-1	1.0	+	3	c
7061	Lactoserum	Lactoserum	S. Ohio Ad2213	Raw cream	Spiking HT 8 min 56°C	0.40	2-2-0-0-1	1.0	-	3	c
7062	Caséine	Casein	S. Ohio Ad2213	Raw cream	Spiking HT 8 min 56°C	0.40	2-2-0-0-1	1.0	+	3	c
7211	Poudre de lait	Milk powder	S. Mikawasima Ad1811	Raw milk	Spiking HT 8 min 56°C	0.52	3-2-2-1-3	2.2	-	3	c
7212	Poudre de lait	Milk powder	S. Mbandaka Ad1722	Raw milk	Spiking HT 8 min 56°C	2.34	2-1-0-1-0	0.8	-	3	c
7213	Poudre de lait	Milk powder	S. Mbandaka Ad1722	Raw milk	Spiking HT 8 min 56°C	2.34	2-1-0-1-0	0.8	-	3	c
8075	Poudre de lait	Milk powder	S. Infantis 3	Milk powder	Spiking HT 8 min 56°C	0.54	2-1-1-1-1	1.2	+	3	c
8076	Poudre de lait	Milk powder	S. Infantis 3	Milk powder	Spiking HT 8 min 56°C	0.54	2-1-1-1-1	1.2	+	3	c
1925	Fruits de mer	Seafood	S. Derby Ad1093	Fish fillet	Seeding 4°C 48h	/	1-1-1-2-2 (1.4)	1.4	-	4	a
1935	Terrine de saumon	Salmon terrine	S. Derby Ad1093	Fish fillet	Seeding 4°C 48h	/	1-1-1-2-2 (1.4)	1.4	-	4	a
2320	Crevettes roses	Shrimp	S. Derby F81	Molds	Seeding 4°C 48h	/	3-1-3-2-1 (2.0)	2	-	4	a
2970	Terrine de Saint Jacques	Seafood terrine	S. Indiana 2	Fishmeal	Seeding 4°C 48h	/	2-6-3-4-5 (4.0)	4	+	4	a
2971	Terrine de Saint Jacques	Seafood terrine	S. Agona F118	Molds	Seeding 4°C 48h	/	3-6-0-5-1 (3.0)	3	+	4	a
2972	Miettes de crabe	Flaked crab	S. Indiana 2	Fishmeal	Seeding 4°C 48h	/	2-6-3-4-5 (4.0)	4	+	4	a
2973	Miettes de crabe	Flaked crab	S. Agona F118	Molds	Seeding 4°C 48h	/	3-6-0-5-1 (3.0)	3	+	4	a
2974	Filet de julienne	Fish fillet	S. Agona F118	Molds	Seeding 4°C 48h	/	3-6-0-5-1 (3.0)	3	+	4	a
2975	Filet de maquereau	Fish fillet	S. Indiana 2	Fishmeal	Seeding 4°C 48h	/	2-6-3-4-5 (4.0)	4	+	4	a
2976	Surimi	Surimi	S. Indiana 2	Fishmeal	Seeding 4°C 48h	/	2-6-3-4-5 (4.0)	4	+	4	a
4239	Filet de tacaud	Fish fillet	S. Derby Ad1093	Fish fillet	Seeding 4°C 48h	/	2-3-2-2-3 (2.4)	2.4	+	4	a
4240	Filet de maquereau	Fish fillet	S. Derby Ad1093	Fish fillet	Seeding 4°C 48h	/	2-3-2-2-3 (2.4)	2.4	+	4	a
4241	Darne de saumon	Fish fillet	S. Derby Ad1093	Fish fillet	Seeding 4°C 48h	/	2-3-2-2-3 (2.4)	2.4	+	4	a
4242	Filet de cabillaud	Fish fillet	S. Saint-Paul F31	Fish fillet	Seeding 4°C 48h	/	2-2-3-4-0 (2.2)	2.2	-	4	a
4243	Filet de merlan	Fish fillet	S. Saint-Paul F31	Fish fillet	Seeding 4°C 48h	/	2-2-3-4-0 (2.2)	2.2	+	4	a
1917	Sucrine	Sucrine	S. Blockley Ad923	Environmental sample	Seeding 4°C 48h	/	2-1-1-1-2 (1.4)	1.4	-	4	b
1919	Mâche	Mâche	S. Kottbus 2	Environmental sample	Seeding 4°C 48h	/	3-2-3-4-1 (2.6)	2.6	-	4	b
1921	Cresson	Cress	S. Kottbus 2	Environmental sample	Seeding 4°C 48h	/	3-2-3-4-1 (2.6)	2.6	-	4	b
1922	Tendres pousses	Baby leaves	S. Blockley Ad923	Environmental sample	Seeding 4°C 48h	/	2-1-1-1-2 (1.4)	1.4	-	4	b
2339	Mélange jeunes pousses	Baby leaves	S. Senftenberg 1	Environmental sample	Seeding 4°C 48h	/	4-2-2-2-4 (2.8)	2.8	-	4	b
2981	Jeunes pousses	Baby leaves	S. Amsterdam Ad1767	Environmental sample	Seeding 4°C 48h	/	6-7-8-6-3 (6.0)	6	+	4	b
2982	Mesclun	Baby leaves	S. Amsterdam Ad1767	Environmental sample	Seeding 4°C 48h	/	6-7-8-6-3 (6.0)	6	+	4	b
2983	Mélange de jeunes pousses	Baby leaves	S. Kottbus 3	Environmental sample	Seeding 4°C 48h	/	4-4-7-8-6 (5.8)	5.8	+	4	b
2984	Tendres pousses corsées	Baby leaves	S. Senftenberg 2	Environmental sample	Seeding 4°C 48h	/	2-2-1-1-3 (1.8)	1.8	+	4	b
2985	Tendres pousses	Baby leaves	S. Havana Ad930	Environmental sample	Seeding 4°C 48h	/	5-0-3-5-5 (3.6)	3.6	+	4	b
2989	Mache et roquette	Mixed salad	S. Amsterdam Ad1767	Environmental sample	Seeding 4°C 48h	/	6-7-8-6-3 (6.0)	6	+	4	b
2990	Salade mélangée	Mixed salad	S. Amsterdam Ad1767	Environmental sample	Seeding 4°C 48h	/	6-7-8-6-3 (6.0)	6	+	4	b
2991	Sucrine	Sucrine	S. Kottbus 3	Environmental sample	Seeding 4°C 48h	/	4-4-7-8-6 (5.8)	5.8	+	4	b
4244	Mélange jeunes pousses	Baby leaves	S. Senftenberg 4	Environmental sample	Seeding 4°C 48h	/	5-11-7-11-7 (8.2)	8.2	-	4	b
4245	Tendres pousses	Baby leaves	S. Typhimurium Ad1249	Environmental sample	Seeding 4°C 48h	/	2-3-7-1-3 (3.2)	3.2	-	4	b
1495	Aneth	Dill	S. Kentucky Ad1756	Environmental sample	Seeding 2-8°C 48h	/	1-2-3-3-2	2.2	+	4	b
1496	Ciboulette	Chive	S. Kentucky Ad1756	Environmental sample	Seeding 2-8°C 48h	/	1-2-3-3-2	2.2	+	4	b
1497	Salade frisée	curly lettuce	S. Infantis Ad1404	Environmental sample	Seeding 2-8°C 48h	/	6-2-2-4-1	3.0	+	4	b
1498	Laitue iceberg	Lettuce	S. Infantis Ad1404	Environmental sample	Seeding 2-8°C 48h	/	6-2-2-4-1	3.0	+	4	b
2344	Carottes râpées	Grated carrots	S. Kedougou Ad929	Environmental sample	Seeding 4°C 48h	/	4-1-3-1-0 (1.8)	1.8	-	4	c

Sample N°	Product (French name)	Product	Artificial contaminations (spiking protocol)						Global result	Category	Type
			Strain	Origin	Injury protocol	Injury measu- rement	Inoculation level/sample				
							Enumeration	Mean			
2986	Mélange crudités (chou blanc/carotte/céleri)	White cabbage/carrot/celery	S. Havana Ad930	Environmental sample	Seeding 4°C 48h	/	5-0-3-5-5 (3.6)	3.6	+	4	c
2987	Chou rouge	Red cabbage	S. Havana Ad930	Environmental sample	Seeding 4°C 48h	/	5-0-3-5-5 (3.6)	3.6	+	4	c
2988	Carottes râpées	Grated carrots	S. Havana Ad930	Environmental sample	Seeding 4°C 48h	/	5-0-3-5-5 (3.6)	3.6	+	4	c
2992	Assiette croquante (chou blanc/carotte/frisée/poivron rouge)	White cabbage/carrot/salad/red bell pepper	S. Kottbus 3	Environmental sample	Seeding 4°C 48h	/	4-4-7-8-6 (5.8)	5.8	+	4	c
2993	Carottes précuites	Pre-cooked carrots	S. Kottbus 3	Environmental sample	Seeding 4°C 48h	/	4-4-7-8-6 (5.8)	5.8	+	4	c
2994	Pommes de terre précuites	Pre-cooked potatoes	S. Senftenberg 2	Environmental sample	Seeding 4°C 48h	/	2-2-1-1-3 (1.8)	1.8	+	4	c
2995	Mélange crudités (chou chinois/ frisée/ tomate/maïs/courgette/radis/persil)	Chinese cabbage/ salad/ tomato/ corn/zucchini/radish/parsley	S. Senftenberg 2	Environmental sample	Seeding 4°C 48h	/	2-2-1-1-3 (1.8)	1.8	+	4	c
1499	Mélange pomme/raisin	Mix apple/grapes	S. Infantis Ad1404	Environmental sample	Seeding 2-8°C 48h	/	6-2-2-4-1	3.0	+	4	c
1500	Ananas en morceaux	Pineapple pieces	S. Infantis Ad1404	Environmental sample	Seeding 2-8°C 48h	/	6-2-2-4-1	3.0	+	4	c
1501	Mangue en morceaux	Mango pieces	S. Kentucky Ad1756	Environmental sample	Seeding 2-8°C 48h	/	1-2-3-3-2	2.2	+	4	c
1502	"baby" carottes	Carrots	S. Kentucky Ad1756	Environmental sample	Seeding 2-8°C 48h	/	1-2-3-3-2	2.2	-	4	c
1503	Carottes râpées non assaisonnées	Grated carrots	S. Kentucky Ad1756	Environmental sample	Seeding 2-8°C 48h	/	1-2-3-3-2	2.2	+	4	c

Sample N°	Product (French name)	Product	Artificial contaminations (spiking protocol)						Global Result Enrichment ISO	Category	Type
			Strain	Origin	Injury protocol	Injury measu- re-ment	Inoculation level/sample				
							Enumeration	Mean			
3071	Feuilles de basilic déshydratées	Dried basil	S. Agona Ad1725	Vegetables	Seeding lyophilized room temperature 8 weeks	/	2.0	2.0	-	5	a
3072	Herbes de Provence déshydratées	Dried herbs	S. Agona Ad1725	Vegetables	Seeding lyophilized room temperature 8 weeks	/	2.0	2.0	-	5	a
3073	Paprika doux	Paprika	S. Agona Ad1725	Vegetables	Seeding lyophilized room temperature 8 weeks	/	2.0	2.0	+	5	a
3074	Curcuma	Turmeric	S. Oranienburg	Vegetables	Seeding lyophilized room temperature 8 weeks	/	<1.7	<1.7	+	5	a
3075	Curry	Curry	S. Oranienburg	Vegetables	Seeding lyophilized room temperature 8 weeks	/	<1.7	<1.7	-	5	a
3076	Thym déshydraté	Dried thyme	S. Oranienburg	Vegetables	Seeding lyophilized room temperature 8 weeks	/	<1.7	<1.7	+	5	a
4265	Poudre 100% cacao	Cocoa powder	S. Typhimurium Ad1682	Chocolate	Seeding lyophilized room temperature 12 weeks	/	0.8	0.8	-	5	a
4266	Poudre 100% cacao	Cocoa powder	S. Typhimurium Ad1333	Tiramisu	Seeding lyophilized room temperature 12 weeks	/	4.4	4.4	-	5	a
4267	Poudre 100% cacao	Cocoa powder	S. Bareilly Ad1687	Environmental sample	Seeding lyophilized room temperature 12 weeks	/	2.9	2.9	+	5	a
4268	Pastilles chocolat au lait	Milk chocolate tablet	S. Typhimurium Ad1682	Chocolate	Seeding lyophilized room temperature 12 weeks	/	0.8	0.8	-	5	a
4269	Pastilles chocolat noir	Dark chocolate tablet	S. Typhimurium Ad1333	Tiramisu	Seeding lyophilized room temperature 12 weeks	/	4.4	4.4	-	5	a
4270	Fèves de cacao	Cocoa bean	S. Typhimurium Ad1682	Chocolate	Seeding lyophilized room temperature 12 weeks	/	0.8	0.8	+	5	a
4694	Poudre de cacao (100%)	Cocoa powder	S. Stanley Ad1688	Environmental sample	Seeding lyophilized room temperature 16 days	/	5.6	5.6	+	5	a
4695	Poudre de cacao (100%)	Cocoa powder	S. Branderup Ad1661	Environmental sample	Seeding lyophilized room temperature 16 days	/	3.3	3.3	-	5	a
4696	Estragon	Tarragon	S. Infantis Ad1646	Environmental sample	Seeding lyophilized room temperature 16 days	/	2.8	2.8	-	5	a
4697	Origan	Oregano	S. Ouakam Ad1647	Environmental sample	Seeding lyophilized room temperature 16 days	/	6.3	6.3	-	5	a
4698	Epices Salsa	Salsa spices	S. Infantis Ad1646	Environmental sample	Seeding lyophilized room temperature 16 days	/	2.8	2.8	-	5	a
4699	Epices chinoises	Chinese spices	S. Ouakam Ad1647	Environmental sample	Seeding lyophilized room temperature 16 days	/	6.3	6.3	-	5	a
4984	Pépites de chocolat noir (50% cacao)	Black chocolate tablets	S. Typhimurium Ad1682	Chocolate	Spiking HT 8 min 56°C	0.46	5-3-5-2-0 (3.0)	3.0	-	5	a
4985	Billes de chocolat noir (65% de cacao)	Black chocolate tablets	S. Typhimurium Ad2034	Cocoa beans	Spiking HT 8 min 56°C	0.58	2-5-0-5-0 (2.4)	2.4	-	5	a
4986	Billes de chocolat noir (50% de cacao)	Black chocolate tablets	S. Typhimurium Ad2034	Cocoa beans	Spiking HT 8 min 56°C	0.58	2-5-0-5-0 (2.4)	2.4	+	5	a
5620	Estragon	Tarragon	S. Virchow F276	Curry	Spiking HT 8 min 56°C	0.44	2-3-2-2-0 (1.8)	1.8	-	5	a
5621	Poudre de cacao (100%)	Cocoa powder	S. Typhimurium Ad2034	Cocoa beans	Spiking HT 8 min 56°C	0.37	2-3-2-5-2 (2.8)	2.8	-	5	a
4381	Céréales infantiles (à la vanille) avec probiotiques	Cereals with probiotics	S. Montevideo 510	Raw milk	Seeding lyophilized room temperature 18 days	/	<0.3	<0.3	+	5	b
4382	Céréales infantiles (à la vanille) avec probiotiques	Cereals with probiotics	S. Stourbridge Ad2297	Raw milk cheese	Seeding lyophilized room temperature 18 days	/	<0.3	<0.3	+	5	b
4383	Céréales infantiles (5 céréales) avec probiotiques	Cereals with probiotics	S. Stourbridge Ad2297	Raw milk cheese	Seeding lyophilized room temperature 18 days	/	<0.3	<0.3	+	5	b
4384	Céréales infantiles (5 céréales) avec probiotiques	Cereals with probiotics	S. Anatum Ad298	Milk powder	Seeding lyophilized room temperature 18 days	/	<0.3	<0.3	+	5	b
4385	Céréales infantiles (8 céréales) avec probiotiques	Cereals with probiotics	S. Anatum Ad298	Milk powder	Seeding lyophilized room temperature 18 days	/	<0.3	<0.3	-	5	b
4386	Céréales infantiles (au yahourt) avec probiotiques	Cereals with probiotics	S. Montevideo 510	Raw milk	Seeding lyophilized room temperature 18 days	/	<0.3	<0.3	+	5	b
4387	Céréales infantiles avec probiotiques	Cereals with probiotics	S. Stourbridge Ad2297	Raw milk cheese	Seeding lyophilized room temperature 18 days	/	<0.3	<0.3	+	5	b
5622	Lait infantile avec probiotiques	Infant formula with probiotics	S. Anatum Ad298	Milk powder	Spiking HT 8 min 56°C	0.55	4-6-2-3-2 (3.4)	3.4	+	5	b
5623	Lait infantile avec probiotiques	Infant formula with probiotics	S. Cerro Ad2153	Lactoserum	Spiking HT 8 min 56°C	0.40	3-4-3-3-2 (3.0)	3.0	+	5	b
5624	Lait infantile avec probiotiques	Infant formula with probiotics	S. Cerro Ad2153	Lactoserum	Spiking HT 8 min 56°C	0.40	3-4-3-3-2 (3.0)	3	-	5	b
5625	Lait infantile avec probiotiques	Infant formula with probiotics	S. Cerro Ad2153	Lactoserum	Spiking HT 8 min 56°C	0.40	3-4-3-3-2 (3.0)	3	+	5	b
5626	Lait infantile avec probiotiques	Infant formula with probiotics	S. Cerro Ad2150	Lactoserum	Spiking HT 8 min 56°C	0.48	3-4-5-3-5 (4.0)	4	+	5	b
5627	Lait infantile avec probiotiques	Infant formula with probiotics	S. Cerro Ad2150	Lactoserum	Spiking HT 8 min 56°C	0.48	3-4-5-3-5 (4.0)	4	+	5	b
5628	Lait infantile avec probiotiques	Infant formula with probiotics	S. Cerro Ad2150	Lactoserum	Spiking HT 8 min 56°C	0.48	3-4-5-3-5 (4.0)	4	+	5	b

Sample N°	Product (French name)	Product	Artificial contaminations (spiking protocol)						Global result	Category	Type
			Strain	Origin	Injury protocol	Injury measu- rement	Inoculation level/sample				
							Enumeration	Mean			
4395	Poudre d'œuf entier	Whole egg powder	S. Havana Ad1728	Egg product	Seeding lyophilized room temperature 18 days	/	<0.4	<0.4	+	5	c
4396	Poudre de blanc d'œuf	White egg powder	S. Havana Ad1728	Egg product	Seeding lyophilized room temperature 18 days	/	<0.4	<0.4	+	5	c
4397	Poudre de blanc d'œuf	White egg powder	S. Enteritidis 10	White egg powder	Seeding lyophilized room temperature 18 days	/	0.4	0.4	+	5	c
4398	Poudre d'œuf entier	Whole egg powder	S. Enteritidis 10	White egg powder	Seeding lyophilized room temperature 18 days	/	0.4	0.4	-	5	c
4399	Poudre d'œuf entier	Whole egg powder	S. Havana Ad1728	Egg product	Seeding lyophilized room temperature 18 days	/	<0.4	<0.4	-	5	c
4400	Poudre d'œuf pâtissier	Whole egg powder	S. Havana Ad1728	Egg product	Seeding lyophilized room temperature 18 days	/	<0.4	<0.4	+	5	c
4401	Poudre d'œuf pâtissier	Whole egg powder	S. Enteritidis 10	White egg powder	Seeding lyophilized room temperature 18 days	/	0.4	0.4	+	5	c
4730	Jaune d'œuf pasteurisé	Pasteurized egg yolk	S. Infantis 14	Pasteurized whole egg	Spiking HT 8 min 56°C	0.41	3-1-1-0-2 (1.4)	1.4	-	5	c
4731	Jaune d'œuf pasteurisé	Pasteurized egg yolk	S. Mbandaka 81	Egg product	Spiking HT 8 min 56°C	0.42	3-0-5-2-2 (2.4)	2.4	+	5	c
4732	Œuf entier pasteurisé	Pasteurized whole egg	S. Infantis 14	Pasteurized whole egg	Spiking HT 8 min 56°C	0.41	3-1-1-0-2 (1.4)	1.4	-	5	c
4733	Œuf entier pasteurisé	Pasteurized whole egg	S. Mbandaka 81	Egg product	Spiking HT 8 min 56°C	0.42	3-0-5-2-2 (2.4)	2.4	+	5	c
4734	Blanc d'œuf pasteurisé	Pasteurized egg white	S. Infantis 14	Pasteurized whole egg	Spiking HT 8 min 56°C	0.41	3-1-1-0-2 (1.4)	1.4	+	5	c
5629	Jaune d'œuf pasteurisé sucré (50%)	Sweet egg yolk pasteurized egg (50%)	S. Typhimurium Ad1484	Whole egg	Spiking HT 8 min 56°C	0.71	4-2-4-3-3 (3.2)	3.2	+	5	c
5630	Jaune d'œuf pasteurisé salé (10%)	Salted egg yolk pasteurized (10%)	S. Enteritidis 23	Whole egg	Spiking HT 8 min 56°C	0.37	3-1-3-6-1 (2.8)	2.8	+	5	c
1992	Coule d'œuf entier	Pasteurized whole liquid egg	S. Typhimurium 776	Pasteurized liquid egg	Spiking HT 56°C 8min	0.45	4-4-1-5-1	3.0	+	5	c
6458	Saucisson pour chien	Sausage for dog	S. Agona A00V038	Feeding stuff	Spiking HT 8 min 56°C	0.34	3-2-2-3-2	2.4	+	6	a
6459	Saucisson pour chien	Sausage for dog	S. Derby Ad1878	Feeding stuff	Spiking HT 8 min 56°C	0.46	1-4-4-4-3	3.2	+	6	a
6460	Pâté pour chien (poulet/carottes)	Pâté for dog (poultry/carrots)	S. Derby Ad1878	Feeding stuff	Spiking HT 8 min 56°C	0.46	1-4-4-4-3	3.2	+	6	a
6461	Pâté pour chien (poisson/carottes)	Pâté for dog (fish/carrots)	S. Agona A00V038	Feeding stuff	Spiking HT 8 min 56°C	0.34	3-2-2-3-2	2.4	+	6	a
6462	Pâté pour chat (bœuf)	Pâté for cat (beef)	S. Senftenberg Ad2418	Feeding stuff	Spiking HT 8 min 56°C	0.30	2-2-3-1-2	2.0	+	6	a
6463	Pâté pour chat (saumon)	Pâté for cat (salmon)	S. Senftenberg Ad2418	Feeding stuff	Spiking HT 8 min 56°C	0.30	2-2-3-1-2	2.0	+	6	a
8575	Saucisse pour chien	Sausage for dog	S. Montevideo Ad2645	Animal feed	Spiking HT 8 min 56°C	0.49	4-3-1-2-5	3.0	+	6	a
8576	Saucisse pour chien	Sausage for dog	S. Infantis Ad2646	Animal feed	Spiking HT 8 min 56°C	1.03	2-3-4-1-2	2.4	+	6	a
8577	Saucisse pour chien	Sausage for dog	S. Mbandaka Ad2647	Animal feed	Spiking HT 8 min 56°C	0.65	9-8-10-10-12	9.8	+	6	a
8578	Terrine pour chien (bœuf)	Pâté for dog (beef)	S. Montevideo Ad2645	Animal feed	Spiking HT 8 min 56°C	0.49	4-3-1-2-5	3.0	+	6	a
8579	Terrine pour chat (bœuf)	Pâté for cat (beef)	S. Infantis Ad2646	Animal feed	Spiking HT 8 min 56°C	1.03	2-3-4-1-2	2.4	+	6	a
8580	Terrine pour chat (poulet)	Pâté for cat (chicken)	S. Mbandaka Ad2647	Animal feed	Spiking HT 8 min 56°C	0.65	9-8-10-10-12	9.8	+	6	a
8581	Terrine pour chat (saumon)	Pâté for cat (salmon)	S. Montevideo Ad2645	Animal feed	Spiking HT 8 min 56°C	0.49	4-3-1-2-5	3.0	+	6	a
8582	Terrine pour chien (canard/légumes)	Pâté for dog (duck/vegetables)	S. Infantis Ad2646	Animal feed	Spiking HT 8 min 56°C	1.03	2-3-4-1-2	2.4	+	6	a
8583	Terrine pour chien (bœuf/carottes)	Pâté for dog (beef/carrots)	S. Mbandaka Ad2647	Animal feed	Spiking HT 8 min 56°C	0.65	9-8-10-10-12	9.8	+	6	a
8584	Terrine pour chien (volaille)	Pâté for dog (poultry)	S. Montevideo Ad2645	Animal feed	Spiking HT 8 min 56°C	0.49	4-3-1-2-5	3.0	+	6	a
6419	Croquettes chien (bœuf/légumes)	Pellets for dog (beef/vegetables)	S. Infantis 179	Feeding stuff	Seeding lyophilized room temperature 15 days	/	1.3	1.3	+	6	b
6420	Croquettes chien (bœuf)	Pellets for dog (beef)	S. Infantis 179	Feeding stuff	Seeding lyophilized room temperature 15 days	/	1.3	1.3	-	6	b
6421	Croquettes chien (bœuf)	Pellets for dog (beef)	S. Infantis 179	Feeding stuff	Seeding lyophilized room temperature 15 days	/	1.3	1.3	+	6	b
6422	Croquettes chat (lapin/ volaille/ légumes/ céréales)	Pellets for cat (rabbit/ poultry/vegetables/ cereals)	S. Infantis 179	Feeding stuff	Seeding lyophilized room temperature 15 days	/	1.3	1.3	+	6	b
6423	Croquettes chat (saumon/thon/légumes)	Pellets for cat (salmon/ tuna/vegetables)	S. Branderup F286	Feeding stuff	Seeding lyophilized room temperature 15 days	/	1.0	1.0	+	6	b
6424	Croquettes chat (foie)	Pellets for cat (liver)	S. Branderup F286	Feeding stuff	Seeding lyophilized room temperature 15 days	/	1.0	1.0	+	6	b
8514	Aliment pour oiseau	Bird food	S. Infantis Ad2712	Animal feed	Seeding lyophilized strain 2 weeks at room temperature	/	/	0.8	-	6	b
8515	Aliment pour rongeur	Rodent food	S. Noya Ad2715	Animal feed	Seeding lyophilized strain 2 weeks at room temperature	/	/	<0.8	-	6	b
8516	Aliment pour lapin	Rabbit food	S. Llandoff Ad2726	Animal feed	Seeding lyophilized strain 2 weeks at room temperature	/	/	<1.5	-	6	b
8517	Aliment pour cochon d'inde	Guinea pig food	S. Menston Ad2729	Animal feed	Seeding lyophilized strain 2 weeks at room temperature	/	/	<0.4	-	6	b
8518	Croquettes pour chien	Pellets for dog	S. Infantis Ad2712	Animal feed	Seeding lyophilized strain 2 weeks at room temperature	/	/	0.8	-	6	b
8519	Croquettes pour chien	Pellets for dog	S. Noya Ad2715	Animal feed	Seeding lyophilized strain 2 weeks at room temperature	/	/	<0.8	-	6	b
8520	Croquettes pour chien (volaille/légumes/céréales)	Pellets for dog (poultry/ cereals/ vegetables)	S. Llandoff Ad2726	Animal feed	Seeding lyophilized strain 2 weeks at room temperature	/	/	<1.5	-	6	b

Sample N°	Product (French name)	Product	Artificial contaminations (spiking protocol)						Global result	Category	Type
			Strain	Origin	Injury protocol	Injury measu- re-ment	Inoculation level/sample				
							Enumeration	Mean			
8521	Croquettes pour chien	Pellets for dog	S. Menston Ad2729	Animal feed	Seeding lyophilized strain 2 weeks at room temperature	/	/	<0.4	-	6	b
8522	Croquettes pour chat (bœuf/poulet/légumes)	Pellets for cat (beef/ poultry/ vegetables)	S. Infantis Ad2712	Animal feed	Seeding lyophilized strain 2 weeks at room temperature	/	/	0.8	-	6	b
8523	Croquettes pour chat (thon/saumon/légumes/céréales)	Pellets for cat (tuna/ salmon/ cereals/ vegetables)	S. Noya Ad2715	Animal feed	Seeding lyophilized strain 2 weeks at room temperature	/	/	<0.8	-	6	b
8524	Croquettes pour chat (bœuf/poulet/légumes)	Pellets for cat (beef/ poultry/ vegetables)	S. Llandoff Ad2726	Animal feed	Seeding lyophilized strain 2 weeks at room temperature	/	/	<1.5	-	6	b
9107	Aliment pour rongeur	Rodent food	S. Derby Ad1878	Animal feed	Seeding lyophilized strain 1 week at room temperature	/	/	7.5	+	6	b
9108	Aliment pour oiseau	Bird food	S. Derby Ad1878	Animal feed	Seeding lyophilized strain 1 week at room temperature	/	/	7.5	+	6	b
9109	Aliment pour cochon d'Inde	Guinea pig food	S. Braenderup F286	Animal feed	Seeding lyophilized strain 1 week at room temperature	/	/	4.3	+	6	b
9110	Aliment pour cochon d'Inde	Guinea pig food	S. Infantis Ad2712	Animal feed	Seeding lyophilized strain 1 week at room temperature	/	/	2.6	-	6	b
9111	Croquettes pour chat (bœuf/ poulet/ légumes)	Pellets for cat (beef/ poultry/ vegetables)	S. Derby Ad1878	Animal feed	Seeding lyophilized strain 1 week at room temperature	/	/	7.5	+	6	b
9112	Croquettes pour chat (poulet/canard/légumes)	Pellets for cat (chicken/ duck/vegetables)	S. Braenderup F286	Animal feed	Seeding lyophilized strain 1 week at room temperature	/	/	4.3	+	6	b
9113	Croquettes pour chat (bœuf/ volaille/ poisson)	Pellets for cat (beef/ poultry/ fish)	S. Infantis Ad2712	Animal feed	Seeding lyophilized strain 1 week at room temperature	/	/	2.6	-	6	b
9114	Croquettes pour chien (bœuf)	Pellets for dog (beef)	S. Derby Ad1878	Animal feed	Seeding lyophilized strain 1 week at room temperature	/	/	7.5	+	6	b
9115	Croquettes pour chat (bœuf/ poulet/légumes)	Pellets for cat (beef/ poultry/ vegetables)	S. Braenderup F286	Animal feed	Seeding lyophilized strain 1 week at room temperature	/	/	4.3	+	6	b
9116	Croquettes pour chien (poulet/légumes)	Pellets for dog (poultry/ vegetables)	S. Infantis Ad2712	Animal feed	Seeding lyophilized strain 1 week at room temperature	/	/	2.6	-	6	b
9117	Croquettes pour chat (thon/ saumon/ légumes/céréales)	Pellets for cat (tuna/ salmon/ cereals/ vegetables)	S. Infantis Ad2712	Animal feed	Seeding lyophilized strain 1 week at room temperature	/	/	2.6	+	6	b
9624	Croquettes pour chat (thon/ saumon/ légumes/céréales)	Pellets for cat (tuna, salmon, cereals, vegetables)	S. Idikan Ad2648	Animal feed	Spiking HT 8 min 56°C	1.15	5-6-5-4-6	5.2	+	6	b
9625	Croquettes pour chien (bœuf)	Pellets for dog (beef)	S. Idikan Ad2648	Animal feed	Spiking HT 8 min 56°C	1.15	5-6-5-4-6	5.2	+	6	b
7572	Déchets (industrie végétaux)	Residues (vegetables industry)	S. Virchow Ad2569	Zucchini	Seeding 2-8°C 48h	/	5-1-2-4-1	2.6	+	7	a
7573	Déchets (industrie végétaux)	Residues (vegetables industry)	S. Virchow Ad2569	Zucchini	Seeding 2-8°C 48h	/	5-1-2-4-1	2.6	+	7	a
7578	Déchets (industrie poisson)	Residues (fish industry)	S. Urbana Ad2334	Fish fillet	Seeding 2-8°C 48h	/	0-0-3-8-2	2.6	+	7	a
7579	Déchets (industrie poisson)	Residues (fish industry)	S. Saint-paul F31	Fish fillet	Seeding 2-8°C 48h	/	1-3-3-1-2	2.0	+	7	a
7580	Déchets (industrie poisson)	Residues (fish industry)	S. Saint-paul F31	Fish fillet	Seeding 2-8°C 48h	/	1-3-3-1-2	2.0	+	7	a
7581	Déchets (industrie poisson)	Residues (fish industry)	S. Senftenberg Ad355	Seafood	Seeding 2-8°C 48h	/	1-0-3-1-0	1.0	-	7	a
7582	Déchets (industrie poisson)	Residues (fish industry)	S. Senftenberg Ad355	Seafood	Seeding 2-8°C 48h	/	1-0-3-1-0	1.0	+	7	a
7667	Poussières industrie laitière	Dust from dairy industry	S. Heidelberg A00E005	Environmental sample	Spiking HT 8 min 56°C	0.97	2-2-3-1-1	1.8	+	7	a
7668	Poussières industrie laitière	Dust from dairy industry	S. Heidelberg A00E005	Environmental sample	Spiking HT 8 min 56°C	0.97	2-2-3-1-1	1.8	+	7	a
7669	Poussières industrie laitière	Dust from dairy industry	S. Tennessee A00E006	Environmental sample	Spiking HT 8 min 56°C	1.56	2-2-3-0-1	1.6	+	7	a
7670	Poussières industrie laitière	Dust from dairy industry	S. Tennessee A00E006	Environmental sample	Spiking HT 8 min 56°C	1.56	2-2-3-0-1	1.6	+	7	a
7777	Déchets (Charcuterie)	Residues (delicatessen industry)	S. Derby 374	Sausage	Seeding 2-8°C 48h	/	2-1-2-3-2	2.0	-	7	a
7780	Déchets (Charcuterie)	Residues (delicatessen industry)	S. Derby 374	Sausage	Seeding 2-8°C 48h	/	2-1-2-3-2	2.0	-	7	a
7569	Eau de rinçage (industrie végétaux)	Cleaning water (vegetables industry)	S. Virchow Ad2569	Zucchini	Seeding 2-8°C 48h	/	5-1-2-4-1	2.6	+	7	b
7570	Eau de rinçage (industrie végétaux)	Cleaning water (vegetables industry)	S. Virchow Ad2569	Zucchini	Seeding 2-8°C 48h	/	5-1-2-4-1	2.6	+	7	b
7571	Eau de process (industrie porcine)	Process water (vegetables industry)	S. Typhimurium Ad1070	Environmental sample	Seeding 2-8°C 48h	/	0-3-2-3-1	1.8	-	7	b
7574	Eau de process (industrie poisson)	Process water (fish industry)	S. Saint-paul F31	Fish fillet	Seeding 2-8°C 48h	/	1-3-3-1-2	2.0	+	7	b

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7575	Eau de process (industrie poisson)	Process water (fish industry)	S. Senftenberg Ad355	Seafood	Seeding 2-8°C 48h	/	1-0-3-1-0	1.0	+	7	b
7576	Eau de process (industrie poisson)	Process water (fish industry)	S. Urbana Ad2334	Fish fillet	Seeding 2-8°C 48h	/	0-0-3-8-2	2.6	+	7	b
7577	Eau de process (industrie poisson)	Process water (fish industry)	S. Urbana Ad2334	Fish fillet	Seeding 2-8°C 48h	/	0-0-3-8-2	2.6	+	7	b
7773	Eau de rinçage (Charcuterie)	Cleaning water (delicatessen industry)	S. Bredeney 464	Pâté	Seeding 2-8°C 48h	/	2-1-1-5-7	3.2	-	7	b
7774	Eau de rinçage (Charcuterie)	Cleaning water (delicatessen industry)	S. Bredeney 464	Pâté	Seeding 2-8°C 48h	/	2-1-1-5-7	3.2	+	7	b
7775	Eau de rinçage (Charcuterie)	Cleaning water (delicatessen industry)	S. Infantis 288	Pork meat	Seeding 2-8°C 48h	/	9-5-4-2-5	5.0	+	7	b
7661	Lingette ustensiles (industrie végétaux)	Wipe (vegetables industry)	S. Heidelberg A00E005	Environmental sample	Spiking HT 8 min 56°C	0.97	2-2-3-1-1	1.8	+	7	c
7662	Lingette plats pesés (industrie végétaux)	Wipe (vegetables industry)	S. Tennessee A00E006	Environmental sample	Spiking HT 8 min 56°C	1.56	2-2-3-0-1	1.6	+	7	c
7663	Lingette cutter (industrie végétaux)	Wipe (vegetables industry)	S. Heidelberg A00E005	Environmental sample	Spiking HT 8 min 56°C	0.97	2-2-3-1-1	1.8	+	7	c
7664	Lingette cutter (industrie végétaux)	Wipe (vegetables industry)	S. Tennessee A00E006	Environmental sample	Spiking HT 8 min 56°C	1.56	2-2-3-0-1	1.6	-	7	c
7665	Lingette ustensiles (industrie laitière)	Wipe (dairy industry)	S. Heidelberg A00E005	Environmental sample	Spiking HT 8 min 56°C	0.97	2-2-3-1-1	1.8	+	7	c
7666	Lingette table (industrie laitière)	Wipe (dairy industry)	S. Tennessee A00E006	Environmental sample	Spiking HT 8 min 56°C	1.56	2-2-3-0-1	1.6	+	7	c
7786	Lingette (charcuterie)	Wipe (delicatessen industry)	S. Brandenburg Ad2420	Sausage	Spiking pH4 10 days	0.42	0-2-4-3-1	2.0	+	7	c
7787	Lingette (charcuterie)	Wipe (delicatessen industry)	S. Brandenburg Ad2420	Sausage	Spiking pH4 10 days	0.42	0-2-4-3-1	2.0	-	7	c
7788	Lingette après désinfection (charcuterie)	Wipe after cleaning (delicatessen industry)	S. Brandenburg Ad2420	Sausage	Spiking pH4 10 days	0.42	0-2-4-3-1	2.0	+	7	c
7789	Lingette après désinfection (charcuterie)	Wipe after cleaning (delicatessen industry)	S. Kedougou Ad2227	Sausage	Spiking pH4 10 days	0.51	0-2-0-3-2	1.4	+	7	c
7790	Lingette après désinfection (charcuterie)	Wipe after cleaning (delicatessen industry)	S. Kedougou Ad2227	Sausage	Spiking pH4 10 days	0.51	0-2-0-3-2	1.4	+	7	c
3260	Chocolat en poudre (32% de cacao)	Cocoa powder (cocoa 32%)	S. Kentucky Ad1755	Environmental sample	Seeding lyophilized strain 1 week at temperature	/	/	5.3	+	10	a
3261	Chocolat en poudre (32% de cacao)	Cocoa powder (cocoa 32%)	S. Ouakam Ad1647	Environmental sample	Seeding lyophilized strain 1 week at temperature	/	/	2.0	+	10	a
3262	Chocolat en poudre (31.7% de cacao)	Cocoa powder (cocoa 31.7%)	S. Braenderup Ad1661	Chocolate industry	Seeding lyophilized strain 1 week at temperature	/	/	6.0	+	10	a
3263	Chocolat en poudre (31.7% de cacao)	Cocoa powder (cocoa 31.7%)	S. Mbandaka Ad1723	Environmental sample	Seeding lyophilized strain 1 week at temperature	/	/	10.5	+	10	a
3264	Chocolat en poudre (32% de cacao)	Cocoa powder (cocoa 32%)	S. Kentucky Ad1755	Environmental sample	Seeding lyophilized strain 1 week at temperature	/	/	5.3	+	10	a
3265	Chocolat en poudre (32% de cacao)	Cocoa powder (cocoa 32%)	S. Ouakam Ad1647	Environmental sample	Seeding lyophilized strain 1 week at temperature	/	/	2.0	+	10	a
3266	Poudre cacaotée (32% de cacao)	Cocoa powder (cocoa 32%)	S. Braenderup Ad1661	Chocolate industry	Seeding lyophilized strain 1 week at temperature	/	/	6.0	+	10	a
3267	Poudre cacaotée (32% de cacao)	Cocoa powder (cocoa 32%)	S. Mbandaka Ad1723	Environmental sample	Seeding lyophilized strain 1 week at temperature	/	/	10.5	+	10	a
3268	Poudre de cacao (21.3% de cacao)	Cocoa powder (cocoa 21.3%)	S. Kentucky Ad1755	Environmental sample	Seeding lyophilized strain 1 week at temperature	/	/	5.3	+	10	a
3269	Poudre de cacao (21.3% de cacao)	Cocoa powder (cocoa 21.3%)	S. Ouakam Ad1647	Environmental sample	Seeding lyophilized strain 1 week at temperature	/	/	2.0	-	10	a
3270	Chocolat en poudre (32% de cacao)	Cocoa powder (cocoa 32%)	S. Braenderup Ad1661	Chocolate industry	Seeding lyophilized strain 2 weeks at temperature	/	/	2.3	+	10	a
3271	Chocolat en poudre (32% de cacao)	Cocoa powder (cocoa 32%)	S. Mbandaka Ad1723	Environmental sample	Seeding lyophilized strain 2 weeks at temperature	/	/	3.5	+	10	a
3272	Poudre instantanée (20% de cacao)	Cocoa powder (cocoa 20%)	S. Kentucky Ad1755	Environmental sample	Seeding lyophilized strain 2 weeks at temperature	/	/	1.8	+	10	a
3273	Poudre instantanée (20% de cacao)	Cocoa powder (cocoa 20%)	S. Ouakam Ad1647	Environmental sample	Seeding lyophilized strain 2 weeks at temperature	/	/	1.0	+	10	a
3274	Poudre de cacao (32% de cacao)	Cocoa powder (cocoa 32%)	S. Braenderup Ad1661	Chocolate industry	Seeding lyophilized strain 2 weeks at temperature	/	/	2.3	+	10	a
3275	Poudre de cacao (32% de cacao)	Cocoa powder (cocoa 32%)	S. Mbandaka Ad1723	Environmental sample	Seeding lyophilized strain 2 weeks at temperature	/	/	3.5	-	10	a
3276	Poudre de cacao (32% de cacao)	Cocoa powder (cocoa 32%)	S. Kentucky Ad1755	Environmental sample	Seeding lyophilized strain 2 weeks at temperature	/	/	1.8	+	10	a
3277	Poudre de cacao (32% de cacao)	Cocoa powder (cocoa 32%)	S. Ouakam Ad1647	Environmental sample	Seeding lyophilized strain 2 weeks at temperature	/	/	1.0	-	10	a
3278	Poudre de cacao (20% de cacao)	Cocoa powder (cocoa 20%)	S. Braenderup Ad1661	Chocolate industry	Seeding lyophilized strain 2 weeks at temperature	/	/	2.3	+	10	a
3279	Chocolat en poudre (32% de cacao)	Cocoa powder (cocoa 32%)	S. Mbandaka Ad1723	Environmental sample	Seeding lyophilized strain 2 weeks at temperature	/	/	3.5	+	10	a

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							Enumeration	Mean				
3260	Chocolat en poudre (32% de cacao)	Cocoa powder (cocoa 32%)	S. Kentucky Ad1755	Environmental sample	Seeding lyophilized strain 1 week at temperature	/	/	5.3	+	+	10	a
3261	Chocolat en poudre (32% de cacao)	Cocoa powder (cocoa 32%)	S. Ouakam Ad1647	Environmental sample	Seeding lyophilized strain 1 week at temperature	/	/	2.0	+	+	10	a
3262	Chocolat en poudre (31.7% de cacao)	Cocoa powder (cocoa 31.7%)	S. Braenderup Ad1661	Chocolate industry	Seeding lyophilized strain 1 week at temperature	/	/	6.0	+	+	10	a
3263	Chocolat en poudre (31.7% de cacao)	Cocoa powder (cocoa 31.7%)	S. Mbandaka Ad1723	Environmental sample	Seeding lyophilized strain 1 week at temperature	/	/	10.5	+	-	10	a
3264	Chocolat en poudre (32% de cacao)	Cocoa powder (cocoa 32%)	S. Kentucky Ad1755	Environmental sample	Seeding lyophilized strain 1 week at temperature	/	/	5.3	+	+	10	a
3265	Chocolat en poudre (32% de cacao)	Cocoa powder (cocoa 32%)	S. Ouakam Ad1647	Environmental sample	Seeding lyophilized strain 1 week at temperature	/	/	2.0	+	+	10	a
3266	Poudre cacaotée (32% de cacao)	Cocoa powder (cocoa 32%)	S. Braenderup Ad1661	Chocolate industry	Seeding lyophilized strain 1 week at temperature	/	/	6.0	+	-	10	a
3267	Poudre cacaotée (32% de cacao)	Cocoa powder (cocoa 32%)	S. Mbandaka Ad1723	Environmental sample	Seeding lyophilized strain 1 week at temperature	/	/	10.5	+	+	10	a
3268	Poudre de cacao (21.3% de cacao)	Cocoa powder (cocoa 21.3%)	S. Kentucky Ad1755	Environmental sample	Seeding lyophilized strain 1 week at temperature	/	/	5.3	+	+	10	a
3269	Poudre de cacao (21.3% de cacao)	Cocoa powder (cocoa 21.3%)	S. Ouakam Ad1647	Environmental sample	Seeding lyophilized strain 1 week at temperature	/	/	2.0	-	-	10	a
3270	Chocolat en poudre (32% de cacao)	Cocoa powder (cocoa 32%)	S. Braenderup Ad1661	Chocolate industry	Seeding lyophilized strain 2 weeks at temperature	/	/	2.3	+	+	10	a
3271	Chocolat en poudre (32% de cacao)	Cocoa powder (cocoa 32%)	S. Mbandaka Ad1723	Environmental sample	Seeding lyophilized strain 2 weeks at temperature	/	/	3.5	+	-	10	a
3272	Poudre insta²ntanée (20% de cacao)	Cocoa powder (cocoa 20%)	S. Kentucky Ad1755	Environmental sample	Seeding lyophilized strain 2 weeks at temperature	/	/	1.8	+	+	10	a
3273	Poudre instantanée (20% de cacao)	Cocoa powder (cocoa 20%)	S. Ouakam Ad1647	Environmental sample	Seeding lyophilized strain 2 weeks at temperature	/	/	1.0	+	-	10	a
3274	Poudre de cacao (32% de cacao)	Cocoa powder (cocoa 32%)	S. Braenderup Ad1661	Chocolate industry	Seeding lyophilized strain 2 weeks at temperature	/	/	2.3	+	+	10	a
3275	Poudre de cacao (32% de cacao)	Cocoa powder (cocoa 32%)	S. Mbandaka Ad1723	Environmental sample	Seeding lyophilized strain 2 weeks at temperature	/	/	3.5	-	-	10	a
3276	Poudre de cacao (32% de cacao)	Cocoa powder (cocoa 32%)	S. Kentucky Ad1755	Environmental sample	Seeding lyophilized strain 2 weeks at temperature	/	/	1.8	+	+	10	a
3277	Poudre de cacao (32% de cacao)	Cocoa powder (cocoa 32%)	S. Ouakam Ad1647	Environmental sample	Seeding lyophilized strain 2 weeks at temperature	/	/	1.0	-	-	10	a
3278	Poudre de cacao (20% de cacao)	Cocoa powder (cocoa 20%)	S. Braenderup Ad1661	Chocolate industry	Seeding lyophilized strain 2 weeks at temperature	/	/	2.3	+	+	10	a
3279	Chocolat en poudre (32% de cacao)	Cocoa powder (cocoa 32%)	S. Mbandaka Ad1723	Environmental sample	Seeding lyophilized strain 2 weeks at temperature	/	/	3.5	+	+	10	a
6691	Chocolat blanc	White chocolate	S. Virchow F276	Curry	Seeding lyophilized strains 12 days at room temperature	/	/	1.0	-	/	10	b
6692	Chocolat blanc	White chocolate	S. Infantis Ad1646	Environmental sample	Seeding lyophilized strains 12 days at room temperature	/	/	0.6	+	/	10	b
6693	Chocolat noir	Dark chocolate	S. Typhimurium Ad1682	Chocolate	Seeding lyophilized strains 12 days at room temperature	/	/	0.8	+	/	10	b
6694	Chocolat noisette	Nuts chocolate	S. Virchow F276	Curry	Seeding lyophilized strains 12 days at room temperature	/	/	1.0	+	/	10	b
6695	Chocolat noisette	Nuts chocolate	S. Infantis Ad1646	Environmental sample	Seeding lyophilized strains 12 days at room temperature	/	/	0.6	+	/	10	b
6696	Chocolat au lait	Milk chocolate	S. Typhimurium Ad1682	Chocolate	Seeding lyophilized strains 12 days at room temperature	/	/	0.8	+	/	10	b
6697	Chocolat au lait	Milk chocolate	S. Virchow F276	Curry	Seeding lyophilized strains 12 days at room temperature	/	/	1.0	+	/	10	b
6698	Chocolat noir (65% cacao)	Dark chocolate (65% cocoa)	S. Infantis Ad1646	Environmental sample	Seeding lyophilized strains 12 days at room temperature	/	/	0.6	+	/	10	b
6699	Chocolat de couverture (75% cacao)	Couverture chocolate (75% cocoa)	S. Typhimurium Ad1682	Chocolate	Seeding lyophilized strains 12 days at room temperature	/	/	0.8	+	/	10	b
6700	Chocolat boulanger (44% cacao)	Chocolate for bakery (44% cocoa)	S. Virchow F276	Curry	Seeding lyophilized strains 12 days at room temperature	/	/	1.0	-	/	10	b
4261	Chocolat noir (50% cacao)	Dark chocolate (50% cocoa)	S. Anatum A00E007	Environmental sample	Seeding lyophilized strain 2 weeks at room temperature	/	/	6.25	/	-	10	b

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4262	Chocolat lait-caramel (31% cacao)	Milk chocolate and caramel (31% cocoa)	S. Anatum A00E007	Environmental sample	Seeding lyophilized strain 2 weeks at room temperature	/	/	6.3	/	+	10	b
4263	Chocolat au lait (47% cacao)	Milk chocolate (47% cocoa)	S. Virchow F276	Curry	Seeding lyophilized strain 2 weeks at room temperature	/	/	2.6	/	+	10	b
4264	Chocolat noir (50% cacao)	Dark chocolate (50% cocoa)	S. Virchow F276	Curry	Seeding 2 weeks at room temperature	/	27-25-27-31-22	26.4	/	-	10	b
4265	Chocolat noir (65% cacao)	Dark chocolate (65% cocoa)	S. Virchow F276	Curry	Seeding 2 weeks at room temperature	/	27-25-27-31-22	26.4	/	-	10	b
5372	Chocolat noir	Dark chocolate	S. Agona Ad1483	Tiramisu	Spiking heat treatment 8 minutes 56°C	0.53	2-3-1-4-4	2.8	/	+	10	b
5373	Chocolat noir	Dark chocolate	S. Ouakam Ad1647	Compost	Spiking heat treatment 8 minutes 56°C	0.82	3-5-7-2-6	4.6	/	+	10	b
5374	Chocolat noir	Dark chocolate	S. Typhimurium Ad1682	Chocolate	Spiking heat treatment 8 minutes 56°C	0.76	6-6-1-6-3	4.4	/	-	10	b
5375	Chocolat blanc	White chocolate	S. Typhimurium Ad1682	Chocolate	Spiking heat treatment 8 minutes 56°C	0.76	6-6-1-6-3	4.4	/	+	10	b
5376	Chocolat blanc	White chocolate	S. Mbandaka Ad1723	Compost	Spiking heat treatment 8 minutes 56°C	1.10	1-1-0-0-0	0.4	/	+	10	b
5377	Chocolat blanc	White chocolate	S. Agona Ad1483	Tiramisu	Spiking heat treatment 8 minutes 56°C	0.53	2-3-1-4-4	2.8	/	+	10	b
5378	Chocolat au lait	Milk chocolate	S. Agona Ad1483	Tiramisu	Spiking heat treatment 8 minutes 56°C	0.53	2-3-1-4-4	2.8	/	+	10	b
5379	Chocolat au lait	Milk chocolate	S. Ouakam Ad1647	Compost	Spiking heat treatment 8 minutes 56°C	0.82	3-5-7-2-6	4.6	/	+	10	b
5380	Chocolat au lait	Milk chocolate	S. Typhimurium Ad1682	Chocolate	Spiking heat treatment 8 minutes 56°C	0.76	6-6-1-6-3	4.4	/	+	10	b
5381	Chocolat noisette	Nut chocolate	S. Ouakam Ad1647	Compost	Spiking heat treatment 8 minutes 56°C	0.82	3-5-7-2-6	4.6	/	+	10	b
5382	Chocolat noisette	Nut chocolate	S. Mbandaka Ad1723	Compost	Spiking heat treatment 8 minutes 56°C	1.10	1-1-0-0-0	0.4	/	+	10	b
6681	Fèves de cacao	Cocoa beans	S. Havana Ad2728	Plants	Seeding lyophilized strains 6 days at room temperature	/	/	<0.4	+	+	10	c
6682	Liqueur de cacao nature	Natural cocoa liquor	S. Mbandaka Ad1544	Environmental sample	Seeding lyophilized strains 6 days at room temperature	/	/	2.3	-	-	10	c
6683	Beurre de cacao	Cocoa butter	S. Panama Ad1733	Plants	Seeding 6 days at room temperature	/	11-4-13-4-10	7.4	+	+	10	c
6684	Beurre de cacao désodorisé	Deodorized cocoa butter	S. Panama Ad1733	Plants	Seeding 6 days at room temperature	/	11-4-13-4-10	7.4	-	-	10	c
6685	Beurre de cacao non désodorisé	Non deodorized cocoa butter	S. Agona Ad1725	Plants	Seeding 6 days at room temperature	/	8-14-9-8-8	8.4	-	-	10	c
6686	Masse de cacao	Cocoa mass	S. Havana Ad2728	Plants	Seeding lyophilized strains 6 days at room temperature	/	/	<0.4	-	-	10	c
6688	Masse de cacao	Cocoa mass	S. Mbandaka Ad1544	Environmental sample	Seeding lyophilized strains 6 days at room temperature	/	/	2.3	+	+	10	c
6689	Masse de cacao	Cocoa mass	S. Mbandaka Ad1544	Environmental sample	Seeding lyophilized strains 6 days at room temperature	/	/	2.3	-	-	10	c
6690	Masse de cacao	Cocoa mass	S. Mbandaka Ad1544	Environmental sample	Seeding lyophilized strains 6 days at room temperature	/	/	2.3	+	+	10	c
7700	Masse de cacao	Cocoa mass	S. Typhimurium Ad2034	Cocoa beans	Spiking HT 8min 56°C	1.70	7-7-8-5-5	6.4	+	+	10	c
7701	Masse de cacao	Cocoa mass	S. Typhimurium Ad2034	Cocoa beans	Spiking HT 8min 56°C	1.70	7-7-8-5-5	6.4	+	+	10	c
7702	Masse de cacao	Cocoa mass	S. Mkamba Ad1544	Environmental sample	Spiking HT 8min 56°C	2.90	5-4-10-5-2	5.2	+	/	10	c
7703	Beurre de cacao	Cocoa butter	S. Mkamba Ad1544	Environmental sample	Spiking HT 8min 56°C	2.90	5-4-10-5-2	5.2	+	/	10	c
4256	Beurre de cacao	Cocoa butter	S. Anatum A00E007	Environmental sample	Seeding 2 weeks at room temperature	/	10-17-13-11-7	11.6	/	-	10	c
4257	Fèves de cacao	Cocoa beans	S. Anatum A00E007	Environmental sample	Seeding lyophilized strain 2 weeks at room temperature	/	/	6.25	/	-	10	c
4258	Crumbs	Crumbs	S. Virchow F276	Curry	Seeding lyophilized strain 2 weeks at room temperature	/	/	2.6	/	+	10	c
4259	Crumbs	Crumbs	S. Anatum A00E007	Environmental sample	Seeding lyophilized strain 2 weeks at room temperature	/	/	6.25	/	-	10	c
4260	Liqueur de cacao	Cocoa liquor	S. Anatum A00E007	Environmental sample	Seeding 2 weeks at room temperature	/	19-23-17-19-21	19.8	-	-	10	c
6681	Fèves de cacao	Cocoa beans	S. Havana Ad2728	Plants	Seeding lyophilized strains 6 days at room temperature	/	/	<0.4	+	+	10	c
6682	Liqueur de cacao nature	Natural cocoa liquor	S. Mbandaka Ad1544	Environmental sample	Seeding lyophilized strains 6 days at room temperature	/	/	2.3	-	-	10	c
6683	Beurre de cacao	Cocoa butter	S. Panama Ad1733	Plants	Seeding 6 days at room temperature	/	11-4-13-4-10	7.4	+	+	10	c
6684	Beurre de cacao désodorisé	Deodorized cocoa butter	S. Panama Ad1733	Plants	Seeding 6 days at room temperature	/	11-4-13-4-10	7.4	-	-	10	c

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							Enumeration	Mean				
6685	Beurre de cacao non désodorisé	Non deodorized cocoa butter	S. Agona Ad1725	Plants	Seeding 6 days at room temperature	/	8-14-9-8-8	8.4	-	-	10	c
6686	Masse de cacao	Cocoa mass	S. Havana Ad2728	Plants	Seeding lyophilized strains 6 days at room temperature	/	/	<0.4	-	-	10	c
6687	Masse de cacao	Cocoa mass	S. Havana Ad2728	Plants	Seeding lyophilized strains 6 days at room temperature	/	/	<0.4	/	+	10	c
6688	Masse de cacao	Cocoa mass	S. Mbandaka Ad1544	Environmental sample	Seeding lyophilized strains 6 days at room temperature	/	/	2.3	+	+	10	c
6689	Masse de cacao	Cocoa mass	S. Mbandaka Ad1544	Environmental sample	Seeding lyophilized strains 6 days at room temperature	/	/	2.3	-	-	10	c
6690	Masse de cacao	Cocoa mass	S. Mbandaka Ad1544	Environmental sample	Seeding lyophilized strains 6 days at room temperature	/	/	2.3	+	+	10	c
7700	Masse de cacao	Cocoa mass	S. Typhimurium Ad2034	Cocoa beans	Spiking HT 8min 56°C	1.70	7-7-8-5-5	6.4	+	+	10	c
7701	Masse de cacao	Cocoa mass	S. Typhimurium Ad2034	Cocoa beans	Spiking HT 8min 56°C	1.70	7-7-8-5-5	6.4	+	+	10	c

Sample N°	Product (French name)	Product	Artificial contaminations (spiking protocol)						Global result	Category	Type
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4487	Poudre de lait écrémé	Skim milk powder	S. Infantis 401B	Raw milk	Seeding 2 weeks at room temperature	/	/	<3.1	+	11	a
4488	Poudre de lait écrémé	Skim milk powder	S. Infantis 401B	Raw milk	Seeding 2 weeks at room temperature	/	/	<3.1	+	11	a
4489	Poudre de lait écrémé	Skim milk powder	S. Montevideo Ad912	Raw milk	Seeding 2 weeks at room temperature	/	/	<1.3	+	11	a
4490	Poudre de lait demi-écrémé	Half-skim milk powder	S. Montevideo Ad912	Raw milk	Seeding 2 weeks at room temperature	/	/	<1.3	+	11	a
4491	Lait en poudre	Milk powder	S. Mbandaka Ad2296	Raw milk	Seeding 2 weeks at room temperature	/	/	3.0	+	11	a
5540	Lait entier en poudre	Milk powder	S. Cerro Ad2707	Milk powder	Seeding 2 weeks at room temperature	/	/	0.8	+	11	a
5541	Lait en poudre écrémé	Skim milk powder	S. Cerro Ad2707	Milk powder	Seeding 2 weeks at room temperature	/	/	0.8	+	11	a
5542	Lait en poudre écrémé	Skim milk powder	S. Anatum Ad2706	Milk powder	Seeding 2 weeks at room temperature	/	/	0.4	+	11	a
5543	Lait en poudre écrémé	Skim milk powder	S. Anatum Ad2706	Milk powder	Seeding 2 weeks at room temperature	/	/	0.4	-	11	a
5544	Lait en poudre écrémé	Skim milk powder	S. Livingstone Ad2705	Milk powder	Seeding 2 weeks at room temperature	/	/	<1.7	-	11	a
7194	Lait en poudre écrémé	Skim milk powder	S. Tennessee Ad1171	Dairy product	Seeding 2 weeks at room temperature	/	/	0.3	-	11	a
7195	Lait en poudre écrémé	Skim milk powder	S. Norwich Ad1172	Dairy product	Seeding 2 weeks at room temperature	/	/	0.8	+	11	a
7196	Lait en poudre écrémé	Skim milk powder	S. Anatum Ad2718	Dairy product	Seeding 2 weeks at room temperature	/	/	1.1	+	11	a
7197	Lait en poudre écrémé	Skim milk powder	S. Tennessee Ad1171	Dairy product	Seeding 2 weeks at room temperature	/	/	0.3	+	11	a
7198	Lait en poudre demi-écrémé	Half-skim milk powder	S. Norwich Ad1172	Dairy product	Seeding 2 weeks at room temperature	/	/	0.8	+	11	a
4492	Lait infantile sans probiotiques	Infant formula without probiotics	S. Mbandaka Ad2296	Raw milk	Seeding 2 weeks at room temperature	/	/	3.0	+	11	b
4493	Lait infantile sans probiotiques	Infant formula without probiotics	S. Mbandaka Ad2296	Raw milk	Seeding 2 weeks at room temperature	/	/	3.0	+	11	b
4494	Lait infantile sans probiotiques	Infant formula without probiotics	S. Virchow Ad1721	Infant cereals	Seeding 2 weeks at room temperature	/	/	0.8	+	11	b
4495	Lait infantile sans probiotiques	Infant formula without probiotics	S. Virchow Ad1721	Infant cereals	Seeding 2 weeks at room temperature	/	/	0.8	+	11	b
4496	Lait infantile sans probiotiques	Infant formula without probiotics	S. Virchow Ad1721	Infant cereals	Seeding 2 weeks at room temperature	/	/	0.8	+	11	b
5545	Lait infantile sans probiotiques	Infant formula without probiotics	S. Cerro Ad2707	Milk powder	Seeding 2 weeks at room temperature	/	/	0.8	+	11	b
5546	Lait infantile sans probiotiques	Infant formula without probiotics	S. Cerro Ad2707	Milk powder	Seeding 2 weeks at room temperature	/	/	0.8	+	11	b
5547	Lait infantile sans probiotiques	Infant formula without probiotics	S. Anatum Ad2706	Milk powder	Seeding 2 weeks at room temperature	/	/	0.4	+	11	b
5548	Lait infantile sans probiotiques	Infant formula without probiotics	S. Livingstone Ad2705	Milk powder	Seeding 2 weeks at room temperature	/	/	<1.7	+	11	b
5549	Lait infantile sans probiotiques	Infant formula without probiotics	S. Livingstone Ad2705	Milk powder	Seeding 2 weeks at room temperature	/	/	<1.7	+	11	b
4497	Lait infantile avec probiotiques (3.2x10 ⁶ UFC/g)	Infant formula with probiotics (3.2x10 ⁶ CFU/g)	S. Virchow Ad1721	Infant cereals	Seeding 2 weeks at room temperature	/	/	0.8	+	11	c
4498	Lait infantile avec probiotiques (6.4x10 ⁵ UFC/g)	Infant formula with probiotics (6.4x10 ⁵ CFU/g)	S. Virchow Ad1721	Infant cereals	Seeding 2 weeks at room temperature	/	/	0.8	+	11	c
4499	Lait infantile avec probiotiques (5.2x10 ⁶ UFC/g)	Infant formula with probiotics (5.2x10 ⁶ CFU/g)	S. Infantis 401B	Raw milk	Seeding 2 weeks at room temperature	/	/	<3.1	-	11	c
4500	Lait infantile avec probiotiques (2.3x10 ⁶ UFC/g)	Infant formula with probiotics (2.3x10 ⁶ CFU/g)	S. Montevideo Ad912	Raw milk	Seeding 2 weeks at room temperature	/	/	<1.3	+	11	c
4501	Lait infantile avec probiotiques (2.0x10 ⁵ UFC/g)	Infant formula with probiotics (2.0x10 ⁵ CFU/g)	S. Mbandaka Ad2296	Raw milk	Seeding 2 weeks at room temperature	/	/	3.0	+	11	c
5550	Lait infantile avec probiotiques (2.0x10 ⁷ CFU/g)	Infant formula with probiotics (2.0x10 ⁷ CFU/g)	S. Cerro Ad2707	Milk powder	Seeding 2 weeks at room temperature	/	/	0.8	+	11	c
5551	Lait infantile avec probiotiques (2.4x10 ⁵ CFU/g)	Infant formula with probiotics (2.4x10 ⁵ CFU/g)	S. Cerro Ad2707	Milk powder	Seeding 2 weeks at room temperature	/	/	0.8	+	11	c
5552	Lait infantile avec probiotiques (3.0x10 ⁵ CFU/g)	Infant formula with probiotics (3.0x10 ⁵ CFU/g)	S. Anatum Ad2706	Milk powder	Seeding 2 weeks at room temperature	/	/	0.4	+	11	c
5553	Lait infantile avec probiotiques (1.4x10 ⁷ CFU/g)	Infant formula with probiotics (1.4x10 ⁷ CFU/g)	S. Anatum Ad2706	Milk powder	Seeding 2 weeks at room temperature	/	/	0.4	+	11	c
5554	Lait infantile avec probiotiques (1.0x10 ⁷ CFU/g)	Infant formula with probiotics (1.0x10 ⁷ CFU/g)	S. Livingstone Ad2705	Milk powder	Seeding 2 weeks at room temperature	/	/	<1.7	+	11	c
5555	Lait infantile avec probiotiques (6.7x10 ⁶ CFU/g)	Infant formula with probiotics (6.7x10 ⁶ CFU/g)	S. Livingstone Ad2705	Milk powder	Seeding 2 weeks at room temperature	/	/	<1.7	+	11	c

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6458	Saucisson pour chien	Sausage for dog	S. Agona A00V038	Feeding stuff	Spiking HT 8 min 56°C	0.34	3-2-2-3-2 (2.4)	2.4	+	+	12	a
6459	Saucisson pour chien	Sausage for dog	S. Derby Ad1878	Feeding stuff	Spiking HT 8 min 56°C	0.46	1-4-4-4-3 (3.2)	3.2	+	+	12	a
6460	Pâté pour chien (poulet/carottes)	Pâté for dog (poultry/carrots)	S. Derby Ad1878	Feeding stuff	Spiking HT 8 min 56°C	0.46	1-4-4-4-3 (3.2)	3.2	+	+	12	a
6461	Pâté pour chien (poisson/carottes)	Pâté for dog (fish/carrots)	S. Agona A00V038	Feeding stuff	Spiking HT 8 min 56°C	0.34	3-2-2-3-2 (2.4)	2.4	+	+	12	a
6462	Pâté pour chat (bœuf)	Pâté for cat (beef)	S. Senftenberg Ad2418	Feeding stuff	Spiking HT 8 min 56°C	0.30	2-2-3-1-2 (2.0)	2	+	+	12	a
6463	Pâté pour chat (saumon)	Pâté for cat (salmon)	S. Senftenberg Ad2418	Feeding stuff	Spiking HT 8 min 56°C	0.30	2-2-3-1-2 (2.0)	2	+	+	12	a
8575	Saucisse pour chien	Sausage for dog	S. Montevideo Ad2645	Animal feed	Spiking HT 8 min 56°C	0.49	4-3-1-2-5	3.0	+	+	12	a
8576	Saucisse pour chien	Sausage for dog	S. Infantis Ad2646	Animal feed	Spiking HT 8 min 56°C	1.03	2-3-4-1-2	2.4	+	+	12	a
8577	Saucisse pour chien	Sausage for dog	S. Mbandaka Ad2647	Animal feed	Spiking HT 8 min 56°C	0.65	9-8-10-10-12	9.8	+	+	12	a
8578	Terrine pour chien (bœuf)	Pâté for dog (beef)	S. Montevideo Ad2645	Animal feed	Spiking HT 8 min 56°C	0.49	4-3-1-2-5	3.0	+	+	12	a
8579	Terrine pour chat (bœuf)	Pâté for cat (beef)	S. Infantis Ad2646	Animal feed	Spiking HT 8 min 56°C	1.03	2-3-4-1-2	2.4	+	+	12	a
8580	Terrine pour chat (poulet)	Pâté for cat (chicken)	S. Mbandaka Ad2647	Animal feed	Spiking HT 8 min 56°C	0.65	9-8-10-10-12	9.8	+	+	12	a
8581	Terrine pour chat (saumon)	Pâté for cat (salmon)	S. Montevideo Ad2645	Animal feed	Spiking HT 8 min 56°C	0.49	4-3-1-2-5	3.0	+	+	12	a
8582	Terrine pour chien (canard/légumes)	Pâté for dog (duck/vegetables)	S. Infantis Ad2646	Animal feed	Spiking HT 8 min 56°C	1.03	2-3-4-1-2	2.4	+	+	12	a
8583	Terrine pour chien (bœuf/carottes)	Pâté for dog (beef/carrots)	S. Mbandaka Ad2647	Animal feed	Spiking HT 8 min 56°C	0.65	9-8-10-10-12	9.8	+	+	12	a
8584	Terrine pour chien (volaille)	Pâté for dog (poultry)	S. Montevideo Ad2645	Animal feed	Spiking HT 8 min 56°C	0.49	4-3-1-2-5	3.0	+	+	12	a
6419	Croquettes chien (bœuf/légumes)	Pellets for dog (beef/vegetables)	S. Infantis 179	Feeding stuff	Seeding lyophilized room temperature 15 days	/	1.3	1.3	+	+	12	b
6420	Croquettes chien (bœuf)	Pellets for dog (beef)	S. Infantis 179	Feeding stuff	Seeding lyophilized room temperature 15 days	/	1.3	1.3	-	-	12	b
6421	Croquettes chien (bœuf)	Pellets for dog (beef)	S. Infantis 179	Feeding stuff	Seeding lyophilized room temperature 15 days	/	1.3	1.3	+	+	12	b
6422	Croquettes chat (lapin/volaille/légumes/céréales)	Pellets for cat (rabbit/poultry/vegetables/cereals)	S. Infantis 179	Feeding stuff	Seeding lyophilized room temperature 15 days	/	1.3	1.3	+	+	12	b
6423	Croquettes chat (saumon/thon/légumes)	Pellets for cat (salmon/tuna/vegetables)	S. Branderup F286	Feeding stuff	Seeding lyophilized room temperature 15 days	/	1.0	1.0	+	+	12	b
6424	Croquettes chat (foie)	Pellets for cat (liver)	S. Branderup F286	Feeding stuff	Seeding lyophilized room temperature 15 days	/	1.0	1.0	+	+	12	b
8514	Aliment pour oiseau	Bird food	S. Infantis Ad2712	Animal feed	Seeding lyophilized strain 2 weeks at room temperature	/	/	0.8	-	-	12	b
8515	Aliment pour rongeur	Rodent food	S. Noya Ad2715	Animal feed	Seeding lyophilized strain 2 weeks at room temperature	/	/	<0.8	-	-	12	b
8516	Aliment pour lapin	Rabbit food	S. Llandoff Ad2726	Animal feed	Seeding lyophilized strain 2 weeks at room temperature	/	/	<1.5	-	-	12	b
8517	Aliment pour cochon d'inde	Guinea pig food	S. Menston Ad2729	Animal feed	Seeding lyophilized strain 2 weeks at room temperature	/	/	<0.4	-	-	12	b
8518	Croquettes pour chien	Pellets for dog	S. Infantis Ad2712	Animal feed	Seeding lyophilized strain 2 weeks at room temperature	/	/	0.8	-	-	12	b
8519	Croquettes pour chien	Pellets for dog	S. Noya Ad2715	Animal feed	Seeding lyophilized strain 2 weeks at room temperature	/	/	<0.8	+	-	12	b
8520	Croquettes pour chien (volaille/légumes/céréales)	Pellets for dog (poultry, cereals, vegetables)	S. Llandoff Ad2726	Animal feed	Seeding lyophilized strain 2 weeks at room temperature	/	/	<1.5	+	+	12	b
8521	Croquettes pour chien	Pellets for dog	S. Menston Ad2729	Animal feed	Seeding lyophilized strain 2 weeks at room temperature	/	/	<0.4	+	-	12	b
8522	Croquettes pour chat (bœuf/poulet/légumes)	Pellets for cat (beef, poultry, vegetables)	S. Infantis Ad2712	Animal feed	Seeding lyophilized strain 2 weeks at room temperature	/	/	0.8	+	+	12	b
8523	Croquettes pour chat (thon/saumon/légumes/céréales)	Pellets for cat (tuna, salmon, cereals, vegetables)	S. Noya Ad2715	Animal feed	Seeding lyophilized strain 2 weeks at room temperature	/	/	<0.8	+	+	12	b
8524	Croquettes pour chat (bœuf/poulet/légumes)	Pellets for cat (beef, poultry, vegetables)	S. Llandoff Ad2726	Animal feed	Seeding lyophilized strain 2 weeks at room temperature	/	/	<1.5	-	-	12	b
9118	Croquettes pour chien (poulet/riz/céréales)	Pellets for dog (poultry/rice/cereals)	S. Infantis Ad2712	Animal feed	Seeding lyophilized strain 2 weeks at room temperature	/	/	1.5		+	12	b

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9119	Croquettes pour chaton (volaille/légumes/lait)	Pellets for cat (poultry/vegetables/milk)	S. Noya Ad2715	Animal feed	Seeding lyophilized strain 2 weeks at room temperature	/	/	2.1		-	12	b
9120	Croquettes pour chien (saumon/avoine)	Pellets for dog (salmon/oat)	S. Noya Ad2715	Animal feed	Seeding lyophilized strain 2 weeks at room temperature	/	/	2.1	+	+	12	b
9121	Croquettes pour chat (saumon/orge)	Pellets for cat (salmon/barley)	S. Llandoff Ad2726	Animal feed	Seeding lyophilized strain 2 weeks at room temperature	/	/	1.6	+	-	12	b
9122	Croquettes pour chien (poulet/orge)	Pellets for dog (poultry/barley)	S. Llandoff Ad2726	Animal feed	Seeding lyophilized strain 2 weeks at room temperature	/	/	1.6	+	+	12	b
9123	Croquettes pour chien (poulet/riz)	Pellets for dog (chicken/rice)	S. Menston Ad2729	Animal feed	Seeding lyophilized strain 2 weeks at room temperature	/	/	2.1	-	-	12	b
9124	Croquettes pour chien (poulet/légumes/riz)	Pellets for dog (chicken/vegetables/rice)	S. Menston Ad2729	Animal feed	Seeding lyophilized strain 2 weeks at room temperature	/	/	2.1	-	-	12	b
9125	Croquettes pour chien (bœuf)	Pellets for dog (beef)	S. Infantis Ad2712	Animal feed	Seeding lyophilized strain 2 weeks at room temperature	/	/	1.5	-	-	12	b
9521	Aliment pour lapin	Rabbit food	S. Livingstone F104	Animal feed	Spiking HT 8 min 56°C	1.06	5-6-5-3-4	4.6		+	12	b
9522	Aliment pour cochon d'inde	Guinea pig food	S. Livingstone F104	Animal feed	Spiking HT 8 min 56°C	1.06	5-6-5-3-4	4.6		+	12	b
9523	Aliment pour canari	Bird food	S. Idikan Ad2648	Animal feed	Spiking HT 8 min 56°C	1.21	5-5-4-5-1	4.0	+	+	12	b
9524	Aliment pour lapin	Rabbit food	S. Poona Ad2330	Animal feed	Spiking HT 8 min 56°C	1.10	4-0-4-1-1	2.0	+	+	12	b
9525	Aliment pour rongeur	Rodent food	S. Poona Ad2330	Animal feed	Spiking HT 8 min 56°C	1.10	4-0-4-1-1	2.0	-	-	12	b
9622	Croquettes pour chat (thon/saumon/légumes/céréales)	Pellets for cat (tuna, salmon, cereals, vegetables)	S. Livingstone F104	Animal feed	Spiking HT 8 min 56°C	0.45	4-3-6-5-6	4.8		+	12	b
9623	Croquettes pour chien (bœuf)	Pellets for dog (beef)	S. Poona Ad2330	Animal feed	Spiking HT 8 min 56°C	0.75	5-6-4-6-5	5.2		+	12	b

Sample N°	Product (French name)	Product	Artificial contaminations (spiking protocol)						Global result	Category	Type
			Strain	Origin	Injury protocol	Injury measu- re-ment	Inoculation level/sample				
							Enumeration	Mean			
4643	Poudre de lait écrémé	Skim milk powder	S. Typhimurium 4	Milk powder	Seeding lyophilized strain 2 weeks at room temperature	/	/	6	+	13	a
4644	Poudre de lait écrémé	Skim milk powder	S. Typhimurium 4	Milk powder	Seeding lyophilized strain 2 weeks at room temperature	/	/	6	+	13	a
4645	Poudre de lait écrémé	Skim milk powder	S. Anatum 26	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	/	/	8	+	13	a
4646	Poudre de lait écrémé	Skim milk powder	S. Anatum 26	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	/	/	8	+	13	a
4647	Poudre de lait entier	Whole milk powder	S. Montevideo 604	Raw milk	Seeding lyophilized strain 2 weeks at room temperature	/	/	7	+	13	a
4648	Poudre de lait écrémé	Skim milk powder	S. Montevideo 604	Raw milk	Seeding lyophilized strain 2 weeks at room temperature	/	/	7	+	13	a
4673	Poudre de lait infantile 1er âge	Infant formula without probiotics	S. Cerro Ad2152	Whey	Seeding lyophilized strain 2 weeks at room temperature	/	/	4.5	+	13	a
4674	Poudre de lait infantile 2ème âge	Infant formula without probiotics	S. Mbandaka Ad1722	Raw milk	Seeding lyophilized strain 2 weeks at room temperature	/	/	4.2	-	13	a
4675	Poudre de lait infantile bio 1er âge	Infant formula without probiotics	S. Norwich Ad1172	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	/	/	4	+	13	a
4676	Poudre de lait infantile	Infant formula without probiotics	S. Typhimurium 4	Milk powder	Seeding lyophilized strain 2 weeks at room temperature	/	/	6	+	13	a
4677	Poudre de lait infantile relais	Infant formula without probiotics	S. Montevideo 604	Raw milk	Seeding lyophilized strain 2 weeks at room temperature	/	/	7	+	13	a
4678	Poudre de lait infantile	Infant formula without probiotics	S. Livingstone Ad1170	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	/	/	1.5	-	13	a
4649	Céréales au miel	Infant cereals without probiotics	S. Kasenyi Ad2921	Sprouts	Seeding lyophilized strain 2 weeks at room temperature	/	/	4	-	13	b
4650	Céréales biscuit	Infant cereals without probiotics	S. Kasenyi Ad2921	Sprouts	Seeding lyophilized strain 2 weeks at room temperature	/	/	4	+	13	b
4651	Céréales choco biscuitées	Infant cereals without probiotics	S. Odozi	Cocoa beans	Seeding lyophilized strain 2 weeks at room temperature	/	/	2.4	+	13	b
4652	Céréales vanille	Infant cereals without probiotics	S. Odozi	Cocoa beans	Seeding lyophilized strain 2 weeks at room temperature	/	/	2.4	+	13	b
4653	3 céréales (riz, blé, avoine)	Infant cereals without probiotics	S. Oranienburg Ad1724	Infant cereals	Seeding lyophilized strain 2 weeks at room temperature	/	/	4.6	+	13	b
4654	Céréales vanille, quinoa	Infant cereals without probiotics	S. Oranienburg Ad1724	Infant cereals	Seeding lyophilized strain 2 weeks at room temperature	/	/	4.6	+	13	b
4655	Céréales blé, avoine	Infant cereals without probiotics	S. Agona Ad1725	Infant cereals	Seeding lyophilized strain 2 weeks at room temperature	/	/	3	+	13	b
4656	Avoine, blé, riz	Infant cereals without probiotics	S. Agona Ad1725	Infant cereals	Seeding lyophilized strain 2 weeks at room temperature	/	/	3	+	13	b
4657	Céréales vanille	Infant cereals without probiotics	S. Agona Ad1725	Infant cereals	Seeding lyophilized strain 2 weeks at room temperature	/	/	3	+	13	b
4658	Céréales saveur biscuit	Infant cereals without probiotics	S. Panama Ad1733	Infant cereals	Seeding lyophilized strain 2 weeks at room temperature	/	/	1.5	+	13	b
4659	Céréales vanille	Infant cereals without probiotics	S. Panama Ad1733	Infant cereals	Seeding lyophilized strain 2 weeks at room temperature	/	/	1.5	+	13	b
4660	Multicéréales	Infant cereals without probiotics	S. Panama Ad1733	Infant cereals	Seeding lyophilized strain 2 weeks at room temperature	/	/	1.5	+	13	b
4661	Maltodextrine	Maltodextrin	S. Anatum 26	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	/	/	8	+	13	c
4662	Maltodextrine	Maltodextrin	S. Anatum 26	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	/	/	8	+	13	c
4663	Maltodextrine	Maltodextrin	S. Livingstone Ad1170	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	/	/	1.5	+	13	c
4664	Amidon de blé	Starch	S. Livingstone Ad1170	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	/	/	1.5	-	13	c

Sample N°	Product (French name)	Product	Artificial contaminations (spiking protocol)						Global result	Category	Type
			Strain	Origin	Injury protocol	Injury measu- rement	Inoculation level/sample				
							Enumeration	Mean			
4665	Amidon	Starch	S. Norwich Ad1172	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	/	/	4	+	13	c
4666	Amidon	Starch	S. Norwich Ad1172	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	/	/	4	-	13	c
4667	Caséinate de sodium	Caseinate	S. Cerro Ad2152	Whey	Seeding lyophilized strain 2 weeks at room temperature	/	/	4.5	+	13	c
4668	Caséinate de sodium	Caseinate	S. Mbandaka Ad1722	Raw milk	Seeding lyophilized strain 2 weeks at room temperature	/	/	4.2	+	13	c
4669	Lactose	Lactose	S. Cerro Ad2152	Whey	Seeding lyophilized strain 2 weeks at room temperature	/	/	4.5	+	13	c
4670	Lactose	Lactose	S. Livingstone Ad1170	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	/	/	1.5	+	13	c
4671	Lactosérum	Whey	S. Norwich Ad1172	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	/	/	4	+	13	c
4672	Lactosérum	Whey	S. Mbandaka Ad1722	Raw milk	Seeding lyophilized strain 2 weeks at room temperature	/	/	4.2	+	13	c
4679	Lait infantile avec probiotiques (2.7 x 10 ⁵ UFC/g)	Infant formula with probiotics (2.7 x 10 ⁵ CFU/g)	S. Cerro Ad2152	Whey	Seeding lyophilized strain 2 weeks at room temperature	/	/	4.5	+	14	a
4680	Lait infantile avec probiotiques (1.6 x 10 ⁵ UFC/g)	Infant formula with probiotics (1.6 x 10 ⁵ CFU/g)	S. Mbandaka Ad1722	Raw milk	Seeding lyophilized strain 2 weeks at room temperature	/	/	4.2	+	14	a
4681	Lait infantile avec probiotiques (1.8 x 10 ⁴ UFC/g)	Infant formula with probiotics (1.8 x 10 ⁴ CFU/g)	S. Montevideo 604	Raw milk	Seeding lyophilized strain 2 weeks at room temperature	/	/	7	+	14	a
4682	Lait infantile avec probiotiques (6.7 x 10 ³ UFC/g)	Infant formula with probiotics (6.7 x 10 ³ CFU/g)	S. Typhimurium 4	Milk powder	Seeding lyophilized strain 2 weeks at room temperature	/	/	6	+	14	a
4683	Lait infantile avec probiotiques (1.9 x 10 ⁴ UFC/g)	Infant formula with probiotics (1.9 x 10 ⁴ CFU/g)	S. Anatum 26	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	/	/	8	+	14	a
4684	Lait infantile avec probiotiques (4.6 x 10 ³ UFC/g)	Infant formula with probiotics (4.6 x 10 ³ CFU/g)	S. Anatum 26	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	/	/	8	+	14	a
4685	Lait infantile avec probiotiques (2.1 x 10 ⁴ UFC/g)	Infant formula with probiotics (2.1 x 10 ⁴ CFU/g)	S. Montevideo 604	Raw milk	Seeding lyophilized strain 2 weeks at room temperature	/	/	7	+	14	a
4686	Lait infantile avec probiotiques (1.8 x 10 ⁴ UFC/g)	Infant formula with probiotics (1.8 x 10 ⁴ CFU/g)	S. Montevideo 604	Raw milk	Seeding lyophilized strain 2 weeks at room temperature	/	/	7	+	14	a
4687	Lait infantile avec probiotiques (6.8 x 10 ⁵ UFC/g)	Infant formula with probiotics (6.8 x 10 ⁵ CFU/g)	S. Livingstone Ad1170	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	/	/	1.5	+	14	a
4688	Lait infantile avec probiotiques (7.0 x 10 ⁵ UFC/g)	Infant formula with probiotics (7.0 x 10 ⁵ CFU/g)	S. Livingstone Ad1170	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	/	/	1.5	+	14	a
4689	Lait infantile avec probiotiques (3.2 x 10 ⁶ UFC/g)	Infant formula with probiotics (3.2 x 10 ⁶ CFU/g)	S. Norwich Ad1172	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	/	/	4	+	14	a
4690	Lait infantile avec probiotiques (3.0 x 10 ⁵ UFC/g)	Infant formula with probiotics (3.0 x 10 ⁵ CFU/g)	S. Norwich Ad1172	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	/	/	4	+	14	a
4691	Lait infantile avec probiotiques (3.0 x 10 ⁴ UFC/g)	Infant formula with probiotics (3.0 x 10 ⁴ CFU/g)	S. Cerro Ad2152	Whey	Seeding lyophilized strain 2 weeks at room temperature	/	/	4.5	+	14	a
4692	Lait infantile avec probiotiques (1.6 x 10 ⁶ UFC/g)	Infant formula with probiotics (1.6 x 10 ⁶ CFU/g)	S. Cerro Ad2152	Whey	Seeding lyophilized strain 2 weeks at room temperature	/	/	4.5	+	14	a
4693	Lait infantile avec probiotiques (6.0 x 10 ⁴ UFC/g)	Infant formula with probiotics (6.0 x 10 ⁴ CFU/g)	S. Mbandaka Ad1722	Raw milk	Seeding lyophilized strain 2 weeks at room temperature	/	/	4.2	+	14	a
4694	Lait infantile avec probiotiques (1.4 x 10 ⁴ UFC/g)	Infant formula with probiotics (1.4 x 10 ⁴ CFU/g)	S. Mbandaka Ad1722	Raw milk	Seeding lyophilized strain 2 weeks at room temperature	/	/	4.2	+	14	a
4695	Lait infantile avec probiotiques (2.5 x 10 ⁵ UFC/g)	Infant formula with probiotics (2.5 x 10 ⁵ CFU/g)	S. Livingstone Ad1170	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	/	/	1.5	+	14	a
4696	Céréales infantiles avec probiotiques (8.8 x 10 ⁴ UFC/g)	Infant cereals with probiotics (8.8 x 10 ⁴ CFU/g)	S. Kasenyi Ad2921	Sprouts	Seeding lyophilized strain 2 weeks at room temperature	/	/	4	+	14	b
4697	Céréales infantiles avec probiotiques (2.5 x 10 ⁵ UFC/g)	Infant cereals with probiotics (2.5 x 10 ⁵ CFU/g)	S. Kasenyi Ad2921	Sprouts	Seeding lyophilized strain 2 weeks at room temperature	/	/	4	+	14	b
4698	Céréales infantiles avec probiotiques (1.1 x 10 ⁵ UFC/g)	Infant cereals with probiotics (1.1 x 10 ⁵ CFU/g)	S. Kasenyi Ad2921	Sprouts	Seeding lyophilized strain 2 weeks at room temperature	/	/	4	+	14	b

Sample N°	Product (French name)	Product	Artificial contaminations (spiking protocol)						Global result	Category	Type
			Strain	Origin	Injury protocol	Injury measu- re-ment	Inoculation level/sample				
							Enumeration	Mean			
4699	Céréales infantiles avec probiotiques (2.1 x 10 ⁴ UFC/g)	Infant cereals with probiotics (2.1 x 10 ⁴ CFU/g)	S. Kasenyi Ad2921	Sprouts	Seeding lyophilized strain 2 weeks at room temperature	/	/	4	+	14	b
4700	Céréales infantiles avec probiotiques (6.7 x 10 ⁵ UFC/g)	Infant cereals with probiotics (6.7 x 10 ⁵ CFU/g)	S. Odozi	Cocoa beans	Seeding lyophilized strain 2 weeks at room temperature	/	/	2.4	+	14	b
4701	Céréales infantiles avec probiotiques (5.6 x 10 ⁵ UFC/g)	Infant cereals with probiotics (5.6 x 10 ⁵ CFU/g)	S. Odozi	Cocoa beans	Seeding lyophilized strain 2 weeks at room temperature	/	/	2.4	+	14	b
4702	Céréales infantiles avec probiotiques (7.8 x 10 ⁵ UFC/g)	Infant cereals with probiotics (7.8 x 10 ⁵ CFU/g)	S. Odozi	Cocoa beans	Seeding lyophilized strain 2 weeks at room temperature	/	/	2.4	+	14	b
4703	Céréales infantiles avec probiotiques (1.3 x 10 ⁴ UFC/g)	Infant cereals with probiotics (1.3 x 10 ⁴ CFU/g)	S. Odozi	Cocoa beans	Seeding lyophilized strain 2 weeks at room temperature	/	/	2.4	+	14	b
4704	Céréales infantiles avec probiotiques (3.1 x 10 ⁴ UFC/g)	Infant cereals with probiotics (3.1 x 10 ⁴ CFU/g)	S. Oranienburg Ad1724	Infant cereals	Seeding lyophilized strain 2 weeks at room temperature	/	/	4.6	+	14	b
4705	Céréales infantiles avec probiotiques (3.6 x 10 ⁴ UFC/g)	Infant cereals with probiotics (3.6 x 10 ⁴ CFU/g)	S. Oranienburg Ad1724	Infant cereals	Seeding lyophilized strain 2 weeks at room temperature	/	/	4.6	+	14	b
4706	Céréales infantiles avec probiotiques (4.0 x 10 ⁴ UFC/g)	Infant cereals with probiotics (4.0 x 10 ⁴ CFU/g)	S. Oranienburg Ad1724	Infant cereals	Seeding lyophilized strain 2 weeks at room temperature	/	/	4.6	+	14	b
4707	Céréales infantiles avec probiotiques (8.3 x 10 ³ UFC/g)	Infant cereals with probiotics (8.3 x 10 ³ CFU/g)	S. Oranienburg Ad1724	Infant cereals	Seeding lyophilized strain 2 weeks at room temperature	/	/	4.6	+	14	b
4708	Céréales infantiles avec probiotiques (1.6 x 10 ⁴ UFC/g)	Infant cereals with probiotics (1.6 x 10 ⁴ CFU/g)	S. Agona Ad1725	Infant cereals	Seeding lyophilized strain 2 weeks at room temperature	/	/	3	+	14	b
4709	Céréales infantiles avec probiotiques (8.0 x 10 ³ UFC/g)	Infant cereals with probiotics (8.0 x 10 ³ CFU/g)	S. Agona Ad1725	Infant cereals	Seeding lyophilized strain 2 weeks at room temperature	/	/	3	+	14	b
4710	Céréales infantiles avec probiotiques (3.6 x 10 ⁴ UFC/g)	Infant cereals with probiotics (3.6 x 10 ⁴ CFU/g)	S. Agona Ad1725	Infant cereals	Seeding lyophilized strain 2 weeks at room temperature	/	/	3	+	14	b
4711	Céréales infantiles avec probiotiques (1.8 x 10 ⁴ UFC/g)	Infant cereals with probiotics (1.8 x 10 ⁴ CFU/g)	S. Panama Ad1733	Infant cereals	Seeding lyophilized strain 2 weeks at room temperature	/	/	1.5	+	14	b
4712	Céréales infantiles avec probiotiques (1.4 x 10 ⁴ UFC/g)	Infant cereals with probiotics (1.4 x 10 ⁴ CFU/g)	S. Panama Ad1733	Infant cereals	Seeding lyophilized strain 2 weeks at room temperature	/	/	1.5	-	14	b

Year of analyse	Sample N°	Product (French name)	Product	Artificial contaminations (spiking protocol)				Global result	Category	Type
				Strain	Origin	Injury protocol	Inoculation level/ sample			
							Mean			
2018	4878	Poudre de lait écrémé	Skim milk powder	S. Anatum Ad1167	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	2.6	-	15	a
2018	4879	Poudre de lait écrémé	Skim milk powder	S. Indiana Ad174	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	4	+	15	a
2018	4880	Poudre de lait écrémé	Skim milk powder	S. Ohio Ad1482	Raw milk	Seeding lyophilized strain 2 weeks at room temperature	2.6	+	15	a
2018	4881	Poudre de lait demi écrémé	Half-skim milk powder	S. Mbandaka Ad1810	Cheese	Seeding lyophilized strain 2 weeks at room temperature	2.5	+	15	a
2018	4882	Poudre de lait entier	Whole milk powder	S. Anatum Ad1167	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	2.6	+	15	a
2018	4883	Poudre de lait écrémé	Skim milk powder	S. Indiana Ad174	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	4	+	15	a
2018	4884	Lait infantile sans probiotiques	Infant formula without probiotics	S. Ohio Ad1482	Raw milk	Seeding lyophilized strain 2 weeks at room temperature	2.6	+	15	a
2018	4885	Lait infantile sans probiotiques	Infant formula without probiotics	S. Mbandaka Ad1810	Cheese	Seeding lyophilized strain 2 weeks at room temperature	2.5	+	15	a
2018	4886	Lait infantile sans probiotiques	Infant formula without probiotics	S. Anatum Ad1167	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	2.6	+	15	a
2018	4887	Lait infantile sans probiotiques	Infant formula without probiotics	S. Indiana Ad174	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	4	+	15	a
2018	4888	Lait infantile sans probiotiques	Infant formula without probiotics	S. Ohio Ad1482	Raw milk	Seeding lyophilized strain 2 weeks at room temperature	2.6	+	15	a
2018	4889	Lait infantile sans probiotiques	Infant formula without probiotics	S. Mbandaka Ad1810	Cheese	Seeding lyophilized strain 2 weeks at room temperature	2.5	+	15	a
2018	4890	Céréales infantiles sans probiotiques	Infant cereals without probiotics	S. Livingstone Ad2566	Vegetables	Seeding lyophilized strain 2 weeks at room temperature	5.3	+	15	a
2018	4891	Céréales infantiles sans probiotiques	Infant cereals without probiotics	S. Virchow Ad2569	Vegetables	Seeding lyophilized strain 2 weeks at room temperature	1	+	15	a
2018	4892	Céréales infantiles sans probiotiques	Infant cereals without probiotics	S. Havana Ad2725	Vegetables	Seeding lyophilized strain 2 weeks at room temperature	2.6	+	15	a
2018	4893	Céréales infantiles sans probiotiques	Infant cereals without probiotics	S. Livingstone Ad2566	Vegetables	Seeding lyophilized strain 2 weeks at room temperature	5.3	+	15	a
2018	4894	Céréales infantiles sans probiotiques	Infant cereals without probiotics	S. Virchow Ad2569	Vegetables	Seeding lyophilized strain 2 weeks at room temperature	1	+	15	a
2018	4895	Céréales infantiles sans probiotiques	Infant cereals without probiotics	S. Havana Ad2725	Vegetables	Seeding lyophilized strain 2 weeks at room temperature	2.6	+	15	a
2018	4896	Céréales infantiles avec probiotiques (8.0 x 10 ³ UFC/g)	Infant cereals with probiotics (8.0 x 10 ³ CFU/g)	S. Livingstone Ad2566	Vegetables	Seeding lyophilized strain 2 weeks at room temperature	5.3	+	15	b
2018	4897	Céréales infantiles avec probiotiques (1.2 x 10 ⁴ UFC/g)	Infant cereals with probiotics (1.2 x 10 ⁴ CFU/g)	S. Virchow Ad2569	Vegetables	Seeding lyophilized strain 2 weeks at room temperature	1	+	15	b
2018	4898	Céréales infantiles avec probiotiques (1.3 x 10 ⁴ UFC/g)	Infant cereals with probiotics (1.3 x 10 ⁴ CFU/g)	S. Havana Ad2725	Vegetables	Seeding lyophilized strain 2 weeks at room temperature	2.6	+	15	b
2018	4899	Céréales infantiles avec probiotiques (8.4 x 10 ³ UFC/g)	Infant cereals with probiotics (8.4 x 10 ³ CFU/g)	S. Livingstone Ad2566	Vegetables	Seeding lyophilized strain 2 weeks at room temperature	5.3	+	15	b
2018	4900	Céréales infantiles avec probiotiques (7.9 x 10 ³ UFC/g)	Infant cereals with probiotics (7.9 x 10 ³ CFU/g)	S. Virchow Ad2569	Vegetables	Seeding lyophilized strain 2 weeks at room temperature	1	+	15	b
2018	4901	Céréales infantiles avec probiotiques (1.2 x 10 ⁴ UFC/g)	Infant cereals with probiotics (1.2 x 10 ⁴ CFU/g)	S. Havana Ad2725	Vegetables	Seeding lyophilized strain 2 weeks at room temperature	2.6	+	15	b
2018	4902	Céréales infantiles avec probiotiques (9.1 x 10 ³ UFC/g)	Infant cereals with probiotics (9.1 x 10 ³ CFU/g)	S. Havana Ad2725	Vegetables	Seeding lyophilized strain 2 weeks at room temperature	2.6	+	15	b
2018	4903	Céréales infantiles avec probiotiques (5.8 x 10 ³ UFC/g)	Infant cereals with probiotics (5.8 x 10 ³ CFU/g)	S. Virchow Ad2569	Vegetables	Seeding lyophilized strain 2 weeks at room temperature	1	+	15	b
2018	4904	Lait infantile avec probiotiques (4.5 x 10 ⁵ UFC/g)	Infant formula with probiotics (4.5 x 10 ⁵ CFU/g)	S. Anatum Ad1167	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	2.6	+	15	b
2018	4905	Lait infantile avec probiotiques (3.2 x 10 ⁵ UFC/g)	Infant formula with probiotics (3.2 x 10 ⁵ CFU/g)	S. Indiana Ad174	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	4	+	15	b
2018	4906	Lait infantile avec probiotiques (3.0 x 10 ⁵ UFC/g)	Infant formula with probiotics (3.0 x 10 ⁵ CFU/g)	S. Ohio Ad1482	Raw milk	Seeding lyophilized strain 2 weeks at room temperature	2.6	+	15	b
2018	4907	Lait infantile avec probiotiques (3.7 x 10 ⁴ UFC/g)	Infant formula with probiotics (3.7 x 10 ⁴ CFU/g)	S. Mbandaka Ad1810	Cheese	Seeding lyophilized strain 2 weeks at room temperature	2.5	+	15	b
2018	4908	Lait infantile avec probiotiques (4.2 x 10 ⁴ UFC/g)	Infant formula with probiotics (4.2 x 10 ⁴ CFU/g)	S. Anatum Ad1167	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	2.6	+	15	b
2018	4909	Lait infantile avec probiotiques (5.1 x 10 ⁴ UFC/g)	Infant formula with probiotics (5.1 x 10 ⁴ CFU/g)	S. Indiana Ad174	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	4	+	15	b
2018	4910	Lait infantile avec probiotiques (3.1 x 10 ⁵ UFC/g)	Infant formula with probiotics (3.1 x 10 ⁵ CFU/g)	S. Ohio Ad1482	Raw milk	Seeding lyophilized strain 2 weeks at room temperature	2.6	+	15	b

Year of analyse	Sample N°	Product (French name)	Product	Artificial contaminations (spiking protocol)				Global result	Category	Type
				Strain	Origin	Injury protocol	Inoculation level/ sample			
							Mean			
2018	4911	Lait infantile avec probiotiques (7.1 x 10 ⁶ UFC/g)	Infant formula with probiotics (7.1 x 10 ⁶ CFU/g)	S. Mbandaka Ad1810	Cheese	Seeding lyophilized strain 2 weeks at room temperature	2.5	-	15	b
2018	4986	Maltodextrine	Maltodextrin	S. Anatum Ad1168	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	3.9	-	15	c
2018	4987	Lactoserum	Whey	S. Anatum Ad1168	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	3.9	-	15	c
2018	4988	Caséine	Casein	S. Agona Ad1483	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	2	+	15	c
2018	4989	Lactose	Lactose	S. Agona Ad1483	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	2	-	15	c
2018	4990	Amidon	Starch	S. Mikawasima Ad1811	Raw milk	Seeding lyophilized strain 2 weeks at room temperature	4.6	+	15	c
2018	4991	Caséinate	Caseinate	S. Mikawasima Ad1811	Raw milk	Seeding lyophilized strain 2 weeks at room temperature	4.6	+	15	c
2018	4992	Maltodextrine	Maltodextrin	S. Duisburg Ad1812	Raw milk	Seeding lyophilized strain 2 weeks at room temperature	4.5	+	15	c
2018	4993	Amidon	Starch	S. Duisburg Ad1812	Raw milk	Seeding lyophilized strain 2 weeks at room temperature	4.5	+	15	c
2018	4994	Lactose	Lactose	S. Heidelberg A00E005	Environmental sample	Seeding lyophilized strain 2 weeks at room temperature	1.2	-	15	c
2018	4995	Lactoserum	Whey	S. Heidelberg A00E005	Environmental sample	Seeding lyophilized strain 2 weeks at room temperature	1.2	-	15	c
2018	4996	Caséine	Casein	S. Tennessee A00E006	Environmental sample	Seeding lyophilized strain 2 weeks at room temperature	1.5	-	15	c
2018	4997	Maltodextrine	Maltodextrin	S. Tennessee A00E006	Environmental sample	Seeding lyophilized strain 2 weeks at room temperature	1.5	+	15	c
2018	4998	Lactose	Lactose	S. Anatum Ad1168	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	3.9	-	15	c
2018	4999	Lactoserum	Whey	S. Agona Ad1483	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	2	-	15	c
2018	5000	Amidon	Starch	S. Heidelberg A00E005	Environmental sample	Seeding lyophilized strain 2 weeks at room temperature	1.2	+	15	c
2018	5001	Lactose	Lactose	S. Mikawasima Ad1811	Raw milk	Seeding lyophilized strain 2 weeks at room temperature	4.6	+	15	c
2018	5002	Maltodextrine	Maltodextrin	S. Agona Ad1483	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	2	+	15	c
2018	5003	Lactose	Lactose	S. Tennessee A00E006	Environmental sample	Seeding lyophilized strain 2 weeks at room temperature	1.5	+	15	c
2018	5004	Caséine	Casein	S. Anatum Ad1168	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	3.9	-	15	c
2018	5005	Amidon	Starch	S. Mikawasima Ad1811	Raw milk	Seeding lyophilized strain 2 weeks at room temperature	4.6	+	15	c
2018	5006	Amidon	Starch	S. Tennessee A00E006	Environmental sample	Seeding lyophilized strain 2 weeks at room temperature	1.5	-	15	c
2018	5007	Maltodextrine	Maltodextrin	S. Tennessee A00E006	Environmental sample	Seeding lyophilized strain 2 weeks at room temperature	1.5	+	15	c
2018	5008	Lactose	Lactose	S. Duisburg Ad1812	Raw milk	Seeding lyophilized strain 2 weeks at room temperature	4.5	+	15	c
2018	5009	Caséinate	Caseinate	S. Heidelberg A00E005	Environmental sample	Seeding lyophilized strain 2 weeks at room temperature	1.2	+	15	c
2018	5010	Lactoserum	Whey	S. Duisburg Ad1812	Raw milk	Seeding lyophilized strain 2 weeks at room temperature	4.5	-	15	c
2018	5011	Amidon	Starch	S. Agona Ad1483	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	2	-	15	c
2018	5012	Amidon	Starch	S. Anatum Ad1168	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	3.9	-	15	c
2018	5013	Lactoserum	Whey	S. Heidelberg A00E005	Environmental sample	Seeding lyophilized strain 2 weeks at room temperature	1.2	-	15	c
2018	5014	Maltodextrine	Maltodextrin	S. Mikawasima Ad1811	Raw milk	Seeding lyophilized strain 2 weeks at room temperature	4.6	+	15	c
2018	5015	Caséine	Casein	S. Anatum Ad1168	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	3.9	-	15	c
2018	5016	Lactose	Lactose	S. Duisburg Ad1812	Raw milk	Seeding lyophilized strain 2 weeks at room temperature	4.5	+	15	c
2018	5017	Lactoserum	Whey	S. Agona Ad1483	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	2	+	15	c
2018	5948	Amidon	Starch	S. Anatum Ad2718	Dairy product	Spiking HT 8min 56°C	5.0	+	15	c
2018	5949	Amidon	Starch	S. Agona Ad1483	Dairy product	Spiking HT 8min 56°C	5.0	+	15	c
2018	5950	Amidon	Starch	S. Montevideo 606	Dairy product	Spiking HT 8min 56°C	4.8	+	15	c
2018	5951	Amidon	Starch	S. Tennessee Ad1171	Dairy product	Spiking HT 8min 56°C	4.4	+	15	c
2018	5952	Amidon	Starch	S. Anatum Ad2718	Dairy product	Spiking HT 8min 56°C	5.0	+	15	c
2018	5953	Amidon	Starch	S. Agona Ad1483	Dairy product	Spiking HT 8min 56°C	5.0	+	15	c
2018	5954	Caseinate	Caseinate	S. Montevideo 606	Dairy product	Spiking HT 8min 56°C	4.8	+	15	c
2018	5955	Caseinate	Caseinate	S. Tennessee Ad1171	Dairy product	Spiking HT 8min 56°C	4.4	+	15	c
2018	5956	Maltodextrine	Maltodextrin	S. Anatum Ad2718	Dairy product	Spiking HT 8min 56°C	5.0	+	15	c
2018	5957	Maltodextrine	Maltodextrin	S. Agona Ad1483	Dairy product	Spiking HT 8min 56°C	5.0	+	15	c
2018	5958	Lactose	Lactose	S. Montevideo 606	Dairy product	Spiking HT 8min 56°C	4.8	+	15	c

Year of analyse	Sample N°	Product (French name)	Product	Artificial contaminations (spiking protocol)				Global result	Category	Type
				Strain	Origin	Injury protocol	Inoculation level/ sample			
							Mean			
2018	5959	Lactose	Lactose	S. Tennessee Ad1171	Dairy product	Spiking HT 8min 56°C	4.4	+	15	c
2018	5960	Lactose	Lactose	S. Anatum Ad2718	Dairy product	Spiking HT 8min 56°C	5.0	+	15	c
2018	5961	Lactose	Lactose	S. Agona Ad1483	Dairy product	Spiking HT 8min 56°C	5.0	+	15	c
2018	5962	Lactoserum	Whey	S. Montevideo 606	Dairy product	Spiking HT 8min 56°C	4.8	+	15	c
2018	5963	Lactoserum	Whey	S. Tennessee Ad1171	Dairy product	Spiking HT 8min 56°C	4.4	-	15	c
2018	5964	Lactoserum	Whey	S. Anatum Ad2718	Dairy product	Spiking HT 8min 56°C	5.0	+	15	c
2018	5965	Lactoserum	Whey	S. Agona Ad1483	Dairy product	Spiking HT 8min 56°C	5.0	+	15	c
2019	5381	Poudre de lait 0% MG	Milk powder 0% fat	S. Agona Ad2922	Milk powder	Seeding lyophilized strain 2 weeks at room temperature	0.4	-	15	c
2019	5382	Poudre de lait 0% MG	Milk powder 0% fat	S. Goldcoast Ad3006	Milk powder	Seeding lyophilized strain 2 weeks at room temperature	0.7	-	15	c
2019	5387	Poudre de lait 0% MG	Milk powder 0% fat	S. Agona Ad2922	Milk powder	Seeding lyophilized strain 2 weeks at room temperature	0.4	-	15	c
2019	5388	Poudre de lait 0% MG	Milk powder 0% fat	S. Goldcoast Ad3006	Milk powder	Seeding lyophilized strain 2 weeks at room temperature	0.7	-	15	c
2019	5389	Poudre de lait 26% MG	Milk powder 26% fat	S. Goldcoast Ad3006	Milk powder	Seeding lyophilized strain 2 weeks at room temperature	0.7	+	15	c
2019	5390	Poudre de lait 26% MG	Milk powder 26% fat	S. Typhimurium 4	Milk powder	Seeding lyophilized strain 2 weeks at room temperature	0.5	-	15	c
2019	5391	Poudre de lait 0.8% MG	Milk powder 0.8% fat	S. Agona Ad2922	Milk powder	Seeding lyophilized strain 2 weeks at room temperature	0.4	-	15	c
2019	5392	Poudre de lait 14% MG	Milk powder 14% fat	S. Agona Ad2922	Milk powder	Seeding lyophilized strain 2 weeks at room temperature	0.4	+	15	c
2019	5393	Poudre de lait 26% MG	Milk powder 26% fat	S. Agona Ad2922	Milk powder	Seeding lyophilized strain 2 weeks at room temperature	0.4	+	15	c
2019	5394	Poudre de lait 0.8% MG	Milk powder 0.8% fat	S. Goldcoast Ad3006	Milk powder	Seeding lyophilized strain 2 weeks at room temperature	3.0	-	15	c
2019	5679	Poudre de lait haute densité 0.6-0.6% MG	High density milk powder 0.6-0.7% fat	S. Agona Ad2922	Milk powder	Seeding lyophilized strain 2 weeks at room temperature	1.5	+	15	c
2019	5680	Poudre de lait haute densité 0.6-0.6% MG	High density milk powder 0.6-0.7% fat	S. Goldcoast Ad3006	Milk powder	Seeding lyophilized strain 2 weeks at room temperature	3.0	+	15	c
2019	5681	Poudre de lait basse densité 0.6-0.7% MG	Low density milk powder 0.6-0.7% fat	S. Typhimurium 4	Milk powder	Seeding lyophilized strain 2 weeks at room temperature	3.0	+	15	c
2019	5682	Poudre de lait basse densité 0.6-0.7% MG	Low density milk powder 0.6-0.7% fat	S. Agona Ad2922	Milk powder	Seeding lyophilized strain 2 weeks at room temperature	1.5	+	15	c
2019	5683	Poudre de lait 26% MG	Milk powder 26% fat	S. Agona Ad2922	Milk powder	Seeding lyophilized strain 2 weeks at room temperature	1.5	+	15	c
2019	5684	Poudre de lait 26% MG	Milk powder 26% fat	S. Typhimurium 4	Milk powder	Seeding lyophilized strain 2 weeks at room temperature	3.0	+	15	c
2019	5685	Poudre de lait 0% MG	Milk powder 0% fat	S. Goldcoast Ad3006	Milk powder	Seeding lyophilized strain 2 weeks at room temperature	3.0	+	15	c
2019	5686	Poudre de lait 0% MG	Milk powder 0% fat	S. Agona Ad2922	Milk powder	Seeding lyophilized strain 2 weeks at room temperature	1.5	+	15	c
2019	5687	Poudre de lait 0.8% MG	Milk powder 0.8% fat	S. Goldcoast Ad3006	Milk powder	Seeding lyophilized strain 2 weeks at room temperature	3.0	+	15	c
2019	5688	Poudre de lait 14%MG	Milk powder 14% fat	S. Goldcoast Ad3006	Milk powder	Seeding lyophilized strain 2 weeks at room temperature	3.0	+	15	c

Year of analyse	Sample N°	Product (French name)	Product	Artificial contaminations						Global result	Category	Type
				Strain	Origin	Injury protocol	Injury measurement	Inoculation level/sample				
								Enumeration	Mean			
2020	2730	Fécès volaille	Poultry feces	S. Agama Ad2949	Poultry feces	Seeding 24h at ambient temperature	/	4-4-2-4-4	3.6	+	16	a
2020	2731	Fécès volaille	Poultry feces	S. Agama Ad2949	Poultry feces	Seeding 24h at ambient temperature	/	4-4-2-4-4	3.6	+	16	a
2020	2732	Fécès volaille	Poultry feces	S. Agama Ad2949	Poultry feces	Seeding 24h at ambient temperature	/	4-4-2-4-4	3.6	+	16	a
2020	2733	Pédichiffonnette (environnement volaille)	Boots socks (poultry environment)	S. Enteritidis Ad2970	Boots socks	Seeding 24h at ambient temperature	/	1-2-2-3-3	2.2	+	16	a
2020	2734	Pédichiffonnette (environnement volaille)	Boots socks (poultry environment)	S. Enteritidis Ad2970	Boots socks	Seeding 24h at ambient temperature	/	1-2-2-3-3	2.2	-	16	a
2020	2735	Fécès pork	Pork feces	S. Derby Ad2280	Pork feces	Seeding 24h at ambient temperature	/	4-7-3-4-1	3.8	+	16	a
2020	2737	Fécès porc	Pork feces	S. Derby Ad2280	Pork feces	Seeding 24h at ambient temperature	/	4-7-3-4-1	3.8	+	16	a
2020	3183	Fèces porc	Pork feces	S. Infantis Ad 2278	Pork feces	Seeding 24h at ambient temperature	/	3-5-7-2-3	4.0	+	16	a
2020	3185	Pédichiffonnette volaille	Boots socks (poultry environment)	S. Djugu Ad 2969	Boots socks poultry	Seeding 24h at ambient temperature	/	3-3-4-3-2	3.0	-	16	a
2020	3186	Litière volaille	Poultry litter	S. Djugu Ad 2969	Boots socks poultry	Seeding 24h at ambient temperature	/	3-3-4-3-2	3.0	-	16	a
2020	3187	Fèces volaille	Poultry feces	S. Djugu Ad 2969	Boots socks poultry	Seeding 24h at ambient temperature	/	3-3-4-3-2	3.0	+	16	a
2020	3188	Fèces volaille	Poultry feces	S. Typhimurium Ad1411	Poultry feces	Seeding 24h at ambient temperature	/	4-3-7-4-3	4.2	+	16	a
2020	3308	Fèces de porc	Pork feces	S. Livingstone Ad2279	Pork feces	Seeding 24h at ambient temperature	/	3-3-4-2-1	2.6	+	16	a
2020	3309	Fèces de porc	Pork feces	S. Livingstone Ad2279	Pork feces	Seeding 24h at ambient temperature	/	3-3-4-2-1	2.6	-	16	a
2020	3312	Fèces de volaille	Poultry feces	S. Mbandaka Ad1720	Poultry feces	Seeding 24h at ambient temperature	/	2-6-4-2-1	3.0	+	16	a
2020	3313	Fèces de volaille	Poultry feces	S. Mbandaka Ad1720	Poultry feces	Seeding 24h at ambient temperature	/	2-6-4-2-1	3.0	+	16	a
2020	3314	Pédichiffonnette de volaille	Boots socks (poultry environment)	S. Infantis Ad 1404	Boots socks poultry	Seeding 24h at ambient temperature	/	6-2-2-4-3	3.4	-	16	a
2020	3474	Pédichiffonnette poule	Boots socks (poultry environment)	S. Agona Ad1306	Boots socks poultry	Seeding 24h at ambient temperature	/	3-5-4-2-3	3.4	+	16	a
2020	3476	Fèces volaille	Poultry feces	S. Agona Ad1306	Boots socks poultry	Seeding 24h at ambient temperature	/	3-5-4-2-5	3.4	+	16	a
2020	3478	Pédichiffonnette volaille	Boots socks (poultry environment)	S. Haifa Ad1727	Boots socks poultry	Seeding 24h at ambient temperature	/	4-5-3-3-3	3.4	+	16	a
2020	3480	Fèces volaille	Poultry feces	S. Gallinarium Ad1841	Poultry	Seeding 24h at ambient temperature	/	4-2-1-5-1	2.6	-	16	a
2020	3482	Fèces poule	Poultry feces	S. Gallinarium Ad1841	Poultry	Seeding 24h at ambient temperature	/	4-2-1-5-3	2.6	+	16	a
2020	2736	Poussière (environnement volaille)	Dust (poultry environment)	S. Enteritidis Ad2970	Boots socks	Seeding 24h at ambient temperature	/	1-2-2-3-3	2.2	-	16	b
2020	2738	Litière volaille	Poultry litter	S. Anatum Ad1108	Poultry litter	Seeding 24h at ambient temperature	/	4-1-1-3-0	1.8	-	16	b
2020	2739	Litière volaille	Poultry litter	S. Anatum Ad1108	Poultry litter	Seeding 24h at ambient temperature	/	4-1-1-3-0	1.8	+	16	b
2020	2740	Litière volaille	Poultry litter	S. Anatum Ad1108	Poultry litter	Seeding 24h at ambient temperature	/	4-1-1-3-0	1.8	+	16	b
2020	3184	Litière porc	Pork litter	S. Infantis Ad 2278	Pork feces	Seeding 24h at ambient temperature	/	3-5-7-2-3	4.0	+	16	b
2020	3189	Litière volaille	Poultry litter	S. Typhimurium Ad1411	Poultry feces	Seeding 24h at ambient temperature	/	4-3-7-4-3	4.2	-	16	b
2020	3190	Eponge perchoir volaille	Sponge (poultry environment)	S. Djugu Ad 2969	Boots socks poultry	Seeding 24h at ambient temperature	/	3-3-4-3-2	3.0	+	16	b
2020	3191	Eponge nid volaille	Sponge (poultry environment)	S. Typhimurium Ad1411	Poultry feces	Seeding 24h at ambient temperature	/	4-3-7-4-3	4.2	+	16	b
2020	3192	Ecouvillon perchoir volaille	Swab (poultry environment)	S. Djugu Ad 2969	Boots socks poultry	Seeding 24h at ambient temperature	/	3-3-4-3-2	3.0	+	16	b
2020	3193	Ecouvillon abreuvoir volaille	Swab (poultry environment)	S. Typhimurium Ad1411	Poultry feces	Seeding 24h at ambient temperature	/	4-3-7-4-3	4.2	+	16	b
2020	3310	Litière de porc	Pork litter	S. Livingstone Ad2279	Pork feces	Seeding 24h at ambient temperature	/	3-3-4-2-1	2.6	-	16	b
2020	3311	Litière de porc	Pork litter	S. Livingstone Ad2279	Pork feces	Seeding 24h at ambient temperature	/	3-3-4-2-1	2.6	-	16	b
2020	3315	Litière de volaille	Poultry litter	S. Infantis Ad 1404	Boots socks poultry	Seeding 24h at ambient temperature	/	6-2-2-4-3	3.4	-	16	b
2020	3316	Chiffonnette nid de poule	Wipe (poultry environment)	S. Infantis Ad 1404	Boots socks poultry	Seeding 24h at ambient temperature	/	6-2-2-4-3	3.4	+	16	b
2020	3317	Ecouvillon perchoir volaille	Swab (poultry environment)	S. Infantis Ad 1404	Boots socks poultry	Seeding 24h at ambient temperature	/	6-2-2-4-3	3.4	+	16	b
2020	3318	Eponge volaille abreuvoir	Sponge (poultry environment)	S. Mbandaka Ad1720	Poultry feces	Seeding 24h at ambient temperature	/	2-6-4-2-1	3.0	+	16	b
2020	3475	Eponge volaille perchoir	Sponge (poultry environment)	S. Agona Ad1306	Boots socks poultry	Seeding 24h at ambient temperature	/	3-5-4-2-4	3.4	+	16	b
2020	3477	Eponge volaille abreuvoir	Sponge (poultry environment)	S. Haifa Ad1727	Boots socks poultry	Seeding 24h at ambient temperature	/	4-5-3-3-2	3.4	+	16	b
2020	3479	Litière volaille	Poultry litter	S. Haifa Ad1727	Boots socks poultry	Seeding 24h at ambient temperature	/	4-5-3-3-4	3.4	-	16	b
2020	3481	Litière volaille	Poultry litter	S. Gallinarium Ad1841	Poultry	Seeding 24h at ambient temperature	/	4-2-1-5-2	2.6	-	16	b

Year of analysis	Sample N°	Product (French name)	Product	Artificial contaminations (spiking protocol)			Inoculation level CUF/test portion	Global result	Category	Type
				Strain	Origin	Injury protocol	Mean			
2023	1677	Poudre de lait entier (26% MG)	Whole milk powder (26% fat)	S. Montevideo 604	Dairy product	Seeding lyophilized strain 2 weeks at ambient temperature	0.8	+	17	a
2023	1678	Poudre de lait demi-écrémé (14% MG)	Half-skim milk powder (14% fat)	S. Montevideo 604	Dairy product	Seeding lyophilized strain 2 weeks at ambient temperature	0.8	+	17	a
2023	1679	Poudre de lait écrémé (0.8%)	Skim milk powder (0.8% fat)	S. Norwich Ad1172	Dairy product	Seeding lyophilized strain 2 weeks at ambient temperature	6.4	+	17	a
2023	1682	Poudre de lait infantile bio dès 6 mois (23.7% MG)	Infant formula (23.7% fat)	S. Duisburg Ad1812	Dairy product	Seeding lyophilized strain 2 weeks at ambient temperature	1.4	+	17	a
2023	1683	Poudre de lait infantile 0 à 6 mois (23.5% MG)	Infant formula (23.5% fat)	S. Norwich Ad1172	Dairy product	Seeding lyophilized strain 2 weeks at ambient temperature	6.4	+	17	a
2023	1684	Céréale infantile	Infant cereals	S. Montevideo 604	Dairy product	Seeding lyophilized strain 2 weeks at ambient temperature	0.8	+	17	a
2023	2047	Céréales infantiles dès 12 mois saveur noisette/biscuit	Infant cereals	S. Anatum Ad1166	Milk product	Seeding lyophilized strain 2 weeks at ambient temperature	1	+	17	a
2023	2048	Céréales infantiles dès 8 mois 5 céréales/miel	Infant cereals	S. Anatum Ad1166	Milk product	Seeding lyophilized strain 2 weeks at ambient temperature	1	+	17	a
2023	2049	Poudre de lait infantile de 0 à 6 mois (24.9% MG)	Infant formula with probiotics (24.9% fat)	S. Manhattan 900	Dairy dust	Seeding lyophilized strain 2 weeks at ambient temperature	1.5	+	17	a
2023	2050	Poudre de lait infantile de 6 à 12 mois (22.6 % MG)	Infant formula with probiotics (22.6% fat)	S. Manhattan 900	Dairy dust	Seeding lyophilized strain 2 weeks at ambient temperature	1.5	+	17	a
2023	2051	Poudre de lait infantile dès la naissance (25% MG)	Infant formula with probiotics (25% fat)	S. Manhattan 900	Dairy dust	Seeding lyophilized strain 2 weeks at ambient temperature	1.5	+	17	a
2023	1815	Poudre de lait infantile 6 à 12 mois avec probiotiques (<i>B.lactis</i> : 8.91 x 10 ⁵ UFC/g) (24.5% MG)	Infant formula with probiotics (<i>B.lactis</i> : 8.91 x 10 ⁵ CFU/g) (24.5% fat)	S. Goldcoast Ad3006	Milk powder	Seeding lyophilized strain 2 weeks at ambient temperature	1.2	+	17	b
2023	1816	Poudre de lait infantile SN bio plus 10-36 mois avec probiotiques (<i>B.lactis</i> : 4.09 x 10 ⁵ UFC/g) (25% MG)	Infant formula with probiotics (<i>B.lactis</i> : 4.09 x 10 ⁵ CFU/g) (25% fat)	S. Goldcoast Ad3006	Milk powder	Seeding lyophilized strain 2 weeks at ambient temperature	1.2	+	17	b
2023	1817	Poudre de lait infantile dès 6 mois avec probiotiques (<i>B.lactis</i> : 1.36 x 10 ⁶ UFC/g) (27.6% MG)	Infant formula with probiotics (<i>B.lactis</i> : 1.36 x 10 ⁶ CFU/g) (27.6% fat)	S. Goldcoast Ad3006	Milk powder	Seeding lyophilized strain 2 weeks at ambient temperature	1.2	+	17	b
2023	1818	Poudre de lait infantile de 6 à 12 mois avec probiotiques (<i>B.lactis</i> : 3.36 x 10 ⁴ UFC/g) (26% MG)	Infant formula with probiotics (<i>B.lactis</i> : 3.36 x 10 ⁴ CFU/g) (26% fat)	S. Cerro Ad2707	Milk powder	Seeding lyophilized strain 2 weeks at ambient temperature	1.5	+	17	b
2023	1819	Poudre de lait infantile de 0 à 6 mois avec probiotiques (<i>B.lactis</i> : 2.45 x 10 ³ UFC/g) (28.2% MG)	Infant formula with probiotics (<i>B.lactis</i> : 2.45 x 10 ³ CFU/g) (28.2% fat)	S. Cerro Ad2707	Milk powder	Seeding lyophilized strain 2 weeks at ambient temperature	1.5	+	17	b
2023	2041	Céréales infantiles banane avec probiotiques (<i>B.lactis</i> : 1.09 x 10 ⁶ UFC/g)	Infant cereals with probiotics	S. Virchow Ad1721	Infant cereals	Seeding lyophilized strain 2 weeks at ambient temperature	1.7	+	17	b
2023	2042	Céréales infantiles pomme/pêche avec probiotiques (<i>B.lactis</i> : 1.45 x 10 ⁶ UFC/g)	Infant cereals with probiotics	S. Virchow Ad1721	Infant cereals	Seeding lyophilized strain 2 weeks at ambient temperature	1.7	+	17	b
2023	2043	Céréales infantiles banane/prune/quinoa dès 6 mois avec probiotiques (<i>B.lactis</i> : 1.18 x 10 ³ UFC/g)	Infant cereals with probiotics	S. Virchow Ad1721	Infant cereals	Seeding lyophilized strain 2 weeks at ambient temperature	1.7	+	17	b
2023	2044	Céréale infantiles 2 céréales/quinoa avec probiotique (<i>B.lactis</i> : 4.41 x 10 ⁵ UFC/g)	Infant cereals with probiotics	S. Oranienburg Ad1724	Infant cereals	Seeding lyophilized strain 2 weeks at ambient temperature	1.6	+	17	b

Year of analysis	Sample N°	Product (French name)	Product	Artificial contaminations (spiking protocol)			Inoculation level CUF/test portion	Global result	Category	Type
				Strain	Origin	Injury protocol	Mean			
2023	2045	Poudre de lait infantile 0-6 mois avec probiotiques (B.lactis : 3.09 x 10 ⁶ UFC/g) (27.8% MG)	Infant formula with probiotics (27.8% fat)	S. Infantis A00E057	Dairy dust	Seeding lyophilized strain 2 weeks at ambient temperature	1.1	+	17	b
2023	2046	Poudre de lait infantile système immunitaire dès 1 an avec probiotiques (L.reuteri : 4.73 x 10 ⁵ UFC/g) (23% MG)	Infant formula with probiotics (23% fat)	S. Infantis A00E057	Dairy dust	Seeding lyophilized strain 2 weeks at ambient temperature	1.1	+	17	b
2023	1805	Poudre épaississante de 0 à 3 ans	Thickened powder	S. Ohio Ad2213	Dairy product	Seeding lyophilized strain 2 weeks at ambient temperature	1.9	+	17	c
2023	1806	Poudre infantile protéine de riz avec probiotiques (B. lactis: 2.73 x 10 ² UFC/g) (21.5% MG)	Infant rice protein with probiotics (B. lactis: 2.73 x 10 ² CFU/g) (21.5% fat)	S. Ohio Ad2213	Dairy product	Seeding lyophilized strain 2 weeks at ambient temperature	1.9	+	17	c
2023	1807	Poudre infantile sans lactose dès la naissance avec probiotiques (L. reuteri: 1.0 x 10 ⁶ UFC/g) (25.5% MG)	Infant powder without lactose (L. reuteri: 1.0 x 10 ⁶ CFU/g) (25.5% fat)	S. Ohio Ad2213	Dairy product	Seeding lyophilized strain 2 weeks at ambient temperature	1.9	+	17	c
2023	1810	Poudre infantile de riz AR 0-6 mois (24.9% MG)	Infant rice protein (24.9% fat)	S. Livingstone Ad2150	Lactoserum	Seeding lyophilized strain 2 weeks at ambient temperature	4.7	+	17	c
2023	1811	Poudre infantile de riz AR 6-12 mois (22.8 % MG)	Infant rice protein (22.8 % fat)	S. Livingstone Ad2150	Lactoserum	Seeding lyophilized strain 2 weeks at ambient temperature	4.7	+	17	c
2023	1812	Poudre infantile protéine de riz végétal 12 mois (26% MG)	Infant rice protein (26% fat)	S. Livingstone Ad2150	Lactoserum	Seeding lyophilized strain 2 weeks at ambient temperature	4.7	+	17	c
2023	1813	Poudre infantile de riz 0-36 mois (25% MG)	Infant rice protein (25% fat)	S. Anatum Ad2706	Milk powder	Seeding lyophilized strain 2 weeks at ambient temperature	3	+	17	c
2023	1814	Poudre infantile de riz, préparation de suite dès 6 mois (23.5% MG)	Infant rice protein (23.5% fat)	S. Anatum Ad2706	Milk powder	Seeding lyophilized strain 2 weeks at ambient temperature	3	+	17	c
2023	2052	Poudre de riz 0-36 mois (25% MG)	Infant rice powder (25% fat)	S. Kasenyi Ad2921	Plants	Seeding lyophilized strain 2 weeks at ambient temperature	2	+	17	c
2023	2053	Poudre épaississante dès la naissance	Thickened powder	S. Kasenyi Ad2921	Plants	Seeding lyophilized strain 2 weeks at ambient temperature	2	+	17	c
2023	2513	Poudre de cacao	Cocoa powder	S. Anatum Ad298	Milk powder	Seeding lyophilized strain 2 weeks at ambient temperature	0.5	-	18	a
2023	2514	Poudre de cacao	Cocoa powder	S. Livingstone Ad2150	Whey	Seeding lyophilized strain 2 weeks at ambient temperature	1.9	+	18	a
2023	2515	Liqueur de cacao	Cocoa liquor	S. Infantis A00E057	Dairy dust	Seeding lyophilized strain 2 weeks at ambient temperature	3.6	+	18	a
2023	2516	Masse de cacao	Cocoa mass	S. Manhattan 900	Dairy dust	Seeding lyophilized strain 2 weeks at ambient temperature	1.4	+	18	a
2023	2801	Masse de cacao	Cocoa mass	S. Typhimurium Ad2034	Cocoa beans	Seeding lyophilized strain 2 weeks at ambient temperature	0.6	+	18	a
2023	2802	Beurre de cacao non désodorisé	Cocoa butter (non-deodorised)	S. Bareilly Ad1687	Chocolate environment	Seeding lyophilized strain 2 weeks at ambient temperature	1.7	+	18	a
2023	2803	Poudre de cacao 100% cacao	Cocoa powder (100%)	S. Typhimurium Ad2034	Cocoa beans	Seeding lyophilized strain 2 weeks at ambient temperature	0.6	+	18	a
2023	2804	Poudre de cacao alcalisé	Alkalized cocoa powder	S. Bareilly Ad1687	Chocolate environment	Seeding lyophilized strain 2 weeks at ambient temperature	1.7	+	18	a
2023	2805	Liqueur de cacao	Cocoa liquor	S. Stanley Ad1688	Chocolate environment	Seeding lyophilized strain 2 weeks at ambient temperature	0.8	-	18	a
2023	2806	Masse de cacao	Cocoa mass	S. Stanley Ad1688	Chocolate environment	Seeding lyophilized strain 2 weeks at ambient temperature	0.8	+	18	a
2023	2807	Beurre de cacao non désodorisé	Cocoa butter (non-deodorised)	S. Bareilly Ad1687	Chocolate environment	Seeding lyophilized strain 2 weeks at ambient temperature	1.7	+	18	a
2023	3079	Pellet chocolat noir	Chocolate (pellets)	S. Stanley Ad1688	Chocolate environment	Seeding lyophilized strain 2 weeks at ambient temperature	3	+	18	a

Year of analysis	Sample N°	Product (French name)	Product	Artificial contaminations (spiking protocol)			Inoculation level CUF/test portion	Global result	Category	Type
				Strain	Origin	Injury protocol	Mean			
2023	3082	Liqueur de cacao	Cocoa liquor	S. Branderburg Ad2815	Dairy environment	Seeding lyophilized strain 2 weeks at ambient temperature	2.6	+	18	a
2023	3083	Poudre de cacao	Cocoa powder	S. Stanley Ad1688	Chocolate environment	Seeding lyophilized strain 2 weeks at ambient temperature	3	+	18	a
2023	2507	Lactoserum	Whey	S. Livingstone Ad2150	Whey	Seeding lyophilized strain 2 weeks at ambient temperature	1.9	+	18	b
2023	2508	Lactoserum	Whey	S. Anatum Ad298	Milk powder	Seeding lyophilized strain 2 weeks at ambient temperature	0.5	-	18	b
2023	2509	Protéine de lactoserum	Whey protein concentrate	S. Infantis A00E057	Dairy dust	Seeding lyophilized strain 2 weeks at ambient temperature	3.6	+	18	b
2023	2510	Lactose	Lactose	S. Livingstone Ad2150	Whey	Seeding lyophilized strain 2 weeks at ambient temperature	1.9	+	18	b
2023	2740	Poudre de crème	Cream powder	S. Schwarzengrund Ad2333	Egg product environment	Seeding lyophilized strain 2 weeks at ambient temperature	0.8	+	18	b
2023	2809	Poudre de crème	Cream powder	S. Anatum Ad2754	Dairy environment	Seeding lyophilized strain 2 weeks at ambient temperature	3	+	18	b
2023	2811	Poudre de babeurre	Buttermilk powder	S. Anatum Ad2754	Dairy environment	Seeding lyophilized strain 2 weeks at ambient temperature	3	+	18	b
2023	2812	Poudre de yaourt	Yogurt powder	S. Anatum Ad2754	Dairy environment	Seeding lyophilized strain 2 weeks at ambient temperature	3	+	18	b
2023	3084	Poudre de lait entier (26% MG)	Milk powder	S. Branderburg Ad2815	Dairy environment	Seeding lyophilized strain 2 weeks at ambient temperature	2.6	+	18	b
2023	3088	Poudre de crème	Cream powder	S. Livingstone Ad2150	Whey	Seeding lyophilized strain 2 weeks at ambient temperature	4	+	18	b
2023	3089	Poudre de yaourt	Yogurt powder	S. Livingstone Ad2150	Whey	Seeding lyophilized strain 2 weeks at ambient temperature	4	+	18	b
2023	2511	Amidon de maïs	Corn starch	S. Infantis A00E057	Dairy dust	Seeding lyophilized strain 2 weeks at ambient temperature	3.6	-	18	c
2023	2512	Amidon de riz	Rice starch	S. Manhattan 900	Dairy dust	Seeding lyophilized strain 2 weeks at ambient temperature	1.4	+	18	c
2023	2733	Beurre de cacahuètes	Peanut butter	S. Schwarzengrund Ad2333	Egg product environment	Seeding lyophilized strain 2 weeks at ambient temperature	0.8	+	18	c
2023	2734	Tapioca	Tapioca	S. Brandenburg Ad2749	Dairy environment	Seeding lyophilized strain 2 weeks at ambient temperature	0.2	-	18	c
2023	2735	Lécithine de soja	Soy lecithin	S. Infantis Ad2753	Dairy environment	Seeding lyophilized strain 2 weeks at ambient temperature	4.5	-	18	c
2023	2736	Pâte d'amendes	Marzipan	S. Havana Ad2728	Sunflower	Seeding lyophilized strain 2 weeks at ambient temperature	1.8	+	18	c
2023	2737	Dextrose en poudre	Dextrose	S. Brandenburg Ad2749	Dairy environment	Seeding lyophilized strain 2 weeks at ambient temperature	0.2	-	18	c
2023	2738	Praliné amande/noisette (30% MG)	Almond/hazelnut praline (30% fat)	S. Havana Ad2728	Sunflower	Seeding lyophilized strain 2 weeks at ambient temperature	1.8	+	18	c
2023	2739	Glucose déshydraté	Glucose (powder)	S. Infantis Ad2753	Dairy environment	Seeding lyophilized strain 2 weeks at ambient temperature	4.5	+	18	c
2023	3080	Beurre de cacahuètes	Peanut butter	S. Branderburg Ad2815	Dairy environment	Seeding lyophilized strain 2 weeks at ambient temperature	2.6	+	18	c
2023	3081	Tapioca fin	Tapioca	S. Branderburg Ad2819	Dairy environment	Seeding lyophilized strain 2 weeks at ambient temperature	2	+	18	c
2023	3085	Amidon de riz	Rice starch	S. Branderburg Ad2819	Dairy environment	Seeding lyophilized strain 2 weeks at ambient temperature	2	+	18	c
2023	3086	Dextrose en poudre	Dextrose	S. Branderburg Ad2815	Dairy environment	Seeding lyophilized strain 2 weeks at ambient temperature	2.6	+	18	c
2023	3087	Lécithine de soja	Soy lecithin	S. Branderburg Ad2819	Dairy environment	Seeding lyophilized strain 2 weeks at ambient temperature	2	+	18	c

Year of analysis	Sample N°	Product (French name)	Product	Artificial contaminations (spiking protocol)						Reference enrichment broth	Global result		Category	Type
				Strain	Origin	Injury protocol	Injury measurement	Inoculation level CFU/test portion			10 h	22 h		
								Enumeration	Mean					
2025	117635	Muffin fourré à la pâte à tartiner noisette et cacao	Muffin filled with hazelnut and cocoa spread	S. Infantis Ad1684	Chocolate mousse	Seeding 2 weeks at -20°C	/	4-2-2-2-1	2.2	BPW	+	+	18	d
2025	117730	Pâte à tartiner noisettes et cacao (30,90% MG)	Hazelnut and cocoa spread (30.90% fat)	S. Bovismorbificans 9	Dairy industry dust	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	3	BPW + Tween 80	+	+	18	d
2025	117731	Tablette chocolat blanc (29% MG)	White chocolate bar (29% fat)	S. Bovismorbificans 9	Dairy industry dust	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	3	BPW + Tween 80	-	-	18	d
2025	117732	Barre chocolatée, chocolat au lait (35% MG)	Milk chocolate bar with fondant milk heart (35% fat)	S. Enteritidis ATCCBAA1045	Almond	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1.5	BPW + Tween 80	+	+	18	d
2025	117733	Gâteau cacao coconut fourré au lait et noix de coco (22,60% MG)	Coconut cake filled with milk and coconut (22.60% fat)	S. Infantis Ad1684	Chocolate mousse	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1.8	BPW + Tween 80	+	+	18	d
2025	117734	Bouchées chocolat au lait noisettes et gaufrette (42.7% MG)	Milk chocolate bites with hazelnuts and wafer (42.7% fat)	S. Bovismorbificans 9	Dairy industry dust	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	3	BPW + Tween 80	+	+	18	d
2025	117735	Billes de chocolat cacahuète (65% cacao)	Cocoa chocolate balls (65% cocoa)	S. Montevideo Ad1686	Gelatin	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1.3	Milk	+	+	18	d
2025	117736	Barre au chocolat avec gaufrette (26%MG) (68,20% cacao)	Chocolate bar with wafer(26% fat) (68, 20% cocoa)	S. Montevideo Ad1686	Gelatin	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1.3	Milk + Tween 80	+	+	18	d
2025	117737	Tablette chocolat au riz soufflé (25,90% MG) (29% cacao)	Chocolate bar with puffed rice (25,90% fat) (29% cocoa)	S. Enteritidis ATCCBAA1045	Almond	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1.5	Milk + Tween 80	+	+	18	d
2025	117738	Tablette chocolat avec noisettes (40% MG) (>20% cacao)	Chocolate bar with hazelnuts (40% fat) (>20% cocoa)	S. Infantis Ad1684	Chocolate mousse	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1.8	Milk + Tween 80	+	+	18	d
2025	117739	Tablette chocolat noir 70% (46%MG) (70% cacao)	Dark chocolate bar 70% (46% fat) (70% cocoa)	S. Montevideo Ad1686	Gelatin	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1.3	Milk + Tween 80	-	-	18	d
2025	117740	Tablette chocolat noir 90% (21% MG) (90% cacao)	Dark chocolate bar 90% (21% fat) (90% cocoa)	S. Enteritidis ATCCBAA1045	Almond	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1.5	Milk + Tween 80	+	+	18	d
2025	117741	Tablette chocolat framboise (31% MG) (>20% cacao)	Raspberry chocolate bar (31% fat) (>20% cocoa)	S. Enteritidis ATCCBAA1045	Almond	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1.5	Milk + Tween 80	-	-	18	d
2025	117742	Tablette chocolat au lait (42%MG) (>20% cacao)	Milk chocolate bar (42% fat) (>20% cocoa)	S. Infantis Ad1684	Chocolate mousse	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1.8	Milk + Tween 80	-	-	18	d

Year of analysis	Sample N°	Product (French name)	Product	Artificial contaminations						Global result	Category	Type
				Strain	Origin	Injury protocol	Injury measurement	Inoculation level CFU / test portion				
2023	3686	Poudre de cacao alcalisée	Alkalized cocoa powder	S. Bareilly Ad1687	Chocolate environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1	+	19	a
2023	3687	Poudre de cacao alcalisée	Fat reduced alkalized cocoa powder	S. Anatum Ad2754	Environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	2	+	19	a
2023	3688	Masse de cacao	Chocolate mass	S. Bareilly Ad1687	Chocolate environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1	+	19	a
2023	3689	Beurre de cacao (non désodorisé)	Cocoa butter (non-deodorized)	S. Brandenburg Ad2819	Environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0.7	+	19	a
2023	3690	Fève de cacao	Cocoa beans	S. Stanley Ad1688	Chocolate environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1	-	19	a
2023	3883	Beurre de cacao	Cocoa butter	S. Mbandaka Ad2808	Dairy environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1.3	-	19	a
2023	3884	Masse de cacao	Cocoa mass	S. Infantis Ad2753	Dairy environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0.4	+	19	a
2023	3885	Liqueur de cacao	Cocoa liquor	S. Mbandaka Ad2808	Dairy environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1.3	+	19	a
2023	4192	Fèves de cacao	Cocoa beans	S. Cerro Ad2152	Dairy product	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1	-	19	a
2023	4193	Liqueur de cacao	Cocoa liquor	S. Cerro Ad2152	Dairy product	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1	+	19	a
2023	4292	Masse de cacao	Cocoa mass	S. Brandenburg Ad2819	Dairy environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1.6	+	19	a
2023	4293	Beurre de cacao	Cocoa butter	S. Brandenburg Ad2819	Dairy environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1.6	+	19	a
2023	4294	Poudre de cacao	Cocoa powder	S. Derby Ad3381	Milk	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0.3	-	19	a
2023	4943	Fève de cacao	Cocoa beans	S. Bareilly Ad1687	Chocolate environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	2.1	-	19	a
2023	4944	Liqueur de cacao	Cocoa liquor	S. Schwarzengrund Ad2333	Egg product environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	2.5	+	19	a
2023	3691	Chocolat blanc	White chocolate	S. Bareilly Ad1687	Chocolate environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1	+	19	b
2023	3692	Chocolat noir	Dark chocolate	S. Stanley Ad1688	Chocolate environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1	+	19	b
2023	3693	Chocolat au lait	Milk chocolate	S. Stanley Ad1688	Chocolate environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1	+	19	b
2023	3920	Chocolat noir force noir (50% cacao)	Dark chocolate (50% cocoa)	S. Brandenburg Ad2749	Dairy environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	2	+	19	b
2023	3921	Pépites de chocolat noir (48% cacao)	Dark chocolate (48% cocoa)	S. Mbandaka Ad2808	Dairy environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1.3	-	19	b
2023	3922	Pépites de chocolat noir (48% cacao)	Dark chocolate (48% cocoa)	S. Brandenburg Ad2815	Dairy environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	4	+	19	b
2023	3923	Chocolat de couverture au lait (41% cacao)	Milk chocolate (41% cocoa)	S. Infantis A00E057	Dairy environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	2	-	19	b
2023	3924	Pépites de chocolat au lait (30% cacao)	Milk chocolate (30% cocoa)	S. Brandenburg Ad2815	Dairy environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	4	+	19	b
2023	3925	Pépites de chocolat au lait (30% cacao)	Milk chocolate (30% cocoa)	S. Havana Ad2728	Sunflowers	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1.6	-	19	b
2023	3926	Chocolat blanc (34% cacao)	White chocolate (34% cocoa)	S. Havana Ad2728	Sunflowers	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1.6	+	19	b

Year of analysis	Sample N°	Product (French name)	Product	Artificial contaminations						Global result	Category	Type
				Strain	Origin	Injury protocol	Injury measurement	Inoculation level CFU / test portion				
2023	4295	Pépites de chocolat noir 45% cacao	Dark chocolate (45% cocoa)	S. Derby Ad3381	Milk	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0.3	-	19	b
2023	4296	Chocolat noir 65% (31% MG)	Dark chocolate (65% cocoa)	S. Brandenburg Ad2819	Dairy environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1.6	+	19	b
2023	4297	Chocolat au lait 30% cacao	Milk chocolate (30% cocoa)	S. Derby Ad3381	Milk	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0.3	-	19	b
2023	4298	Chocolat au lait 34.1% cacao	Milk chocolate (34.1% cocoa)	S. Livingstone E1	White egg powder	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0.5	+	19	b
2023	4945	Chocolat noir (65% cacao)	Black chocolate (65% cocoa)	S. Schwarzengrund Ad2333	Egg product environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	2.5	+	19	b
2023	4946	Chocolat au lait (41% cacao)	Milk chocolate (41% cocoa)	S. Bareilly Ad1687	Chocolate environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	2.1	+	19	b
2023	3927	M&M's cacahuète	M&M's peanuts	S. Brandenburg Ad2749	Dairy environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	2	-	19	c
2023	3928	Barre chocolatée au caramel et nougat	Chocolate bar with caramel and nougat	S. Brandenburg Ad2815	Dairy environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	4	+	19	c
2023	3929	Barre chocolatée avec caramel et biscuit croustillant (35% MG)	Chocolate bar with caramel and crispy biscuit (35% fat)	S. Mbandaka Ad2808	Dairy environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1.3	-	19	c
2023	3930	Boules croustillantes enrobées de chocolat au lait	Milk chocolate-coated crispy balls	S. Infantis A00E057	Dairy environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	2	+	19	c
2023	4194	Barre chocolatée avec gaufrette, caramel et céréales	Chocolate bar with wafer, caramel, and cereal	S. Livingstone E1	Egg white powder	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1.3	+	19	c
2023	4195	En-cas au lait et chocolat avec gaufrette croustillante	Milk and chocolate snack with a crispy wafer	S. Livingstone E1	Egg white powder	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1.3	+	19	c
2023	4196	Petits bonbons croquants enrobés de chocolat	Small crunchy candies coated with chocolate	S. Derby Ad1683	Pie	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1.3	+	19	c
2023	4197	Confiserie au caramel dur enrobée de chocolat	Hard caramel candy covered with chocolate	S. Derby Ad1683	Pie	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1.3	-	19	c
2023	4198	Gaufrette enrobée de chocolat au lait	Wafer covered in milk chocolate	S. Derby Ad3381	Milk	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0.6	-	19	c
2023	4199	Coupes de beurre de cacahuète enrobées de chocolat	Chocolate-coated peanut butter cups	S. Derby Ad3381	Milk	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0.6	+	19	c
2023	4299	Dragées enrobées de chocolat avec cacahuètes (26% MG)	Chocolate-coated candy with peanuts (26%fat)	S. Infantis Ad1685	Gelatin	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0.6	+	19	c
2023	4300	Barre chocolatée avec caramel et biscuit croustillant (35% MG)	Chocolate bar with caramel and crispy biscuit (35% fat)	S. Infantis Ad1685	Gelatin	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0.6	+	19	c
2023	4301	Barre chocolatée fourrée à la noix de coco (26% MG)	Chocolate bar filled with coconut (26% MG)	S. Livingstone E1	White egg powder	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0.5	-	19	c
2023	4457	Confiserie au caramel dur enrobée de chocolat	Hard caramel candy covered with chocolate	S. Derby Ad1683	Pasty	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	2.5	+	19	c
2023	4458	Gaufrette enrobée de chocolat au lait	Wafer covered in milk chocolate	S. Derby Ad3381	Ewe milk	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1.3	+	19	c
2023	3694	Poudre de blanc d'œuf	Egg white powder	S. Schwarzengrund Ad2333	Egg product environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	4	+	20	a
2023	3695	Poudre de blanc d'œuf	Egg white powder	S. Anatum Ad2754	Environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	2	+	20	a
2023	3696	Poudre de jaune d'œuf	Egg yolk powder	S. Schwarzengrund Ad2333	Egg product environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	4	+	20	a
2023	3697	Poudre d'œuf entier	Egg powder	S. Schwarzengrund Ad2333	Egg product environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	4	+	20	a

Year of analysis	Sample N°	Product (French name)	Product	Artificial contaminations						Global result	Category	Type
				Strain	Origin	Injury protocol	Injury measurement	Inoculation level CFU / test portion				
2023	3698	Poudre d'œuf entier	Egg powder	S. Brandenburg Ad2819	Environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0.7	+	20	a
2023	4200	Albumine d'œuf	Egg albumin	S. Livingstone E1	Egg white powder	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1.3	+	20	a
2023	4302	Poudre de jaune d'œuf	Egg yolk powder	S. Livingstone E1	White egg powder	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0.5	-	20	a
2023	4835	Coule de jaune d'œuf pasteurisé	Pasteurized egg yolk	S. Typhimurium 776	Liquid egg	Spiking, heat treatment 10 min 56°C	0.7	5-5-4-4-2	4	+	20	a
2023	4836	Coule de jaune d'œuf pasteurisé	Pasteurized egg yolk	S. Infantis 14	Liquid egg	Spiking, heat treatment 10 min 56°C	1.2	8-2-4-2-3	3.8	+	20	a
2023	4837	Coule d'œuf entier pasteurisé	Pasteurized liquid whole egg	S. Typhimurium 776	Liquid egg	Spiking, heat treatment 10 min 56°C	0.7	5-5-4-4-2	4	+	20	a
2023	4838	Coule d'œuf entier pasteurisé	Pasteurized liquid whole egg	S. Infantis 14	Liquid egg	Spiking, heat treatment 10 min 56°C	1.2	8-2-4-2-3	3.8	+	20	a
2023	3699	Maltodextrine	Maltodextrin	S. Anatum Ad2754	Environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	2	+	20	b
2023	3700	Lactose	Lactose	S. Brandenburg Ad2819	Environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0.7	-	20	b
2023	3877	Poudre de babeurre	Buttermilk powder	S. Brandenburg Ad2749	Dairy environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0.6	+	20	b
2023	3878	Lactose	Lactose	S. Brandenburg Ad2749	Dairy environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0.6	+	20	b
2023	3879	Poudre de lait entier	Whole milk powder	S. Mbandaka Ad2808	Dairy environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1.3	+	20	b
2023	3880	Caséinates de calcium	Calcium caseinate	S. Infantis Ad2753	Dairy environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0.4	+	20	b
2023	3881	Concentré de protéine de lactosérum	Whey protein concentrate	S. Mbandaka Ad2808	Dairy environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1.3	-	20	b
2023	3882	Poudre de yaourt écrémé	Skimmed yoghurt powder	S. Infantis Ad2753	Dairy environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0.4	+	20	b
2023	4201	Poudre de yaourt	Yoghurt powder	S. Cerro Ad2152	Dairy product	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1	+	20	b
2023	4202	Poudre de lait (26% MG)	Milk powder (26% fat)	S. Derby Ad3381	Milk	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0.6	-	20	b
2023	4312	Lactose	Lactose	S. Cerro Ad2153	Whey	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	2	+	20	b
2023	4313	Protéine de lactoserum	Whey protein	S. Cerro Ad2153	Whey	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	2	+	20	b
2023	4314	Maltodextrine	Maltodextrin	S. Cerro Ad2153	Whey	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	2	+	20	b
2023	4459	Poudre de crème	Cream powder	S. Derby Ad3381	Ewe milk	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1.3	+	20	b
2023	3871	Tapioca	Tapioca	S. Brandenburg Ad2749	Dairy environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0.6	-	20	c
2023	3872	Beurre de cacahuète	Peanut butter	S. Infantis Ad2753	Dairy environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0.4	+	20	c
2023	3873	Amidon de maïs	Corn starch	S. Brandenburg Ad2749	Dairy environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0.6	-	20	c
2023	3874	Amidon de riz	Rice starch	S. Brandenburg Ad2819	Dairy environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0.6	-	20	c
2023	3875	Lécithine de soja	Soy lecithin	S. Brandenburg Ad2819	Dairy environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0.6	+	20	c

Year of analysis	Sample N°	Product (French name)	Product	Artificial contaminations						Global result	Category	Type
				Strain	Origin	Injury protocol	Injury measurement	Inoculation level CFU / test portion				
2023	3876	Pâte d'amande	Marzipan	S. Brandenburg Ad2819	Dairy environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0.6	-	20	c
2023	4203	Lécithine de tournesol	Sunflower lecithin	S. Derby Ad3381	Milk	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0.6	-	20	c
2023	4204	Dextrose	Dextrose	S. Derby Ad1683	Pie	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1.3	-	20	c
2023	4205	Glucose déshydraté	Glucose	S. Derby Ad1683	Pie	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1.3	-	20	c
2023	4206	Praliné amandes/noisettes	Almond and hazelnut praline	S. Cerro Ad2152	Dairy product	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1	+	20	c
2023	4307	Tapioca fin	Tapioca	S. Mbandaka Ad2808	Vacuum dusts (dairy industry)	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0.3	-	20	c
2023	4308	Amidon de maïs	Corn starch	S. Cerro Ad2153	Whey	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	2	+	20	c
2023	4309	Amidon de riz	Rice starch	S. Brandenburg Ad2749	Vacuum dusts (dairy industry)	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1	+	20	c
2023	4310	Pâte d'amande	Marzipan	S. Brandenburg Ad2749	Vacuum dusts (dairy industry)	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1	-	20	c
2023	4311	Lécithine de soja	Soy lecithin	S. Mbandaka Ad2808	Vacuum dusts (dairy industry)	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0.3	+	20	c
2023	4460	Lécithine de soja	Soya lecithin	S. Derby Ad1683	Pasty	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	2.5	-	20	c
2023	4461	Dextrose	Dextrose	S. Derby Ad1683	Pasty	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	2.5	-	20	c
2023	4462	Glucose	Glucose	S. Derby Ad3381	Ewe milk	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1.3	-	20	c
2023	4947	Pâte d'amande	Marzipan	S. Havana Ad2728	Sunflower	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0.7	-	20	c
2023	4948	Lécithine de tournesol	Sunflower lecithin	S. Havana Ad2728	Sunflower	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0.7	+	20	c
2023	4954	Dextrose	Dextrose	S. Havana Ad2728	Sunflower	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0.7	+	20	c
2023	4955	Glucose	Glucose	S. Bareilly Ad1687	Chocolate environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	2.1	+	20	c
2023	4956	Tapioca	Tapioca	S. Schwarzengrund Ad2333	Egg product environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	2.5	+	20	c
2023	4957	Amidon de maïs	Corn starch	S. Bareilly Ad1687	Chocolate environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	2.1	+	20	c

Year of analysis	Sample N°	Product (French name)	Product	Artificial contaminations						Global result	Category	Type
				Strain	Origin	Injury protocol	Injury measurement	Inoculation level CFU / test portion				
								Enumeration	Mean			
2023	5632	Matière première, protéines texturées de pois	Raw material, peas proteins	S. Poona Ad2330	Compound poultry feed	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0.4	-	21	a
2023	5633	Matière première - farine	Raw material, flour	S. Poona Ad2330	Compound poultry feed	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0.4	-	21	a
2023	5634	Matière première - protéine texturée féverole	Raw material (textured peas proteins)	S. kedougou Ad1502	Animal feed	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	2	+	21	a
2023	5635	Matière première - tourteaux de soja	Raw material (soya cake)	S. kedougou Ad1502	Animal feed	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	2	+	21	a
2023	5636	Matière première - tourteaux de soja	Raw material (soya cake)	S. Altona Ad2703	Animal feed environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0.8	-	21	a
2023	5637	Matière première - tourteaux de colza	Raw material (soya cake)	S. Altona Ad2703	Animal feed environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0.8	-	21	a
2023	5638	Matière première alimentation animale	Raw material (pet food)	S. Tennessee Ad2720	Animal feed environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	2.5	+	21	a
2023	5639	Matière première alimentation animale	Raw material (pet food)	S. Tennessee Ad2720	Animal feed environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	2.5	-	21	a
2023	5640	Matière première - mélange de céréales grain	Raw material (grain cereals mix))	S. Tennessee Ad2720	Animal feed environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	2.5	-	21	a
2023	5641	Matière première - soja	Raw material (soya)	S. kedougou Ad1502	Animal feed	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0.8	-	21	a
2023	5642	Matière première - protéine texturée de pois	Raw material, peas proteins	S. Altona Ad2703	Animal feed environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	2	-	21	a
2023	5643	Matière première - protéine animale	Raw material (animal proteins)	S. Poona Ad2330	Compound poultry feed	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0.2	+	21	a
2023	5934	Matière première colza	Raw material (rapeseed)	S. Poona Ad2330	Compound poultry feed	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0.5	-	21	a
2023	5935	Matière première - amidon de pois bio	Raw material (peas starch)	S. Poona Ad2330	Compound poultry feed	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0.5	-	21	a
2023	5936	Matière première - protéine texturé de pois	Raw material (peas proteins)	S. Tennessee Ad2720	Animal food environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	4	-	21	a
2023	5937	Matière première - farine animale	Raw material (animal flour)	S. Tennessee Ad2720	Animal food environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	4	+	21	a
2023	5938	Matière première - farine animale	Raw material (animal flour)	S. Tennessee Ad2720	Animal food environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	4	+	21	a
2023	5939	Matière première - sous-produit de biscuit	Raw material	S. Idikan Ad2648	Soy meal	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1.6	+	21	a
2023	6006	Matière première - amidon de pois bio	Raw material (peas starch)	S. Worthington F283	Animal food environment	Spiking, heat treatment 10 min 56°C	0.5	0-4-4-4-0	2.4	+	21	a
2023	6007	Matière première - pellet de colza	Raw material (rapeseed)	S. Mbandaka Ad2808	Animal feed	Spiking, heat treatment 10 min 56°C	0.6	0-1-0-4-2	1.4	+	21	a
2023	6008	Matière première - sous-produit de biscuit	Raw material	S. Worthington F283	Animal food environment	Spiking, heat treatment 10 min 56°C	0.5	0-4-4-4-0	2.4	-	21	a
2023	5371	Nourriture pour chat au poulet	Feed for cat with chicken	S. Infantis Ad2709	Animal food environment	Spiking, heat treatment 10 min 56°C	0.7	4-6-1-5-3	3.8	+	21	b
2023	5372	Saucisse pour chat poulet et bœuf	Sausage for cat with chicken and beef	S. Infantis Ad2709	Animal food environment	Spiking, heat treatment 10 min 56°C	0.7	4-6-1-5-3	3.8	+	21	b
2023	5373	Saucisse pour chat dindon et poulet	Sausage for cat with turkey and chicken	S. Derby Ad2713	Animal food environment	Spiking, heat treatment 10 min 56°C	0.9	1-0-2-1-2	1.2	+	21	b
2023	5374	Mini filet en sauce au poisson pour chat	Mini fillet in fish sauce for cats	S. Derby Ad2713	Animal food environment	Spiking, heat treatment 10 min 56°C	0.9	1-0-2-1-2	1.2	+	21	b
2023	5375	Mini filet en sauce bœuf pour chat	Mini fillet in beef sauce for cats	S. Putten Ad2331	Animal food environment	Spiking, heat treatment 10 min 56°C	1.5	0-0-0-1-1	0.4	-	21	b
2023	5376	Nourriture pour chien au poulet sans céréales	Feed for dogs with chicken without cereals	S. Infantis Ad2709	Animal food environment	Spiking, heat treatment 10 min 56°C	0.7	4-6-1-5-3	3.8	+	21	b
2023	5377	Nourriture pour chien au poulet	Feed for dogs with chicken	S. Derby Ad2713	Animal food environment	Spiking, heat treatment 10 min 56°C	0.9	1-0-2-1-2	1.2	+	21	b

Year of analysis	Sample N°	Product (French name)	Product	Artificial contaminations						Global result	Category	Type
				Strain	Origin	Injury protocol	Injury measurement	Inoculation level CFU / test portion				
								Enumeration	Mean			
2023	5378	Saucisse pour petit chien poulet et dinde	Sausage for small dog with chicken and turkey	S. Infantis Ad2709	Animal food environment	Spiking, heat treatment 10 min 56°C	0.7	4-6-1-5-3	3.8	+	21	b
2023	5379	Saucisse pour chien poulet tendre	Sausage for dog with chicken	S. Putten Ad2331	Animal food environment	Spiking, heat treatment 10 min 56°C	1.5	0-0-0-1-1	0.4	+	21	b
2023	5380	Viande crue pour animaux sans os	Raw meat for pet	S. Putten Ad2331	Animal food environment	Spiking, heat treatment 10 min 56°C	1.5	0-0-0-1-1	0.4	+	21	b
2023	5733	Nourriture pour chat tender chicken	Feed for cat with chicken	S. Derby Ad2713	Animal food environment	Spiking, heat treatment 10 min 56°C	0.5	1-0-0-0-0	0.2	+	21	b
2023	5734	Saucisson pour chat poulet/bœuf	Sausage for cat (beef, chicken)	S. Derby Ad2713	Animal food environment	Spiking, heat treatment 10 min 56°C	0.5	1-0-0-0-0	0.2	-	21	b
2023	5361	Croquettes pour chien petit junior	Dry kibbles for young dogs	S. Senftenberg Ad2983	Raw material	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1.8	+	21	c
2023	5362	Croquettes pour chien croq mix	Dry kibbles for dogs	S. Mbandaka Ad2041	Animal flour	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	2.3	-	21	c
2023	5363	Croquettes pour chat	Dry kibbles for cat	S. Idikan Ad2648	Soy meal	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	4	-	21	c
2023	5364	Croquettes pour chat stérilisé	Dry kibbles for cat	S. Senftenberg Ad2983	Raw material	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1.8	-	21	c
2023	5369	Friandise pour chien	Sweets for dog	S. Idikan Ad2648	Soy meal	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	4	-	21	c
2023	5370	Friandise pour chat	Sweets for cat	S. Mbandaka Ad2041	Animal flour	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	2.3	-	21	c
2023	5624	Croquettes pour chien au poulet	Dry kibbles for dog with chicken	S. Mbandaka Ad2041	Animal flour	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1.9	+	21	c
2023	5625	Croquettes pour chat au saumon	Dry kibbles for cat with salmon	S. Senftenberg Ad2983	Raw material	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	4.8	+	21	c
2023	5626	Croquettes pour chat au bœuf, poulet et foie	Dry kibbles for cat with beef, chicken and liver	S. Mbandaka Ad2041	Animal flour	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1.9	-	21	c
2023	5630	Friandises pour chat au saumon	Salmon cat treats	S. Senftenberg Ad2983	Raw material	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	4.8	+	21	c
2023	5631	Friandises pour chien au bœuf	Beef dog treats	S. Mbandaka Ad2041	Animal flour	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1.9	-	21	c
2023	5928	Croquettes pour chien	Pellets for dog	S. Senftenberg Ad2983	Raw material	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0.5	+	21	c
2023	5929	Croquettes pour chat	Pellets for cats	S. Mbandaka Ad2041	Animal flour	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	5	+	21	c
2023	5933	Friandise pour chien	Treats for dog	S. Idikan Ad2648	Soy meal	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1.6	+	21	c
2024	53	Croquettes pour chien stérilisé	Pellets for dog	S. kedougou Ad1502	Animal food	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0.6	+	21	c
2024	54	Croquettes pour chien light	Pellets for dog	S. Altona Ad2703	Animal food environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1.5	+	21	c
2024	55	Croquettes pour chiot au poulet	Pellets for puppy	S. Tennessee Ad2720	Animal food environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0.2	-	21	c
2024	56	Croquettes pour chatons sans céréales	Pellets for kitten	S. kedougou Ad1502	Animal food	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0.6	+	21	c
2024	57	Croquettes pour chat stérilisé	Pellets for cats	S. Altona Ad2703	Animal food environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1.5	+	21	c
2024	58	Croquettes pour chat au bœuf, volaille et poisson	Pellets for cats	S. Tennessee Ad2720	Animal food environment	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0.2	+	21	c

Appendix 4 – Sensitivity study: raw data

Category 1: READY-TO-EAT AND READY-TO-REHEAT – Standard protocol – Extension No 2	144
Category 2: MEAT PRODUCTS– Standard protocol – Extension No 2	147
Category 3: DAIRY PRODUCTS – Standard protocol – Extension No 2	151
Category 4: VEGETABLES (except sprouts), FRUITS, SEAFOOD – Standard protocol – Extension No 2	154
Category 5: INGREDIENTS AND SPECIFIC PRODUCTS – Standard protocol – Extension No 2	157
Category 5: INGREDIENTS AND SPECIFIC PRODUCTS – ISO protocol – Extension No 2	161
Category 6: PET FOOD (25 g test portion) – Standard protocol – Extension No 4	165
Category 7: PRODUCTION ENVIRONMENTAL SAMPLES (25 g or sampling device) – Standard protocol – Extension No 2	168
Category 10: COCOA AND CHOCOLATES (375 g test portion) – Specific protocol ④ – Extension No 3	172
Category 10: COCOA AND CHOCOLATES (375 g test portion) – ISO protocol– Extension No 3	175
Category 11: MILK POWDERS, INFANT FORMULA WITH OR WITHOUT PROBIOTICS (375 g test portion) – Specific protocol ⑤ – Extension No 3	178
Category 12: PET FOOD (375 g test portion) – Specific protocol ⑥– Extension No 4	183
Category 12: PET FOOD (375 g test portion) – ISO protocol – Extension No 4	185
Category 13: MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITHOUT PROBIOTICS including ingredients (25 g test portion) – Standard protocol – Extension No 5	188
Category 14: INFANT FORMULA AND INFANT CEREALS WITH PROBIOTICS (25 g test portion) – Specific protocol ⑦ – Extension No 5	191
Category 15: MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITH OR WITHOUT PROBIOTICS INCLUDING INGREDIENTS (375 g test portion) - Specific protocol ⑧ - Extension No 5	196
Category 16: PRIMARY PRODUCTION SAMPLES (25 g or sampling device) - Specific protocol ⑨ - Extension No 8	203
Category 17: MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITH OR WITHOUT PROBIOTICS, INCLUDING EARLY LIFE NUTRITION (375 g test portion) - Specific protocol ⑩ - Without BACTVIAB PMAxx - Extension No 9	204
Category 17: MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITH OR WITHOUT PROBIOTICS, INCLUDING EARLY LIFE NUTRITION (375 g test portion) - Specific protocol ⑩ - With BACTVIAB PMAxx - Extension No 13	209
Category 18: RAW MATERIAL FOR CHOCOLATE INDUSTRY (375 g test portion) - Specific protocol ⑪- Extension No 11	212
Category 18: RAW MATERIAL FOR CHOCOLATE INDUSTRY (375 g test portion) - Specific protocol ⑫- Extension No 11	218
Category 18: RAW MATERIAL AND FINISHED PRODUCTS FROM THE CHOCOLATE INDUSTRY (up 375 g test portion) - Specific protocol ⑪- Extension No 15	221
Category 18: RAW MATERIAL AND FINISH PRODUCTS FROM CHOCOLATE INDUSTRY (up 375 g test portion) - Specific protocol ⑫- Extension No 15	227
Category 19: CHOCOLATE AND CONFECTIONARIES (375 g test portion) - ISO protocol without BACTVIAB PMAxx protocol - Extension No 10	230
Category 20: INGREDIENTS (375 g test portion) - ISO protocol without BACTVIAB PMAxx protocol - Extension No 10	234
Category 21: PET FOOD FOR CAT AND DOG (up to 375 g) - ISO protocol - With BACTVIAB PMAxx - Extension No 12	237

Category 1: READY-TO-EAT AND READY-TO-REHEAT – Standard protocol – Extension No 2

READY-TO-EAT AND READY-TO-REHEAT – Standard protocol – Extension No 2																																								
Year of analysis	Sample N°	Product	ISO 6579* method	Alternative method: GENE-UP <i>Salmonella</i>																										Category	Type									
			Result	BPW 18h 37°C														BPW 18h 37°C +72h at 5 ± 3°C																						
				PCR			Confirmation								Final result	Agree ment	PCR-BPW 72h			PCR-Lysate 72h			Confirmation				Final result		Agreement											
							Direct streaking				Subculture SX2												Direct streaking		Subculture SX2							Confirmation final result								
				6h at 41.5°C ± 1.0°C		24h at 41.5°C ± 1.0°C					6h at 41.5°C ± 1.0°C																													
				Cp	Tm	Result	Typical colonies				Typical colonies						Confirmation final result	Cp	Tm	Re sult	Cp	Tm	Result	Typical colonies		Typical colonies														
																												ChromID Salmonella	XLD				ASAP	RAPID' Salmonella	XLD	ASAP	XLD	ASAP	XLD	ASAP
			2016	6818	Citrus salad	+	22.15	66.44	+	-	-	+m	+m(1)/+	-										+1/2		+	+	PA	22.68			66.25	+	21.66	66	+	-	+m		
2016	6819	Fruits salad	-	0	0	-	-	-	-	-			-	-	NA																							1	a	
2016	6820	Sandwich ham/cheese	+	26	65.69	+	+m	+M	+m	+1/2	+M	+M		+	+	PA	25.78	65.76	+	25.01	65.89	+	+M	+m			+	+	+	PA	PA	1	a							
2016	6821	Sandwich ham/butter	+	24.11	66.48	+	+1/2	+1/2	+1/2	+m	+M	+M		+	+	PA	24.6	65.96	+	23.09	65.94	+	+M	+M			+	+	+	PA	PA	1	a							
2016	6912	Mayonnaise	+	27.87	66.17	+	+p	+p	+p	+p	+p	+p		+	+	PA	25.19	66.14	+	26.2	65.86	+	+p	+p			+	+	+	PA	PA	1	a							
2016	6913	Pastry	+	25.08	65.88	+	+m	+m	+1/2	+M	+M	+M		+	+	PA	24.46	66.02	+	24.79	65.63	+	+m	+m			+	+	+	PA	PA	1	a							
2016	6914	Terrine crab/lobster	+	21.95	66.77	+	+p	+p	+p	+p	+p	+p		+	+	PA	21.68	66.2	+	20.95	66.33	+	+p	+p			+	+	+	PA	PA	1	a							
2016	6915	Terrine crab/lobster	+	21.72	66.71	+	+p	+p	+p	+p	+p	+p		+	+	PA	20.84	66.58	+	20.89	66.48	+	+p	+p			+	+	+	PA	PA	1	a							
2016	6916	Ham	+	24.32	66.06	+	+M	+M	+p	+M	+p	+p		+	+	PA	24.82	66.04	+	23.81	66.41	+	+M	+M			+	+	+	PA	PA	1	a							
2016	6917	Pâté	+	30.5	66.1	+	+1/2/+	+p	+p	+p	+p	+p		+	+	PA	23.88	66.14	+	30 3	66.01	+	+p	+p			+	+	+	PA	PA	1	a							
2016	7121	Seafood terrine	-	0	0	-	st	st	st	st			st	st	-	-	NA														1	a								
2016	7122	Sandwich chicken/egg	-	0	0	-	-	-	-	-			-	-	-	-	NA														1	a								
2016	7123	Sandwich ham/cheese	-	0	0	-	-	-	-	-			-	-	-	-	NA														1	a								
2016	7124	Seasoned grated carrots	-	0	0	-	-	-	-	-			-	-	-	-	NA														1	a								
2016	7125	Seasoned celery	-	0	0	-	-	-	-	-			-	-	-	-	NA														1	a								
2016	7126	Seasoned cucumber	-	0	0	-	-	-	-	-			-	-	-	-	NA														1	a								
2016	7127	Ham	-	0	0	-	-	-	-	-			st	st	-	-	NA														1	a								
2016	7128	Mayonnaise	-	0	0	-	st	st	st	st			st	st	-	-	NA														1	a								
2016	7129	Fruits salad	-	0	0	-	-	-	-	-			st	st	-	-	NA														1	a								
2017	1042	Seafood terrine	-	0	0	-	st	st	st	st			st	st	-	-	NA														1	a								
2016	6918	Tuna quiche	+	22.46	66.58	+	+p	+p	+p	+p	+p	+p		+	+	PA	22.58	66.53	+	21.68	66.28	+	+p	+p			+	+	+	PA	PA	1	b							
2016	6919	Salmon/broccoli quiche	+	28.98	66.26	+	+p	+p	+p	+p	+p	+p		+	+	PA	27.31	66.29	+	28.46	65.89	+	+p	+p			+	+	+	PA	PA	1	b							

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READY-TO-EAT AND READY-TO-REHEAT – Standard protocol – Extension No 2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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				6h at 41.5°C ± 1.0°C		24h at 41.5°C ± 1.0°C					6h at 41.5°C ± 1.0°C		Typical colonies				Typical colonies		Typical colonies		Typical colonies																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
								Cp	Tm	Result														ChromID Salmonella	XLD	ASAP	RAPID' Salmonella	XLD	ASAP			XLD	ASAP		Cp	Tm	Re sult	Cp	Tm	Result	XLD	ASAP	XLD	ASAP																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														

READY-TO-EAT AND READY-TO-REHEAT – Standard protocol – Extension No 2																																	
Year of analysis	Sample N°	Product	ISO 6579♦ method	Alternative method: GENE-UP <i>Salmonella</i>																								Category	Type				
			Result	BPW 18h 37°C													BPW 18h 37°C +72h at 5 ± 3°C																
				PCR			Confirmation								Final result	Agree ment	PCR-BPW 72h			PCR-Lysate 72h			Confirmation							Final result		Agreement	
							Direct streaking				Subculture SX2												Direct streaking		Subculture SX2		Confirmation final result						
				6h at 41.5°C ± 1.0°C		24h at 41.5°C ± 1.0°C					6h at 41.5°C ± 1.0°C																						
				Cp	Tm	Result	Typical colonies				Typical colonies						Cp	Tm	Re sult	Cp	Tm	Result	Typical colonies		Typical colonies								
							ChromID Salmonella	XLD	ASAP	RAPID' Salmonella	XLD	ASAP	XLD	ASAP									XLD	ASAP	XLD	ASAP							
2016	7216	Smoked duck	-	0	0	-	st	st	st	st			st	st			-	-	NA													1	c
2016	7217	Smoked duck	-	0	0	-	-	-	-	st			st	st	-	-	NA														1	c	
2016	7218	Smoked mackerel	-	0	0	-	-	-	-	-			st	st	-	-	NA														1	c	
2016	7219	Smoked herring	-	0	0	-	-	-	-	-			st	st	-	-	NA														1	c	

Category 2: MEAT PRODUCTS– Standard protocol – Extension No 2

MEAT PRODUCTS – Standard protocol – Extension No 2																																		
Year of analysis	Sample N°	Product	ISO 6579* method	Alternative method: GENE-UP <i>Salmonella</i>																										Category	Type			
				BPW 18h 37°C														BPW 18h 37°C +72h at 5 ± 3°C																
			PCR			Confirmation										Final results	Agreement	PCR-BPW 72h			PCR-Lysate 72h			Confirmation				Final result				Agreement		
						Direct streaking				Subculture SX2		Confirmation final results	Direct streaking		Subculture SX2									Confirmation final result										
			6h at 41.5°C ± 1.0°C		24h at 41.5°C ± 1.0°C					6h at 41.5°C ± 1.0°C																								
			Cp	Tm	Result	Typical colonies				Typical colonies				Cp	Tm			Result	Cp	Tm	Result	Typical colonies			Typical colonies		BPW	Lysate	BPW			Lysate		
						ChromID Salmonella	XLD	ASAP	RAPID* Salmonella	XLD	ASAP	XLD	ASAP			XLD	ASAP					XLD	ASAP											
2016	6733	Pork kidneys	+	26.46	66.14	+	+m	+m	+1/2	+1/2	+1/2	+M			+	+	PA	25.58	65.9	+	26.0	66.31	+	-	+1/2			+	+	+	PA	PA	2	a
2016	6734	Pork meat	+	30.27	65.84	+	-	-	+md	+m	+m (1)/+	+m			+	+	PA	30.62	65.88	+	30.29	65.53	+	-	+m			+	+	+	PA	PA	2	a
2016	6736	Ground veal meat	-	0	0	-	+md	-	-	-		-	-	-	-	NA																2	a	
2016	6737	Pork meat	-	0	0	-	-	-	-	-		-	-	-	-	NA																2	a	
2016	6739	Pork meat	-	0	0	-	-	+md /-	-	-		-	-	-	-	NA																2	a	
2016	6740	Pork meat	-	0	0	-	-	-	-	-		-	-	-	-	NA																2	a	
2016	6741	Pork meat	-	0	0	-	-	+md /-	-	-		-	-	-	-	NA																2	a	
2016	6745	Pork meat	-	0	0	-	-	-	-	-		-	-	-	-	NA																2	a	
2016	6746	Pork meat	-	0	0	-	-	-	-	-		-	-	-	-	NA																2	a	
2016	6749	Pork meat	-	0	0	-	st	st	st	st			st	st	-	-	NA															2	a	
2016	6750	Pork meat	+	33.27	65.79	+	-	+md /-	-	-	+1/2	+1/2			+	+	PA	32.79	66.09	+	33.33	65.79	+	+m	+m			+	+	+	PA	PA	2	a
2016	6752	Pork meat	-	0	0	-	-	-	-	-		-	-	-	-	NA																2	a	
2017	1043	Ground beef	+	32.77	65.86	+	-	-	+md d/-	-	-	+md d/+	+md/+	+m	+	+	PA	33.32	66.42	+	32.87	66.26	+	+md/-	-	+md/- (- at 24h)	- (+m at 24h)	+	+	+	PA	PA	2	a
2017	1044	Pork meat	+	30.99	65.98	+	-	+md /+	+md d/+	+m/+	+md/+	+md d/+	+1/2	+	+	PA	29.98	65.91	+	29.83	65.87	+	+md/+	+md/+	+m/+	+m/+	+	+	+	PA	PA	2	a	
2017	1046	Ground beef	-	0	0	-	-	-	-	-			+md/-	-	-	-	NA	0	0	-	0	0	-	+md/-	-			-	-	-	NA	NA	2	a
2017	1047	Pork meat	-	0	0	-	-	-	-	-			+md/+	-	-	-	NA	0	0	-	0	0	-	+m/-	-			-	-	-	NA	NA	2	a
2017	1048	Ground beef	-	0	0	-	-	-	-	-			+md/-	-	-	-	NA	0	0	-	0	0	-	-	-			-	-	-	NA	NA	2	a
2017	1049	Mechanically separated pork meat	-	0	0	-	-	+md /-	-	-			+md/-	-	-	-	NA	0	0	-	0	0	-	+md/-	-			-	-	-	NA	NA	2	a
2017	1593	Pork meat	-	0	0	-	-	-	-	-			-	-	-	-	NA															2	a	
2017	1596	Veal meat	-	0	0	-	-	-	-	-			-	-	-	-	NA															2	a	
2017	1597	Lamb meat	+	27.92	65.79	+	+m	+M	+m	+M	+M	+M			+	+	PA	26.61	66.23	+	27.64	66.17	+	+M	+1/2	+M	+M	+	+	+	PA	PA	2	a
2017	1598	Ground beef	+	26.99	66	+	+md/+	+m	+m	+M	+M	+1/2			+	+	PA	27.45	65.99	+	26.19	65.96	+	+m/+	+md/	+M	+M	+	+	+	PA	PA	2	a
2017	1599	Beef meat	+	34.14	66.14	+	+md/-	+m	+m	+m/-	+md/+	+m			+	+	PA	34.18	66.35	+	34.73	65.92	+	+m/-	-	+md/+	+m	+	+	+	PA	PA	2	a

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MEAT PRODUCTS – Standard protocol – Extension No 2																																			
Year of analysis	Sample N°	Product	ISO 6579♦ method	Alternative method: GENE-UP <i>Salmonella</i>																										Category	Type				
			Result	BPW 18h 37°C														BPW 18h 37°C +72h at 5 ± 3°C																	
				PCR			Confirmation										Final results	Agreement	PCR-BPW 72h			PCR-Lysate 72h			Confirmation							Final result		Agreement	
							Direct streaking				Subculture SX2				Confirmation final results	Direct streaking									Subculture SX2		Confirmation final result								
				6h at 41.5°C ± 1.0°C		24h at 41.5°C ± 1.0°C					6h at 41.5°C ± 1.0°C																								
				Cp	Tm	Result	Typical colonies				Typical colonies					Cp			Tm	Result	Typical colonies		Typical colonies		BPW	Lysate		BPW	Lysate						
ChromID Salmonella	XLD	ASAP	RAPID [®] Salmonella				XLD	ASAP	XLD	ASAP	XLD	ASAP	XLD	ASAP							XLD	ASAP													
2017	1600	Beef meat	+	32.96	66.07	+	-	+md/+	+m d/+	+m/+	+M	+M			+	+	PA	31.61	66.07	+	33.17	66.03	+	+m/+	+md/	+M	+M	+	+	+	PA	PA	2	a	
2017	1601	Lamb meat	+	28.97	66.03	+	-	+m/+	+m d/+	+M	+md/+	+M			+	+	PA	27.86	65.97	+	28.11	65.94	+	+m/+	+md/	+m	+M	+	+	+	PA	PA	2	a	
2017	1602	Lamb meat	-	0	0	-	-	+m	-	-			-	-	-	-	NA	0	0	-	0	0	-	+m/+d	+m/-	-	-	-	-	-	NA	NA	2	a	
2017	1616	Ground beef	+	32.55	65.91	+	-	-	-	+m/-	-	-	-	+m	+	+	PA	33.12	65.99	+	32.44	65.85	+	-	-	+m	-	+	+	+	PA	PA	2	a	
2017	1617	Veal meat	-	0	0	-	-	-	-	-			-	-	-	-	NA																2	a	
2017	1622	Ground beef and pork	-	0	0	-	-	-	-	-			-	-	-	-	NA																2	a	
2017	1623	Pork meat	+	33.05	65.95	+	-	-	-	-	-	-	+m	+m	+	+	PA	33.81	65.99	+	33.06	66.02	+	-	-	- (+m at 24h)	- (+m at 24h)	+	+	+	PA	PA	2	a	
2017	1874	Pork meat	-	0	0	-	-	-	-	-			-	-	-	-	NA																2	a	
2017	1875	Pork meat	-	0	0	-	-	-	-	-			-	-	-	-	NA																2	a	
2017	1877	Ground beef	-	0	0	-	-	+md/-	-	-			-	-	-	-	NA																2	a	
2016	6738	Poultry meat	-	0	0	-	-	+md/-	-	-			-	-	-	-	NA																2	b	
2016	6742	Poultry meat	+	25.86	66.27	+	+m	+1/2	+M	+1/2	+M	+M			+	+	PA	25.81	66.04	+	25.63	66.37	+	+m	+1/2			+	+	+	PA	PA	2	b	
2016	6743	Poultry meat	+	29.23	65.82	+	-	+m	+m	+m	+M	+M			+	+	PA	29.21	66.02	+	28.13	66.24	+	+m	+m			+	+	+	PA	PA	2	b	
2016	6744	Poultry meat	-	0	0	-	-	-	-	-			-	-	-	-	NA																2	b	
2016	6747	Poultry meat	-	0	0	-	-	-	-	-			-	-	-	-	NA																2	b	
2016	6748	Poultry meat	-	0	0	-	-	-	-	-			-	-	-	-	NA																2	b	
2016	6751	Poultry meat	-	0	0	-	-	+md	-	-			-	-	-	-	NA																2	b	
2016	6753	Poultry meat	+	24.06	66.32	+	+md	+1/2	+1/2	+M	+M	+M			+	+	PA	25.29	65.93	+	24.43	66.24	+	+m	+M			+	+	+	PA	PA	2	b	
2016	6754	Poultry meat	-	0	0	-	-	-	-	-			-	-	-	-	NA																2	b	
2016	6755	Poultry meat	-	0	0	-	-	-	-	-			-	-	-	-	NA																2	b	
2017	1045	Coppa	-	0	0	-	-	-	-	-			+md/-	+md/-	-	-	NA	0	0	-	0	0	-	-	-			-	-	-	NA	NA	2	b	
2017	1050	Poultry meat	-	0	0	-	-	+m	-	-			-	-	-	-	NA	0	0	-	0	0	-	-	-			-	-	-	NA	NA	2	b	
2017	1051	Mechanically separated poultry meat	+	30.72	65.69	+	-	+md/-	+m/+	+m/+	+m	+m/+	+M	+m	+	+	PA	31.27	66.19	+	30.68	66.02	+	+md/+	+md/+	+m	+m	+	+	+	PA	PA	2	b	
2017	1052	Poultry meat	+	31.07	65.75	+	-	+md/-	+m d/+	+m	+md/+	+m d/+	+m	+m/+	+	+	PA	32.09	65.87	+	31.08	65.86	+	+md/+	+md/+	+md/+	+md/+	+	+	+	PA	PA	2	b	
2017	1053	Poultry meat	+	33.73	65.71	+	-	+m	+m/+	+m/-	-	-	+md/+	+m	+	+	PA	32.81	65.84	+	33.58	65.98	+	+md/+	-	+md/+ (+m at 24h)	- (+m at 24h)	+	+	+	PA	PA	2	b	
2017	1054	Poultry meat	-	0	0	-	-	-	-	-			-	-	-	-	NA	0	0	-	0	0	-	+md/-	-			-	-	-	NA	NA	2	b	
2017	1055	Poultry meat	-	0	0	-	-	-	-	-			+md/-	-	-	-	NA	0	0	-	0	0	-	+md/-	-			-	-	-	NA	NA	2	b	
2017	1056	Poultry meat	-	0	0	-	-	-	-	-			-	-	-	-	NA	0	0	-	0	0	-	-	-			-	-	-	NA	NA	2	b	

MEAT PRODUCTS – Standard protocol – Extension No 2																																		
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				PCR			Confirmation								Final results	Agreement	PCR-BPW 72h			PCR-Lysate 72h			Confirmation				Final result		Agreement					
							Direct streaking				Subculture SX2												Direct streaking		Subculture SX2							Confirmation final result		
				6h at 41.5°C ± 1.0°C		24h at 41.5°C ± 1.0°C					6h at 41.5°C ± 1.0°C																							
				Cp	Tm	Result	Typical colonies				Typical colonies						Confirmation final results		Cp	Tm	Result	Cp	Tm	Result	Typical colonies		Typical colonies							
																									ChromID Salmonella	XLD	ASAP	RAPID Salmonella	XLD				ASAP	XLD
2017	1603	Poultry meat	-	0	0	-	-	+m	+m	-		-	-	-			-	NA	0	0	-	0	0	-	+m	-	-	-	-	-	NA	NA	2	b
2017	1604	Poultry meat	+	30.42	66.09	+	-	+md /-	+m	+1/2/+	+M	+1/2		+	+	PA	30.14	66.11	+	28.28	66.12	+	-	-	+M	+1/2	+	+	+	PA	PA	2	b	
2017	1605	Poultry meat	+	32.96	65.91	+	-	+md /+	+m	+m/+	+M	+M		+	+	PA	33.15	66.1	+	32.13	66.16	+	+m	+M	+M	+M	+	+	+	PA	PA	2	b	
2017	1606	Poultry meat	-	0	0	-	-	+md	+m	-			-	-	-	NA	0	0	-	0	0	-	-	-	-	-	-	-	-	NA	NA	2	b	
2017	1607	Poultry meat	+	34.82	65.92	+	+md/-	+md /+	-	-	+m	-	+m	+m	+	+	PA	33.96	65.99	+	32,9;	65.89	+	+md/ +	-	- (+m at 24h)	- (+m at 24h)	+	+	+	PA	PA	2	b
2017	1608	Poultry meat	+	34.64	65.87	+	-	+md /+	-	-	+m	+m/ +	+m	+m	+	+	PA	33.7	65.9	+	33.26	65.82	+	+md/ +	-	+m	+m	+	+	+	PA	PA	2	b
2017	1618	Poultry meat	-	0	0	-	-	-	+m	-			-	-	-	NA	0	0	-	0	0	-	+m	+m	-	-	+	-	-	NA FN(alt)	NA FN(alt)	2	b	
2017	1619	Poultry meat	-	0	0	-	-	+m	-	-			-	-	-	NA	0	0	-	0	0	-	-	-	+md/-	-	-	-	-	NA	NA	2	b	
2017	1620	Poultry meat	+	32.66	66.01	+	-	-	-	+m/+	+md/ -	-	+m	-	+	+	PA	31.27	65.79	+	30.77	65.91	+	+m(1)	+m/+	+md/-	+md/+	+	+	+	PA	PA	2	b
2017	1621	Poultry meat	-	0	0	-	-	-	-	-			-	-	-	NA	0	0	-	0	0	-	-	-	-	-	-	-	-	NA	NA	2	b	
2017	1876	Poultry meat	+	33.17	66.27	+	-	+md /+	+m d/+	-	+md/ +	-	+md/ +	+m	+	+	PA	32.81	66.2	+	33.08	66.05	+	-	+m/+	+m	-	+	+	+	PA	PA	2	b
2017	1878	Mechanically separated poultry meat	+	34.53	66.54	+	-	-	+m d/+	+m/+	+m	+m d/+	+m/+	+m	+	+	PA	31.52	65.93	+	31.4	65.9	+	-	+m/+	+m	+m	+	+	+	PA	PA	2	b
2016	6735	Sausage	+	32.75	66.05	+	+md	+m/-	-	+m	+md/ +	+m		+	+	PA	34.3	66.13	+	32.81	65.81	+	-	-	+m	+m	+	+	+	PA	PA	2	c	
2017	1579	Chorizo	-	0	0	-	-	-	-	-			-	-	-	NA																2	c	
2017	1580	Chorizo Chipolata	+	33.68	65.68	+	-	+md (1)/+	+1/2d	+md (3)/-	+m	+m	+m	+M	+	+	PA	31.76	61.92	+	0/ 32.89/ 32.72	0/ 61.48/ 61.56	- /+ /+	-	-	+m	+m	+	+	-	PA	ND FN(alt)	2	c
2017	1581	Chipolata	+	28.76	65.74	+	+m/+	-	+m/ +	+m	+m	+1/2	+m	+M	+	+	PA	28.97	65.9	+	32.46	65.89	+	+m	+md/ +	+m	+m	+	+	+	PA	PA	2	c
2017	1582	Chorizo	-	0	0	-	-	-	-	-			-	-	-	NA																2	c	
2017	1583	Chipolata	-	0	0	-	-	-	-	-			+md/ -	-	-	NA	0	0	-	0	0	-	-	-	-	-	-	-	-	NA	NA	2	c	
2017	1584	Chipolata	+	0/0/0	0/0/0	-/-/-	-	-	-	-			+md/ -	-	- (ref+)	ND FN(alt)	0	0	-	0	0	-	-	-	+md/-	-	-	-	-	ND	ND	2	c	
2017	1585	Sausage stuffing	-	0	0	-	-	-	-	-			+md/ -	-	-	NA	0	0	-	0	0	-	+md/-	-	+md/-	-	-	-	-	NA	NA	2	c	
2017	1586	Chipolata	-	0	0	-	-	-	-	-			+md/ -	-	-	NA	0	0	-	0	0	-	+md/-	-	+md/-	-	-	-	-	NA	NA	2	c	
2017	1587	Chorizo	-	0	0	-	-	-	-	-			-	-	-	NA																2	c	
2017	1588	Sausage	-	0	0	-	-	-	-	-			-	-	-	NA	0	0	-	0	0	-	+md/-	-	+md/-	-	-	-	-	NA	NA	2	c	
2017	1589	Sausage stuffing	+	32.62	65.85	+	+md(2)	-	+m d/+	-	-	+m/ +	+md/ -	+M	+	+	PA	32.06	66.25	+	32.65	66.23	+	-	-	+m	+md/+	+	+	+	PA	PA	2	c

MEAT PRODUCTS – Standard protocol – Extension No 2																																			
Year of analysis	Sample N°	Product	ISO 6579♦ method	Alternative method: GENE-UP <i>Salmonella</i>																								Category	Type						
				BPW 18h 37°C														BPW 18h 37°C +72h at 5 ± 3°C																	
			PCR			Confirmation										Final results	Agreement	PCR-BPW 72h			PCR-Lysate 72h			Confirmation						Final result		Agreement			
						Direct streaking				Subculture SX2		Confirmation final results	Direct streaking		Subculture SX2									Confirmation final result											
			6h at 41.5°C ± 1.0°C		24h at 41.5°C ± 1.0°C					Typical colonies			Typical colonies		Typical colonies			Typical colonies																	
			Cp	Tm	Result	Typical colonies				Typical colonies				Cp	Tm			Result	Cp	Tm	Result	Cp	Tm		Result	Cp	Tm			Result	BPW	Lysate	BPW	Lysate	
						ChromID Salmonella	XLD	ASAP	RAPID Salmonella	XLD	ASAP		XLD																						ASAP
2017	1590	Sausage	-	0	0	-	-	-	-	-	-	-	-	-	-	NA														2	c				
2017	1591	Chipolata	-	0	0	-	-	-	-	-	-	-	-	-	-	NA														2	c				
2017	1592	Sausage stuffing	+	31.04	65.99	+	-	-	+m d/+	+m/+	-	+m/+	+M	+M	+	+	PA	30.45	65.94	+	30.8;	65.83	+	-	-	+m	+md/+	+	+	+	PA	PA	2	c	
2017	1609	Salami	-	0	0	-	st	st	st	st			st	st	-	-	NA													2	c				
2017	1610	Smoked salami	-	0	0	-	st	st	st	st			st	st	-	-	NA													2	c				
2017	1611	Chipolata	+	34.44	66.21	+	-	-	+m	+m/-	-	+m d/+	+m	+m	+	+	PA	34.03	66.04	+	33.82	65.91	+	-	+md/-	+md/+	+m	+	+	+	PA	PA	2	c	
2017	1612	Sausage of Montbéliard	+	24.22	66.17	+	+m	+M	+M	+M	+M	+M			+	+	PA	24.22	66.03	+	24.83	66.01	+	+1/2	+m	+M	+M	+	+	+	PA	PA	2	c	
2017	1613	Bacon	+	24	65.83	+	+m	+M	+M	+M	+M	+M			+	+	PA	24.9	65.91	+	22.2	65.86	+	+M	+M	+M	+1/2	+	+	+	PA	PA	2	c	
2017	1614	Smoked bacon	+	24.2	65.91	+	+p	+p	+p	+p	+p	+p			+	+	PA	24.61	66.26	+	23.33	66.23	+	+p	+M	+p	+p	+	+	+	PA	PA	2	c	
2017	1615	Sausage	-	0	0	-	-	-	+m	-			-	-	-	-	NA	0	0	-	0	0	-	-	-	-	-	-	-	-	NA	NA	2	c	

Category 3: DAIRY PRODUCTS – Standard protocol – Extension No 2

DAIRY PRODUCTS – Standard protocol – Extension No 2																																		
Year of analysis	Sample N°	Product	ISO 6579* method	Alternative method: GENE-UP <i>Salmonella</i>																										Category	Type			
				BPW 18h 37°C														BPW 18h 37°C +72h at 5 ± 3°C																
				PCR			Confirmation								Confirmation final result	Final result	Agreement	PCR-BPW 72h			PCR-Lysate 72h			Confirmation				Final result				Agreement		
							Direct streaking				Subculture SX2													Direct streaking		Subculture SX2								Confirmation final result
				6h at 41.5°C ± 1.0°C		24h at 41.5°C ± 1.0°C					6h at 41.5°C ± 1.0°C																							
				Cp	Tm	Result	Typical colonies				Typical colonies													Cp	Tm	Result	Cp							
																		XLD	ASAP	XLD	ASAP	XLD	ASAP											
ChromID Salmonella	XLD	ASAP	RAPID* Salmonella	XLD	ASAP	XLD	ASAP	Cp	Tm	Result	XLD	ASAP	XLD	ASAP	BPW	Lysate	BPW	Lysate																
2016	5615	Pasteurized milk cheese	+	28.14	56.51	+	+m	+m	+m	+1/2	+M	+p		+	+	PA	26.9	56.42	+	27.84	56.64	+	+1/2	+1/2			+	+	+	PA	PA	3	a	
2016	5616	Pasteurized milk cheese	+	28.88	56.53	+	+m	+m	+1/2	+M	+M	+p		+	+	PA	27.43	55.9	+	28.3	56.53	+	+m(3)	+1/2			+	+	+	PA	PA	3	a	
2016	5617	Pasteurized milk cheese	+	34.88	56.3	+	-	-	+m/+	-	-	+m		+	+	PA	33 3	56.17	+	34.55	56.48	+	-	-	+1/2 (24h)	+p (24h)	+	+	+	PA	PA	3	a	
2016	5618	Pasteurized milk cheese	+	33	65.73	+	-	-	+m/+	+m	-	+m		+	+	PA	29.02	66.45	+	33.55	66.02	+	-	-	+M (24h)	+p (24h)	+	+	+	PA	PA	3	a	
2016	5619	Pasteurized milk cheese	+	25.56	66.59	+	+p	+p	+p	+M	+p	+p		+	+	PA	23.95	66.46	+	25.92	66.41	+	+p	+M			+	+	+	PA	PA	3	a	
2016	6903	Ice cream	+	24.97	65.9	+	+p	+p	+p	+p	+p	+p		+	+	PA	24.92	65.92	+	25.5	65.94	+	+p	+p			+	+	+	PA	PA	3	a	
2016	6904	Ice cream	-	0	0	-	st	st	st	st	st	st	st	-	-	NA																3	a	
2016	6905	Ice cream	+	24.42	65.79	+	+p	+p	+p	+p	+p	+p		+	+	PA	24.63	66.53	+	24.76	66.04	+	+p	+p			+	+	+	PA	PA	3	a	
2016	6906	Ice cream	+	25.5	66.07	+	+p	+p	+p	+p	+p	+p		+	+	PA	26.06	66.52	+	25.56	65.93	+	+p	+p			+	+	+	PA	PA	3	a	
2016	7208	Pasteurized milk	+	25.01	66.61	+	+p	-	+p	+p	-	+p		+	+	PA	22.62	66.12	+	24.93	66.28	+	-	+p			+	+	+	PA	PA	3	a	
2016	7209	Tiramisu	+	29.82	66.1	+	+p	+p	+p	+p	+p	+p		+	+	PA	27.99	65.93	+	29.33	65.72	+	+p	+p			+	+	+	PA	PA	3	a	
2016	7210	Panna cotta	+	21.61	66.55	+	+p	+p	+p	+p	+p	+p		+	+	PA	21.54	66.5	+	21.54	66.32	+	+p	+p			+	+	+	PA	PA	3	a	
2016	7220	Pasteurized milk	-	0	0	-	-	st	st	st			st	st	-	-	NA															3	a	
2016	7221	Pasteurized milk cheese	-	0	0	-	-	-	-	-			-	-	-	-	NA															3	a	
2016	7222	Pasteurized milk cheese	-	0	0	-	-	-	st	st			st	st	-	-	NA															3	a	
2016	7223	Pasteurized milk	-	0	0	-	st	st	st	st			st	st	-	-	NA															3	a	
2016	7224	Tiramisu	-	0	0	-	st	st	st	st			st	st	-	-	NA															3	a	
2016	7225	Panna cotta	-	0	0	-	st	st	st	st			st	st	-	-	NA															3	a	
2017	210	Dairy dessert	-	0	0	-	st	st	st	st			st	st	-	-	NA															3	a	
2017	211	Pasteurized camembert	-	0	0	-	-	-	-	-			-	-	-	-	NA															3	a	
2016	2135	Raw cream	+	0/0/34.18	0/0/66.26	-/-/+	-	-	-	-			+m	+m	+	-	ND FN(alt)	0	0	-	0	0	-	-	-	-	+m/+	+	-	-	ND FN(alt)	ND FN(alt)	3	b
2016	2136	Raw cream	-	0	0	-	-	-	-	-			-	st	-	-	NA															3	b	
2016	2137	Raw cream	+	33.94	67.34	+	-	+m(1)/+	+m d/+	+m/+	+m	+m			+	+	PA	32.86	67.29	+	33.34	67.47	+	-	+md/+	+M	+p	+	+	+	PA	PA	3	b
2016	2138	Raw cream	+	0/0/35,21	0/0/67,46	-/-/+	-	-	+m d/+	+m(2)/+	+m	+m	+M	+M	+	-	ND FN(alt)	0	67.68	+	35.93	67.76	+	-	+md/+	-	+md/+	+	+	+	PA	PA	3	b

* Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

DAIRY PRODUCTS – Standard protocol – Extension No 2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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Year of analysis	Sample N°	Product	ISO 6579* method	Alternative method: GENE-UP <i>Salmonella</i>																										Category	Type									
			Result	BPW 18h 37°C													BPW 18h 37°C +72h at 5 ± 3°C																							
				PCR			Confirmation								Final result	Agree ment	PCR-BPW 72h			PCR-Lysate 72h			Confirmation					Final result				Agreement								
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				Cp	Tm	Result	Typical colonies				Typical colonies						Cp	Tm	Re sult	Cp	Tm	Result	Typical colonies		Typical colonies															
																												ChromID Salmonella	XLD			ASAP	RAPID* Salmonella	XLD	ASAP	XLD	ASAP	XLD	ASAP	
2016	4688	Lactoserum	+	33.08	65.53	+	+p	+p	+p	+p	+p	+p											+	+	PA	33.02		65.6	+	32.65	65.76	+	+p	+p			+	+	+	PA
2016	4689	Skimmed milk powder	+	27.02	65.77	+	+p	+p	+p	+p	+p	+p			+	+							PA	25.97	65.68	+	27.08	65.82	+	+p	+p			+	+	+	PA	PA	3	c
2016	4690	Skimmed milk powder	+	30.84	65.63	+	+p	+p	+p	+p	+p	+p			+	+							PA	27.73	65.67	+	30.75	65.81	+	+p	+p			+	+	+	PA	PA	3	c
2016	4691	Skimmed milk powder	+	30.58	65.73	+	+p	+p	+p	+p	+p	+p			+	+	PA	30.45	65.58	+	31.28	65.34	+	+p	+p			+	+	+	PA	PA	3	c						
2016	4692	Skimmed milk powder	+	34.48	65.79	+	+p	+p	+p	+p	+p	+p			+	+	PA	34.99	65.77	+	35.01	65.87	+	+p	+p			+	+	+	PA	PA	3	c						
2016	4693	Skimmed milk powder	-	0	0	-	st	st	st	st			st	st	-	-	NA																3	c						
2016	4987	Maltodextrin	-	0	0	-	st	st	st	st			st	st	-	-	NA																3	c						
2016	4988	Milk proteins	-	0	0	-	st	st	st	st			st	st	-	-	NA																3	c						
2016	4989	Caseinate	-	0	0	-	st	st	st	st			st	st	-	-	NA																3	c						
2016	4990	Lactoserum	-	0	0	-	st	st	st	st			st	st	-	-	NA																3	c						
2016	5216	Skimmed milk powder	-	0	0	-	st	st	st	st			st	st	-	-	NA																3	c						
2016	5217	Semi-skimmed milk powder	-	0	0	-	st	st	st	st			st	st	-	-	NA																3	c						
2016	5218	Skimmed milk powder	-	0	0	-	st	st	st	st			st	st	-	-	NA																3	c						
2016	5219	Milk powder	-	0	0	-	st	st	st	st			st	st	-	-	NA																3	c						
2016	5220	Semi-skimmed milk powder	-	0	0	-	st	st	st	st			st	st	-	-	NA																3	c						
2016	6891	Milk powder	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA																3	c						
2016	6892	Milk powder	+	30.42	65.64	+	+p	+p	+p	+p	+p	+p			+	+	PA	27.69	65.75	+	29.8	66.24	+	+p	+p			+	+	+	PA	PA	3	c						
2016	6893	Milk powder	+	27.28	65.95	+	+p	+p	+p	+p	+p	+p			+	+	PA	24.98	66.03	+	28.76	65.85	+	+p	+p			+	+	+	PA	PA	3	c						
2016	6894	Milk powder	+	32.05	65.71	+	+p	+M	+M	+p	+p	+p			+	+	PA	31.74	65.73	+	31.9	65.65	+	+p	+p			+	+	+	PA	PA	3	c						
2016	6895	Milk powder	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA																3	c						
2016	6896	Milk powder	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA																3	c						
2016	6897	Lactoserum	+	31.86	65.73	+	+p	+p	+p	+p	+p	+p			+	+	PA	30.97	66.01	+	31.52	65.92	+	+p	+p			+	+	+	PA	PA	3	c						
2016	6898	Lactoserum	+	27.58	66.08	+	+p	+p	+p	+p	+p	+p			+	+	PA	24.8	66.56	+	28.1	65.96	+	+p	+p			+	+	+	PA	PA	3	c						
2016	6899	Maltodextrin	+	22.43	66.02	+	+p	+p	+p	+p	+p	+p			+	+	PA	21.91	66.74	+	22.47	66.67	+	+p	+p			+	+	+	PA	PA	3	c						
2016	6900	Lactoserum	+	23.99	66.03	+	+p	+p	+p	+p	+p	+p			+	+	PA	23.57	66.22	+	23.62	66.25	+	+p	+p			+	+	+	PA	PA	3	c						
2016	6901	Lactoprotein	+	23.89	66.25	+	+p	+p	+p	+p	+p	+p			+	+	PA	24.58	66.08	+	23.81	66.65	+	+p	+p			+	+	+	PA	PA	3	c						
2016	6902	Caseinate	+	23.19	66.02	+	+p	+p	+p	+p	+p	+p			+	+	PA	23.57	66.35	+	26.73	65.96	+	+p	+p			+	+	+	PA	PA	3	c						
2016	7056	Milk powder	+	28.98	65.55	+	+p	+p	+p	+p	+p	+p			+	+	PA	26.27	66.02	+	30.05	65.03	+	+p	+p			+	+	+	PA	PA	3	c						
2016	7057	Milk powder	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA																3	c						
2016	7058	Maltodextrin	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA																3	c						
2016	7059	Caseinate	+	23.54	66.01	+	+p	+p	+p	+p	+p	+p			+	+	PA	24.48	66.02	+	24.45	65.62	+	+p	+p			+	+	+	PA	PA	3	c						
2016	7060	Lactose	+	25.49	65.82	+	+p	+p	+p	+p	+p	+p			+	+	PA	23.66	65.9	+	30.73	66.13	+	+p	+p			+	+	+	PA	PA	3	c						
2016	7061	Lactoserum	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA																3	c						
2016	7062	Caseine	+	23.77	65.89	+	+p	+p	+p	+p	+p	+p			+	+	PA	23.14	65.79	+	24.71	65.98	+	+p	+p			+	+	+	PA	PA	3	c						
2016	7211	Milk powder	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA																3	c						
2016	7212	Milk powder	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA																3	c						
2016	7213	Milk powder	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA																3	c						
2016	8075	Milk powder	+	31.87	65.27	+	+p	+p	+p	+p	+p	+p			+	+	PA	31.48	65.21	+	31.21	65.67	+	+p	+p			+	+	+	PA	PA	3	c						
2016	8076	Milk powder	+	23.78	65.94	+	+p	+p	+p	+p	+p	+p			+	+	PA	24.64	65.89	+	24.76	65.9	+	+p	+p			+	+	+	PA	PA	3	c						

Category 4: VEGETABLES (except sprouts), FRUITS, SEAFOOD – Standard protocol – Extension No 2

VEGETABLES (except sprouts), FRUITS, SEAFOOD – Standard protocol – Extension No 2																																		
Year of analysis	Sample N°	Product	ISO 6579* method	Alternative method: GENE-UP <i>Salmonella</i>																								Category	Type					
				BPW 18h 37°C														BPW 18h 37°C +72h at 5 ± 3°C																
				PCR			Confirmation								Final result	Agreement	PCR-BPW 72h			PCR-Lysate 72h			Confirmation				Final result			Agreement				
							Direct streaking				Subculture SX2												Direct streaking		Subculture SX2							Confirmation final result		
				6h at 41.5°C ± 1.0°C		24h at 41.5°C ± 1.0°C					6h at 41.5°C ± 1.0°C																							
				Cp	Tm	Result	Typical colonies				Typical colonies						Confirmation final result	Cp	Tm	Result	Cp	Tm	Result	Typical colonies		Typical colonies								
							ChromID Salmonella	XLD	ASAP	RAPID* Salmonella	XLD	ASAP	XLD	ASAP										XLD	ASAP									
2016	1925	Seafood	-	0	0	-	-	-	-	-	-	-	-	-	NA															4	a			
2016	1935	Salmon terrine	-	0	0	-	st	st	st	st			st	st	-	-	NA														4	a		
2016	2068	Frozen fish fillet	-	0	0	-	st	-	st	st			st	st	-	-	NA														4	a		
2016	2069	Frozen fish fillet	-	0	0	-	-	-	-	-			-	-	-	-	NA														4	a		
2016	2070	Frozen fish fillet	-	0	0	-	-	-	-	-			-	-	-	-	NA														4	a		
2016	2071	Surimi	-	0	0	-	st	st	st	st			st	st	-	-	NA														4	a		
2016	2072	Surimi	-	0	0	-	-	-	-	st			st	st	-	-	NA														4	a		
2016	2073	Shrimp	-	0	0	-	st	st	st	st			st	st	-	-	NA														4	a		
2016	2074	Shrimp	-	0	0	-	-	-	-	-			st	st	-	-	NA														4	a		
2016	2075	Seafood	-	0	0	-	-	+md /-	-	-			-	-	-	-	NA														4	a		
2016	2076	Seafood terrine	-	0	0	-	st	st	st	st			st	st	-	-	NA														4	a		
2016	2320	Shrimp	-	0	0	-	-	-	-	-			st	st	-	-	NA	0	0	-	0	0	-	-	-	-(24h)	-(24h)	-	-	-	NA	NA	4	a
2016	2970	Seafood terrine	+	23.29	67.59	+	+p	+p	+p	+p	+p	+p			+	+	PA	25.03	67.59	+	23.64	67.47	+	+p	+p			+	+	+	PA	PA	4	a
2016	2971	Seafood terrine	+	22.91	67.41	+	+p	+p	+p	+p	+p	+p			+	+	PA	24.83	67.6	+	22.44	67.32	+	+p	+p			+	+	+	PA	PA	4	a
2016	2972	Flaked crab	+	23.27	67.41	+	+p	+p	+p	+p	+p	+p			+	+	PA	24.7	67.78	+	22.79	67.3	+	+p	+p			+	+	+	PA	PA	4	a
2016	2973	Flaked crab	+	23.51	67.38	+	+p	+p	+p	+p	+p	+p			+	+	PA	25.65	67.77	+	23.86	67.31	+	+p	+p			+	+	+	PA	PA	4	a
2016	2974	Fish fillet	+	32.53	67.26	+	+m	+md /+	+m	+m	+p	+M			+	+	PA	32.74	67.72	+	32.48	67.28	+	-	+md/ +d			+	+	+	PA	PA	4	a
2016	2975	Fish fillet	+	28.71	67.26	+	+M	+1/2	+1/2	+M	+M	+p			+	+	PA	30.01	67.88	+	29.27	67.15	+	+m	+1/2			+	+	+	PA	PA	4	a
2016	2976	Surimi	+	23.08	67.23	+	+p	+p	+p	+p	+p	+p			+	+	PA	24.96	67.72	+	23.5	67.06	+	+p	+p			+	+	+	PA	PA	4	a
2016	4239	Fish fillet	+	29.25	65.8	+	+m	+1/2 d	+m	+md	+M	+M			+	+	PA	29.73	65.67	+	29.09	65.58	+	+m	+m			+	+	+	PA	PA	4	a
2016	4240	Fish fillet	+	29.74	65.9	+	+md	+1/2	+m d	+d	+p	+p			+	+	PA	30.45	65.89	+	29.76	65.59	+	+m	+1/2			+	+	+	PA	PA	4	a
2016	4241	Fish fillet	+	32.11	65.96	+	+md	+m	+m d	+m	+M	+M			+	+	PA	31.57	65.96	+	32.18	65.83	+	+m/+	+m			+	+	+	PA	PA	4	a
2016	4242	Fish fillet	-	0	0	-	-	+m/-	+m d	-			-	-	- (+72h)	-	NA	0/0/0	0/0/0	-/-/-	0/0/0	0/0/0	-/-/-	+md/-	+md			+	-	-	NA FN(alt)	NA FN(alt)	4	a
2016	4243	Fish fillet	+	27.69	65.98	+	+m	+M	+1/2	+1/2	+M	+p			+	+	PA	27.75	65.88	+	27.6	65.82	+	+1/2	+M			+	+	+	PA	PA	4	a
2016	1917	Sucrine	-	0	0	-	-	-	-	-			-	-	-	-	NA	0	0	-	0	0	-	-	-			-	-	-	NA	NA	4	b
2016	1919	Mâche	-	0	0	-	-	-	+1/2 d	-			st	st	-	-	NA															4	b	

* Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

VEGETABLES (except sprouts), FRUITS, SEAFOOD – Standard protocol – Extension No 2																																		
Year of analysis	Sample N°	Product	ISO 6579* method	Alternative method: GENE-UP <i>Salmonella</i>																								Category	Type					
			Result	BPW 18h 37°C												BPW 18h 37°C +72h at 5 ± 3°C																		
				PCR			Confirmation								Final result	Agreement	PCR-BPW 72h			PCR-Lysate 72h			Confirmation				Final result			Agreement				
							Direct streaking				Subculture SX2												Direct streaking		Subculture SX2							Confirmation final result		
				6h at 41.5°C ± 1.0°C		24h at 41.5°C ± 1.0°C					6h at 41.5°C ± 1.0°C																							
				Cp	Tm	Result	Typical colonies				Typical colonies						Cp	Tm	Result	Cp	Tm	Result	Typical colonies		Typical colonies									
ChromID Salmonella	XLD	ASAP	RAPID' Salmonella				XLD	ASAP	XLD	ASAP	XLD	ASAP	XLD	ASAP																				
2016	1921	Cress	-	0	0	-	+md	-	+m/-	-			-	-	-	-	NA														4	b		
2016	1922	Baby leaves	-	0	0	-	+md(2)	-	+md	-			-	-	-	-	NA															4	b	
2016	2060	Sucrine	-	0	0	-	st	st	st	st			st	st	-	-	NA															4	b	
2016	2066	Baby leaves	-	0	0	-	-	-	-	-			-	-	-	-	NA															4	b	
2016	2067	Baby leaves	-	0	0	-	-	-	-	-			-	-	-	-	NA															4	b	
2016	2339	Baby leaves	-	0	0	-	-	-	-	-			-	-	-	-	NA	0	0	-	0	0	-	-	-	+md/- (24h)	-(24h)	-	-	-	NA	NA	4	b
2016	2981	Baby leaves	+	32.4	67.39	+	+m	+m/+	+m	+m/+	+M	+M			+	+	PA	31.9	67.23	+	32.46	67.24	+	+d/-	+d/+			+	+	+	PA	PA	4	b
2016	2982	Baby leaves	+	28.61	67.31	+	+M	+1/2	+1/2	+M	+M	+M			+	+	PA	28.31	67.21	+	28.76	67.2	+	+m	+m			+	+	+	PA	PA	4	b
2016	2983	Baby leaves	+	30.75	67.31	+	+m/+	+m	+1/2	+1/2	+M	+M			+	+	PA	32.79	67.28	+	30.57	67.06	+	+m	+m			+	+	+	PA	PA	4	b
2016	2984	Baby leaves	+	28.06	67.02	+	+m	+m/-	+md	+m/-	-	-	+md/-	+md/+	+	+	PA	28.86	67.14	+	28.17	66.86	+	+d/-	+d/+			+	+	+	PA	PA	4	b
2016	2985	Baby leaves	+	29.63	67.26	+	+m	+m	+m	+m	+M	+M			+	+	PA	29.44	67.27	+	30.46	67.19	+	+m	+m			+	+	+	PA	PA	4	b
2016	2989	Mixed salad	+	29.63	67.36	+	+m	+m/+	+m/+	+M	+M	+M			+	+	PA	28.69	67.42	+	29.59	67.37	+	+m	+m			+	+	+	PA	PA	4	b
2016	2990	Mixed salad	+	26.87	67.32	+	+m	+1/2	+m	+M	+M	+M			+	+	PA	26.48	67.19	+	26.47	67.22	+	+m	+1/2			+	+	+	PA	PA	4	b
2016	2991	Sucrine	+	25.96	67.28	+	+1/2	+M	+1/2	+M	+M	+M			+	+	PA	25.9	67.3	+	25.71	67.35	+	+1/2	+1/2			+	+	+	PA	PA	4	b
2016	4244	Baby leaves	-	0	0	-	-	+md/-	-	-			-	-	-	-	NA	0	0	-	0	0	-	+md/-	+md			-	-	-	NA	NA	4	b
2016	4245	Baby leaves	-	0	0	-	-	+md/-	+m/+d	-			-	-	-	-	NA	0	0	-	0	0	-	+md/-	+m/-			-	-	-	NA	NA	4	b
2017	1495	Dill	+	24.86	66.08	+	+M	-	+m	+M	+M	+M			+	+	PA	24.68	66.1	+	24.24	66.08	+	+m	+m	+M	+M	+	+	+	PA	PA	4	b
2017	1496	Chive	+	35.43	65.93	+	-	-	-	+md/+	-	+M	+M	+p	+	+	PA	0/35.55/35.57	0/66.29/66.13	-/+	35.52	65.99	+	-	-	+m	+M	+	-	+	ND FN(alt)	PA	4	b
2017	1497	curly lettuce	+	24.23	66.04	+	+1/2	+M	+M	+M	+p	+p			+	+	PA	24.33	66.16	+	23.87	65.97	+	+M	+M	+M	+M	+	+	+	PA	PA	4	b
2017	1498	Lettuce	+	23.8	65.98	+	+M/+	+M	+M	+p	+p	+p			+	+	PA	23.92	66.19	+	23.7	66	+	+M	+M	+M	+M	+	+	+	PA	PA	4	b
2016	2061	Grated carrots	-	0	0	-	-	-	-	-			st	st	-	-	NA															4	c	
2016	2064	Frozen fruit mix	-	0	0	-	-	-	-	st			st	st	-	-	NA															4	c	
2016	2065	Frozen strawberry	-	0	0	-	-	-	-	-			st	st	-	-	NA															4	c	
2016	2085	Frozen carrots	-	0	0	-	-	-	-	-			st	st	-	-	NA															4	c	
2016	2086	Frozen mixed vegetables	-	0	0	-	-	-	-	-			-	-	-	-	NA															4	c	
2016	2344	Grated carrots	-	0	0	-	-	-	-	-			-	-	-	-	NA	0	0	-	0	0	-	-	-	-(24h)	-(24h)	-	-	-	NA	NA	4	c

VEGETABLES (except sprouts), FRUITS, SEAFOOD – Standard protocol – Extension No 2																																		
Year of analysis	Sample N°	Product	ISO 6579♦ method	Alternative method: GENE-UP <i>Salmonella</i>																								Category	Type					
			Result	BPW 18h 37°C												BPW 18h 37°C +72h at 5 ± 3°C																		
				PCR			Confirmation								Final result	Agreement	PCR-BPW 72h			PCR-Lysate 72h			Confirmation							Final result		Agreement		
							Direct streaking				Subculture SX2												Confirmation final result	Direct streaking		Subculture SX2								Confirmation final result
				6h at 41.5°C ± 1.0°C		24h at 41.5°C ± 1.0°C					6h at 41.5°C ± 1.0°C																							
				Cp	Tm	Result	Typical colonies				Typical colonies						Cp	Tm	Result	Cp	Tm	Result		Typical colonies		Typical colonies				BPW	Lysate	BPW	Lysate	
							ChromID Salmonella	XLD	ASAP	RAPID Salmonella	XLD	ASAP	XLD	ASAP										XLD	ASAP	XLD	ASAP							
2016	2986	White cabbage/ carrot/celery	+	31.8	67.59	+	+m	+md /+	+m	+m	+M/+	+m/ +					+	+	PA	32.09	67.61	+		31.74	67.41	+	+m	+m			+	+	+	
2016	2987	Red cabbage	+	23.94	67.29	+	+M	+1/2	+m	+M	+M	+M			+	+	PA	23.72	67.28	+	23.62	67.13	+	+1/2	+m			+	+	+	PA	PA	4	c
2016	2988	Grated carrots	+	34.93	67.48	+	+md/ +	+md /+	+m d/+	+md/-	+m/-	+m d/+			+	+	PA	34.69	67.46	+	34.77	67.38	+	+d/+	+d/+			+	+	+	PA	PA	4	c
2016	2992	White cabbage/ carrot/salad/red bell pepper	+	29.95	67.04	+	+1/2	+M	+m/ +	+M	+Md/ -	+m d/+			+	+	PA	30.05	67.22	+	30.42	67.12	+	+m	+m			+	+	+	PA	PA	4	c
2016	2993	Pre-cooked carrots	+	21.98	67.33	+	+M	+M	+M	+M	+M	+M			+	+	PA	24.34	67.71	+	22.43	67.34	+	+M	+M			+	+	+	PA	PA	4	c
2016	2994	Pre-cooked potatoes	+	22.71	67.93	+	+p	+M	+m/ +	+p	+1/2	+M			+	+	PA	23.26	67.59	+	22.59	67.27	+	+p	+p			+	+	+	PA	PA	4	c
2016	2995	Chinese cabbage/ salad/tomato/ corn/ zucchini/radish/ parsley	+	32.95	67.16	+	-	+md /-	-	-	- x 2	- x 2	- x 2	+m x 2	+	+	PA	33.04	67.32	+	32.88	67.11	+	-	-	- (- at 24h)	- (- at 24h)	- (MSRV -X5)	-	-	PA FP(alt)	PA FP(alt)	4	c
2017	1499	Mix apple/grapes	+	30.69	65.93	+	+M	+M	+M	+M	+p	+p			+	+	PA	30.63	66.01	+	29.99	65.92	+	+M	+M	+p	+M	+	+	+	PA	PA	4	c
2017	1500	Pineapple pieces	+	24.21	66.05	+	+M	+M	+M	+M	+M	+M			+	+	PA	24.02	66.19	+	23.25	66.02	+	+M	+M	+p	+p	+	+	+	PA	PA	4	c
2017	1501	Mango pieces	+	20.51	65.93	+	+p	+p	+p	+p	+p	+p			+	+	PA	20.42	66.07	+	19.67	65.85	+	+p	+p	+p	+p	+	+	+	PA	PA	4	c
2017	1502	Carrots	-	0	0	-	+md/-	-	-	-			-	-	-	-	NA																4	c
2017	1503	Grated carrots	+	31.58	66.02	+	+1/2	+M/ +	+M	+M	+M	+M			+	+	PA	31.85	66.35	+	0/ 31.25/ 31.54	0/ 65.92/ 65.89	- /+ /+	+m/+	+M	+M	+M	+	+	-	PA	ND FN(alt)	4	c
2017	1594	Sliced zucchini	-	0	0	-	-	-	-	-			+md/ -	-	-	-	NA	0	0	-	0	0	-	+md/-	-	+md/-	-	-	-	-	NA	NA	4	c
2017	1595	Frozen spinach	-	0	0	-	-	-	-	-			-	-	-	-	NA	0	0	-	0	0	-	+md/-	-	-	-	-	-	-	NA	NA	4	c

Category 5: INGREDIENTS AND SPECIFIC PRODUCTS – Standard protocol – Extension No 2

INGREDIENTS AND SPECIFIC PRODUCTS – Standard protocol – Extension No 2																																		
Year of analysis	Sample N°	Product	ISO 6579♦ method	Alternative method: GENE-UP <i>Salmonella</i>																								Category	Type					
				BPW 18h 37°C														BPW 18h 37°C +72h at 5 ± 3°C																
				PCR			Confirmation								Final result	Agree ment	PCR-BPW 72h			PCR-Lysate 72h			Confirmation				Final result			Agreement				
							Direct streaking				Subculture SX2												Direct streaking		Subculture SX2							Confirmation final result		
				6h at 41.5°C ± 1.0°C		24h at 41.5°C ± 1.0°C					6h at 41.5°C ± 1.0°C																							
				Cp	Tm	Result	Typical colonies				Typical colonies						Confirmation final result																	
																		ChromID Salmonella	XLD	ASAP	RAPID® Salmonella	XLD	ASAP	XLD	ASAP									
XLD	ASAP	XLD	ASAP	XLD	ASAP	XLD	ASAP	XLD	ASAP	XLD	ASAP	XLD	ASAP	XLD												ASAP	XLD	ASAP	BPW	Lysate	BPW	Lysate		
2016	3071	Dried basil	-	0/0/0/0	0/0/0/0	i/i*/i**/-***	-	-	st	st	st	st	st	st	-	-		NA														5	a	
2016	3072	Dried herbs	-	0/0/0/0	0/0/0/0	i/i*/i**/-***	-	-	st	st	st	st	st	st	-	-	NA														5	a		
2016	3073	Paprika	+	0	0	-	-	-	-	-		-	-	-	-	-	ND	0	0	-	0	0	-	-	-			-	-	-	ND	ND	5	a
2016	3074	Turmeric	+	8.97/0/0	49.04/65.95/0	+/-+/-	-	-	-	-	-	-	-	(MSRV -)	-	PA FP(alt)	9.13/0/0	0/0/0	-/-/-	8.45	64.09	+	+md/-	-	- (24h)	- (24h)	(MSRV -)	-	-	ND	PA FP(alt)	5	a	
2016	3075	Curry	-	0	0	-	-	-	-	-		-	-	-	-	NA															5	a		
2016	3076	Dried thyme	+	0/0/38	0/0/66.01	i/i*/+**	+p	+p	+p	+p	+p	+p		+	+	PA	0/0*/38.02**	0/0*/66.1**	i/i*/+**	0/0*/31.87****	0/0*/66.27****	i/i*/+***	+p	+p		+	+	+	PA	PA	5	a		
2016	4265	Cocoa powder	-	0/0/0	0/0/0	i/i*/-**	st	st	st	st	st	st	st	st	-	-	NA															5	a	
2016	4266	Cocoa powder	-	0/0/0	0/0/0	i/i*/-**	st	st	st	st	st	st	st	st	-	-	NA															5	a	
2016	4267	Cocoa powder	+	0/0/0	0/0/0	i/i*/-**	st	st	st	st	st	st	st	st	-	-	ND	0/0*/0**	0/0*/0**	i/i*/-**	0/0*/0****	0/0*/0****	i/i*/-****	st	st		-	-	-	ND	ND	5	a	
2016	4268	Milk chocolate tablet	-	27.04	65.89	+	+p	+p	+p	+p	+p			+	+	PD	24.95	65.76	+	26.67	65.53	+	+p	+p			+	+	+	PD	PD	5	a	
2016	4269	Dark chocolate tablet	-	0	0	-	st	st	st	st			-	-	-	-	NA															5	a	
2016	4270	Cocoa bean	+	0	0	-	-	+m/-	-	-			st	st	-	-	ND	0	0	-	0/0*	0/0*	i/-*	-	-			-	-	-	ND	ND	5	a
2016	4694	Cocoa powder	-	(0/34.04/34.01)**	(0/66.08/66)**	i/i*/(-/+/-)**	+M	+p	+p	+p	+p	+p	+p	+	-	NA FN(alt)	0/0*/30.8**	0/0*/66.09**	i/i*/+**	0/0*/35.92****	0/0*/66.33****	i/i*/+***	+p	+p			+	+	+	PD	PD	5	a	
2016	4695	Cocoa powder	-	(32.99/36.12/0)**	(64.03/66.76/0)**	i/i*/(+/-)**	st	st	st	st	st	st	st	st	(MSRV -)	-	PD FP(alt)	0/0*/0**	0/0*/0**	i/i*/-**	9.55/0*/0****	0/0*/0****	i/i*/-****	st	st			-	-	-	NA	NA	5	a
2016	4696	Tarragon	-	0/35.24*/0**	0/65.66*/0**	i/+*/i**	+p	+p	+p	+p	+p	+p	+p	+	+	PD	0/34.55*/27.47**	0/66.17*/66.56**	i/+*/+**	0/32.98*	0/66.12*	i/+*	+p	+p			+	+	+	PD	PD	5	a	

• Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

INGREDIENTS AND SPECIFIC PRODUCTS – Standard protocol – Extension No 2																																	
Year of analysis	Sample N°	Product	ISO 6579* method	Alternative method: GENE-UP <i>Salmonella</i>																								Category	Type				
			Result	BPW 18h 37°C														BPW 18h 37°C +72h at 5 ± 3°C															
				PCR			Confirmation								Final result	Agree ment	PCR-BPW 72h			PCR-Lysate 72h			Confirmation				Final result			Agreement			
							Direct streaking				Subculture SX2		Confirmation final result	Direct streaking									Subculture SX2		Confirmation final result								
				6h at 41.5°C ± 1.0°C		24h at 41.5°C ± 1.0°C					6h at 41.5°C ± 1.0°C																						
				Cp	Tm	Result	Typical colonies				Typical colonies						Cp	Tm	Re sult	Cp	Tm	Result	Typical colonies			Typical colonies							
							ChromID Salmonella	XLD	ASAP	RAPID* Salmonella	XLD	ASAP		XLD									ASAP	XLD		ASAP							
2016	4697	Oregano	-	0/0*/0**/0***	0/0*/0**/0***	i/i*/i**/_***	-	-	-	st	st	st		st			-	-	NA														
2016	4698	Salsa spices	-	34.76/0/0	65.94/0/58.35	+/i/+	st	st	st	st	st	st	st	(MSRV -)	-	PD FP(alt)	34.75/33.75/33.16	65.96/65.82/65.81	+	0/32.88/33.18	64.64/65.8/65.32	+/+/+	st	st	st (24h)	st (24h)	(MSRV -)	-	-	PD FP(alt)	PD FP(alt)	5	a
2016	4699	Chinese spices	-	0	0	-	-	st	st	st			st	st	-	-	NA														5	a	
2016	4984	Black chocolate tablets	-	24.37	65.82	+	+p	+p	+p	+p	+p	+p		+	+	PD	24.53	65.56	+	0/0/22.61*	0/0/66.63*	i/i/+*	+p	+p			+	+	+	PD	PD	5	a
2016	4985	Black chocolate tablets	-	38.06	65.19	+	+p	+p	+p	+p	+p	+p		+	+	PD	29.1	65.78	+	0/34.54/23.46*	0/64.3/66.61*	i/+/*	+p	+p			+	+	+	PD	PD	5	a
2016	4986	Black chocolate tablets	+	34.76	65.51	+	+p	+p	+p	+p	+p	+p		+	+	PA	38.41	60.68	+	0/34.59/29.49*	0/60.82/66.01*	i/+/*	+p	+p			+	+	+	PA	PA	5	a
2016	5620	Tarragon	-	0/(0*)x3/(0**)x3	0/(0*)x3/(0**)x3	i/(-*)x3/(-**)x3	st	st	st	+p (4)	+p	+p	+p	+	-	NA FN(alt)	0/0*/0**	0/0*/0**	i/-*/-**	0/(0*)x3	0/(0*)x3	i/(-*)x3	+p (1)	+p (2)	+p (24h)	+p (24h)	+	-	-	NA FN(alt)	NA FN(alt)	5	a
2016	5621	Cocoa powder	-	0/8.03*/0	0/0*/0**	i/i*/-**	st	st	st	st	st	st	st	-	-	NA																5	a
2016	4381	Cereals with probiotics	+	22.18	66.31	+	+p	+p	+p	+p	+p	+p		+	+	PA	21.16	66.44	+	21.86	66.38	+	+p	+p			+	+	+	PA	PA	5	b
2016	4382	Cereals with probiotics	+	22.39	66.38	+	+p	+p	+p	+p	+p	+p		+	+	PA	21.18	66.41	+	21.91	66.5	+	+p	+p			+	+	+	PA	PA	5	b
2016	4383	Cereals with probiotics	+	21.96	66.09	+	+p	+p	+p	+p	+p	+p		+	+	PA	22.09	66.47	+	23.1	66.32	+	+p	+p			+	+	+	PA	PA	5	b
2016	4384	Cereals with probiotics	-	0/0/0	65.94/0/0	+/-/-	st	st	st	st	st	st	st	(MSRV -)	-	PD FP(alt)	0/0/0	66.62/66.41/66.43	-/-/-	33.14/33.12/32.46	66.27/65.9/66.21	+/+/+	st	st			(MSRV -)	-	-	NA	PD FP(alt)	5	b
2016	4385	Infant cereals with probiotics	-	0	0	-	st	st	st	st	st	st	st	-	-	NA	0	0	-	0	0	-	st	st	st (24h)	st (24h)	-	-	-	NA	NA	5	b
2016	4386	Cereals with probiotics	+	30.71	65.9	+	+p	+p	+p	+p	+p	+p		+	+	PA	29.96	65.94	+	30.65	66.09	+	+p (2)	st	+p (24h)	+p (24h)	+	+	+	PA	PA	5	b
2016	4387	Cereals with probiotics	+	32.26	65.75	+	+p	+p	+p	+p	+p	+p		+	+	PA	31.56	65.93	+	32.19	66.18	+	+p (1)	+p (1)	st (24h)	st (24h)	+	+	+	PA	PA	5	b
2016	4388	Infant formula with probiotics	-	0	0	-	st	st	st	st	st	st	st	-	-	NA																5	b
2016	4389	Infant formula with probiotics	-	0	0	-	st	st	st	st	st	st	st	-	-	NA																5	b

INGREDIENTS AND SPECIFIC PRODUCTS – Standard protocol – Extension No 2																																		
Year of analysis	Sample N°	Product	ISO 6579* method	Alternative method: GENE-UP <i>Salmonella</i>																								Category	Type					
			Result	BPW 18h 37°C														BPW 18h 37°C +72h at 5 ± 3°C																
				PCR			Confirmation								Final result	Agreement	PCR-BPW 72h			PCR-Lysate 72h			Confirmation				Final result			Agreement				
							Direct streaking				Subculture SX2												Confirmation final result											
				6h at 41.5°C ± 1.0°C		24h at 41.5°C ± 1.0°C					Direct streaking	Subculture SX2																						
				Typical colonies				Typical colonies				6h at 41.5°C ± 1.0°C																						
								Cp	Tm	Result		Typical colonies					Cp	Tm	Result	Typical colonies		BPW		Lysate	BPW	Lysate								
ChromID Salmonella	XLD	ASAP	RAPID Salmonella	XLD	ASAP	XLD	ASAP					XLD	ASAP																					
2016	4390	Infant formula with probiotics	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA													5	b			
2016	4391	Infant formula with probiotics	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA													5	b			
2016	4392	Infant formula with probiotics	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA													5	b			
2016	4393	Infant formula with probiotics	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA													5	b			
2016	4394	Infant formula with probiotics	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA													5	b			
2016	5622	Infant formula with probiotics	+	24.93	66.08	+	+p	+p	+p	+p	+p	+p			+	+	PA	25.71	66.55	+	23.88	66.25	+	+p	+p			+	+	+	PA	PA	5	b
2016	5623	Infant formula with probiotics	+	21.69	66.45	+	+p	+p	+p	+p	+p	+p			+	+	PA	21.15	66.2	+	20.9	66.52	+	+p	+p			+	+	+	PA	PA	5	b
2016	5624	Infant formula with probiotics	-	32.43	65.81	+	+p	+p	+p	+p	+p	+p			+	+	PD	30.93	66.1	+	31.9	66.19	+	st	st	-(24h)	-(24h)	- (MSR V -)	-	-	PD FP(alt)	PD FP(alt)	5	b
2016	5625	Infant formula with probiotics	+	31.23	66.01	+	+p	+p	+p	+p	+p	+p			+	+	PA	32.3	66.06	+	30.93	65.9	+	+p	+p			+	+	+	PA	PA	5	b
2016	5626	Infant formula with probiotics	+	0	66.29	+	+p	+p	+p	+p	+p	+p			+	+	PA	30.32	65.85	+	33.12	65.73	+	+p(2)	+p(1)			+	+	+	PA	PA	5	b
2016	5627	Infant formula with probiotics	+	20.9	66.45	+	+p	+p	+p	+p	+p	+p			+	+	PA	20.43	66.5	+	20.77	66.6	+	+p	+p			+	+	+	PA	PA	5	b
2016	5628	Infant formula with probiotics	+	0	0	-	st	st	st	st	st	st	st	st	-	-	ND	0	0	-	0	0	-	st	st			-	-	-	ND	ND	5	b
2016	4395	Whole egg powder	+	23.76	66.42	+	+p	+p	+p	+p	+p	+p			+	+	PA	24.03	66.39	+	23.66	66.15	+	+p	+p			+	+	+	PA	PA	5	c
2016	4396	White egg powder	+	25.41	66.35	+	+p	+p	+p	+p	+p	+p			+	+	PA	24.78	66.42	+	24.8	66.39	+	+p	+p			+	+	+	PA	PA	5	c
2016	4397	White egg powder	+	23.11	66.35	+	+p	+p	+p	+p	+p	+p			+	+	PA	0	65.92	+	23.27	66.37	+	+p	+p			+	+	+	PA	PA	5	c
2016	4398	Whole egg powder	-	0	0	-	st	st	st	st			st	st	-	-	NA														5	c		
2016	4399	Whole egg powder	-	0/ 32.63*	0/ 66.19*	-/+*	st	st	st	st	st	st	st	st	-	-	PD FP(alt)	24.82	66.1	+	0	0	-	st	st	st (24h)	st (24h)	- (MSR V -)	-	-	PD FP(alt)	PA	5	c
2016	4400	Whole egg powder	+	24.97	66.26	+	+p	+p	+p	+p	+p	+p			+	+	PA	24.5	66.28	+	23.93	66.16	+	+p	+p			+	+	+	PA	PA	5	c
2016	4401	Whole egg powder	+	24.32	66.18	+	+p	+p	+p	+p	+p	+p			+	+	PA	23.1	65.9	+	24.08	66.29	+	+p	+p			+	+	+	PA	PA	5	c
2016	4730	Pasteurized egg yolk	-	0	0	-	st	st	st	st			st	st	-	-	NA	0	0	-	0	0	-	st	st	st (24h)	st (24h)	-	-	-	NA	NA	5	c
2016	4731	Pasteurized egg yolk	+	29.76	65.87	+	+p	+p	+p	+p	+p	+p			+	+	PA	27.51	65.86	+	29.48	66.01	+	+p	+p			+	+	+	PA	PA	5	c
2016	4732	Pasteurized whole egg	-	0	0	-	st	st	st	st			st	st	-	-	NA	0	0	-	0	0	-	st	st	st (24h)	st (24h)	-	-	-	NA	NA	5	c
2016	4733	Pasteurized whole egg	+	25.18	66.01	+	+p	+p	+p	+p	+p	+p			+	+	PA	25.16	66.54	+	20.98	65.92	+	+p	+p			+	+	+	PA	PA	5	c

INGREDIENTS AND SPECIFIC PRODUCTS – Standard protocol – Extension No 2																																		
Year of analysis	Sample N°	Product	ISO 6579♦ method	Alternative method: GENE-UP <i>Salmonella</i>																										Category	Type			
			Result	BPW 18h 37°C														BPW 18h 37°C +72h at 5 ± 3°C																
				PCR			Confirmation								Final result	Agreement	PCR-BPW 72h			PCR-Lysate 72h			Confirmation				Final result		Agreement					
							Direct streaking				Subculture SX2		Confirmation final result	Direct streaking									Subculture SX2		Confirmation final result									
				6h at 41.5°C ± 1.0°C		24h at 41.5°C ± 1.0°C					6h at 41.5°C ± 1.0°C																							
				Cp	Tm	Result	Typical colonies				Typical colonies						Cp	Tm	Result	Cp	Tm	Result	Typical colonies			Typical colonies								
							ChromID Salmonella	XLD	ASAP	RAPID Salmonella	XLD	ASAP		XLD									ASAP	XLD		ASAP								
2016	4734	Pasteurized egg white	+	22.75	66.5	+	+p	+p	+p	+p	+p	+p	+p	+	+	PA	22.08	66.59	+	23.85	66.55	+	+p	+p			+	+	+	PA	PA	5	c	
2016	5212	Whole egg powder	-	34.61/36.73/0	65.69/66.51/0	+/-	st	st	st	st	st	st	st	- (MSRV -)	-	PD FP(alt)	34.72/0/34.36	65.75/0/66.73	+/-/+	0	0	-	st	st	st	st	- (MSRV -)	-	-	PD FP(alt)	NA	5	c	
2016	5213	Whole egg powder	-	0	0	-	st	st	st	st			st	st	-	-	NA																5	c
2016	5214	Egg yolk powder	-	0	0	-	st	st	st	st			st	st	-	-	NA																5	c
2016	5215	White egg powder	-	0	0	-	st	st	st	st			st	st	-	-	NA																5	c
2016	5221	Pasteurized egg yolk	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA	0	0	-	0	0	-	st	st			-	-	-	NA	NA	5	c
2016	5222	Pasteurized whole egg	-	0	0	-	st	st	st	st			st	st	-	-	NA																5	c
2016	5223	Pasteurized whole egg	-	0	0	-	st	st	st	st			st	st	-	-	NA																5	c
2016	5629	Sweet egg yolk pasteurized egg (50%)	+	30.42	66.14	+	+p	+p	+p	+p	+p	+p		+	+	PA	28.42	65.8	+	29.44	66.1	+	+p	+p			+	+	+	PA	PA	5	c	
2016	5630	Salted egg yolk pasteurized (10%)	+	30.72	65.78	+	+p	+p	+p	+p	+p	+p		+	+	PA	27.68	66.48	+	27.24	66.6	+	+p	+p			+	+	+	PA	PA	5	c	
2016	5631	Sweet egg yolk pasteurized egg (50%)	-	0	0	-	st	st	st	st			st	st	-	-	NA																5	c
2016	5632	Salted egg yolk pasteurized (10%)	-	0	0	-	st	st	st	st			st	st	-	-	NA																5	c
2017	1992	Pasteurized whole liquid egg	+	21.52	66.06	+	+p	+p	+p	+p	+p	+p		+	+	PA	21.17	65.72	+	21.25	35.99	+	+p	+p			+	+	+	PA	PA	5	c	

Category 5: INGREDIENTS AND SPECIFIC PRODUCTS – ISO protocol – Extension No 2

INGREDIENTS AND SPECIFIC PRODUCTS – ISO protocol – Extension No 2																																											
Year of analysis	Sample N°	Product	ISO 6579* method	Alternative method : GENE-UP <i>Salmonella</i>																						Category	Type																
			Result	BPW 18h 37°C												BPW 18h 37°C +72h 2-8°C																											
				PCR			Confirmation							Final result	Agree-ment	PCR-BPW 72h			PCR-Lysate 72h			Confirmation						Final result		Agreement													
							Direct streaking		Subculture SX2		Confirmation final result	Direct streaking										Subculture SX2		Confirmation final result	BPW							Lysate	BPW	Lysate									
				6h at 41.5°C ±1.0°C		6h at 41.5°C±1.0°C																																					
				Cp	Tm	Result	Typical colonies			Typical colonies						Confirmation final result	Cp	Tm	Result	Cp	Tm	Result	Typical colonies					Typical colonies		Confirmation final result	BPW				Lysate	BPW	Lysate						
ChromID Salmonella		XLD	ASAP							XLD		ASAP	XLD										ASAP			XLD	ASAP																
2016	3071	Dried basil	-	0/0*/0**	0/0*/0**	i/i*/-**	st	st	st	st			st	st	-								-	NA																		5	a
2016	3072	Dried herbs	-	0/0*/0**	0/0*/0**	i/i*/-**	st	st	st	st			st	st	-								-	NA																		5	a
2016	3073	Paprika	+	37.48	59.9	+	-	-	-	-	-	+	M	+M	+	+	PA	36.09	65.37	+	39.98	64.51	+	+md/+d	+md/+d			+	+	+	PA	PA	5	a									
2016	3074	Turmeric	+	34.48	65.42	+	-	-	-	-	-	-	-	+md/+	+	+	PA	35.35	65.35	+	35.22	65.28	+	-	+d/-	+m/+	+md/+	+	+	+	PA	PA	5	a									
2016	3075	Curry	-	0	0	-	-	-	-	-			st	st	-	-	NA														5	a											
2016	3076	Dried thyme	+	0/0*/39.32**	0/0*/61.2**	i/i*/+**	+p	+p	+p	+p	+p	+p			+	+	PA	0/0*/37.02**	0/0*/65.89**	i/i*/+**	0/0*/33.58***	0/0*/66.45***	i/i*/+****	+d	+d			+	+	+	PA	PA	5	a									
2016	4265	Cocoa powder	-	0/0*/0**	0/0*/0**	i/i*/-**	st	st	st	st			st	st	-	-	NA														5	a											
2016	4266	Cocoa powder	-	0/0*/0**	0/0*/0**	i/-*/-**	st	st	st	st			st	st	-	-	NA														5	a											
2016	4267	Cocoa powder	+	0/0*/27.64**	0/0*/66.19**	i/i*/+**	+p	+p	+p	+M	+p	+p			+	+	PA	0/40*/27.58**	0/61.24*/65.99**	i/+*/+**	0/0*/27.77***	0/0*/65.89***	i/i*/+****	+p	+p			+	+	+	PA	PA	5	a									
2016	4268	Milk chocolate tablet	-	0	0	-	st	st	st	st			st	st	-	-	NA	0	0	-	0	0	-	st	st			-	-	-	NA	NA	5	a									
2016	4269	Dark chocolate tablet	-	0	0	-	st	st	st	st			st	st	-	-	NA															5	a										
2016	4270	Cocoa bean	+	34.5	66.1	+	-	-	-	-	-	-	+	m	+	+	PA	34.61	65.84	+	35.23	65.75	+	-	+md/-	+m	+m	+	+	+	PA	PA	5	a									
2016	4694	Cocoa powder	-	(36.83/40/0)**	(66.49/64.07/0)**	i/i*/(+/-)**	st	st	st	st	st	st	st		+	(MSRV - /+ at 72h)	+	PD	0/0*/0**/0***	0/0*/0**/0***	i/-*/i**/-***	0/0*	0/0*	i/-*	+p	+p		+	(MSRV +)	-	-	NA FN(alt)	NA FN(alt)	5	a								
2016	4695	Cocoa powder	-	0/0*/0**	0/0*/0**	i/i*/-**	st	st	st	st			st	st	-	-	NA	0/0*/0**	0/0*/0**	i/i*/-**	0/0*	0/0*	i/-*	st	st			-	-	-	NA	NA	5	a									
2016	4696	Tarragon	-	(37.57/37.76/35.78)*/(0/33.96/35.12)**	(66.27/65.73/66.07)*/(63.81/66.18/64.11)**	i/+*/+**	st	st	st	st	st	st	st		-	(MSRV -)	-	PD FP(alt)	(35.39/34.81/35.8)**	(66.23/66.42/66.13)**	i/-*/+**	0/0*	0/0*	i/-*	st	st	st (24h)	st (24h)	- (MSRV -)	-	-	PD FP(alt)	NA	5	a								
2016	4697	Oregano	-	0/0*/0**/0***	0/0*/0**/0***	i/-*/i**/-***	st	st	st	st			st	st	-	-	NA															5	a										
2016	4698	Salsa spices	-	35.91/34.85/35.54	65.94/65.98/65.38	+/-/+	st	st	st	st	st	st	st		-	(MSRV -)	-	PD FP(alt)	40	65.82	+	34.58	65.69	+	st	st	st (24h)	st (24h)	- (MSRV -)	-	-	PD FP(alt)	PD FP(alt)	5	a								

* Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

INGREDIENTS AND SPECIFIC PRODUCTS – ISO protocol – Extension No 2																																		
Year of analysis	Sample N°	Product	ISO 6579* method	Alternative method : GENE-UP <i>Salmonella</i>																								Category	Type					
			Result	BPW 18h 37°C													BPW 18h 37°C +72h 2-8°C																	
				PCR			Confirmation								Final result	Agree-ment	PCR-BPW 72h			PCR-Lysate 72h			Confirmation				Final result			Agreement				
							Direct streaking		Subculture SX2				Confirmation final result										Direct streaking		Subculture SX2									
				Cp	Tm	Result			Typical colonies								Typical colonies				Cp	Tm	Result	Cp	Tm	Result	Typical colonies			Typical colonies				
ChromID Salmonella	XLD	ASAP	RAPID* Salmonella				XLD	ASAP	XLD	ASAP	XLD	ASAP	XLD	ASAP			XLD	ASAP	BPW	Lysate							BPW	Lysate						
2016	4699	Chinese spices	-	0	0	-	-	st	st	st	st			st	st	-	-	NA												5	a			
2016	4984	Black chocolate tablets	-	0	0	-	st	st	st	st			st	st	-	-	NA	0	0	-	0	0	-	st	st			-	-	-	NA	NA	5	a
2016	4985	Black chocolate tablets	-	0	0	-	st	st	st	st			st	st	-	-	NA	0	0	-	0	0	-	st	st			-	-	-	NA	NA	5	a
2016	4986	Black chocolate tablets	+	23.7	66.09	+	+p	+p	+p	+p	+p	+p	+p	+p	+	+	PA	23.14	65.59	+	23.61	65.72	+	+p	+p			+	+	+	PA	PA	5	a
2016	5620	Tarragon	-	0/ 0*/ 0**	0/ 0*/ 0**	i/-*/-**	st	st	st	st			st	st	-	-	NA															5	a	
2016	5621	Cocoa powder	-	0/ 0*/ 0**	0/ 0*/ 0**	i/-*/-**	st	st	st	st			st	st	-	-	NA															5	a	
2016	4381	Cereals with probiotics	+	27.96	65.95	+	+p	+p	+p	+p	+p	+p	+p	+p	+	+	PA	23.49	66.35	+	28.49	65.6	+	+p	+p			+	+	+	PA	PA	5	b
2016	4382	Cereals with probiotics	+	25.82	66.24	+	+p	+p	+p	+p	+p	+p	+p	+p	+	+	PA	23.46	66.29	+	25.72	65.66	+	+p	+p			+	+	+	PA	PA	5	b
2016	4383	Cereals with probiotics	+	27.49	66.2	+	+p	+p	+p	+p	+p	+p	+p	+p	+	+	PA	25.42	66.1	+	27.2	65.6	+	+p	+p			+	+	+	PA	PA	5	b
2016	4384	Cereals with probiotics	-	0/ 0/ 0	66/ 66.45/ 0	+/-+/-	st	st	st	st	+p	+p	+p	+p	+	+	PD	29	66.21	+	33.1	66.02	+	+p	+p			+	+	+	PD	PD	5	b
2016	4385	Cereals with probiotics	-	0/ 0/ 0	0/ 0/ 65.72	-/-/+	+p	+p	+p	+p	+p	+p	+p	+p	+	-	NA FN(alt)	0	66.09	+	33.67	65.95	+	+p (2)	+p (1)	+p	+p	+	+	+	PD	PD	5	b
2016	4386	Cereals with probiotics	+	30.03	65.05	+	+p	+p	+p	+p	+p	+p	+p	+p	+	+	PA	30.11	66.5	+	29.81	66.34	+	+p	+p			+	+	+	PA	PA	5	b
2016	4387	Infant cereals with probiotics	+	31.76	65.65	+	+1/2	+p	+p	+p	+p	+p	+p	+p	+	+	PA	32.31	65.82	+	32.07	65.9	+	st	st	st (24h)	st (24h)	- (MSRV -)	-	-	PA FP(alt)	PA FP(alt)	5	b
2016	4388	Infant formula with probiotics	-	0	0	-	st	st	st	st			st	st	-	-	NA															5	b	
2016	4389	Infant formula with probiotics	-	0	0	-	st	st	st	st			st	st	-	-	NA															5	b	
2016	4390	Infant formula with probiotics	-	0	0	-	st	st	st	st			st	st	-	-	NA															5	b	
2016	4391	Infant formula with probiotics	-	0	0	-	st	st	st	st			st	st	-	-	NA															5	b	
2016	4392	Infant formula with probiotics	-	0	0	-	st	st	st	st			st	st	-	-	NA															5	b	
2016	4393	Infant formula with probiotics	-	0	0	-	st	st	st	st			st	st	-	-	NA															5	b	
2016	4394	Infant formula with probiotics	-	0	0	-	st	st	st	st			st	st	-	-	NA															5	b	

INGREDIENTS AND SPECIFIC PRODUCTS – ISO protocol – Extension No 2																																		
Year of analysis	Sample N°	Product	ISO 6579* method	Alternative method : GENE-UP <i>Salmonella</i>																								Category	Type					
			Result	BPW 18h 37°C												BPW 18h 37°C +72h 2-8°C																		
				PCR			Confirmation						Confirmation final result	Final result	Agree-ment	PCR-BPW 72h			PCR-Lysate 72h			Confirmation				Final result				Agreement				
							Direct streaking		Subculture SX2													Direct streaking		Subculture SX2								Confirmation final result		
				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C			6h at 41.5°C±1.0°C																									
								Cp			Tm	Result				Typical colonies			Typical colonies			Cp	Tm	Result	Cp	Tm	Result			Typical colonies			Typical colonies	
ChromID Salmonella	XLD	ASAP	RAPID' Salmonella	XLD	ASAP	XLD	ASAP		XLD	ASAP						XLD	ASAP	BPW	Lysate	BPW	Lysate													
2016	5622	Infant formula with probiotics	+	24.63	66.22	+	+p	+p	+p	+p	+p	+p	+p	+	+	PA	23.02	66.32	+	24.68	66.29	+	+p	+p			+	+	+	PA	PA	5	b	
2016	5623	Infant formula with probiotics	+	21.91	66.29	+	+p	+p	+p	+p	+p	+p	+p	+	+	PA	20.72	66.43	+	21.32	66.24	+	+p	+p			+	+	+	PA	PA	5	b	
2016	5624	Infant formula with probiotics	-	0	0	-	st	st	st	st			st	st	-	-	NA															5	b	
2016	5625	Infant formula with probiotics	+	29.87	65.71	+	+p	+p	+p	+p	+p	+p	+p	+	+	PA	26.77	66.09	+	29.78	65.63	+	+p	+p			+	+	+	PA	PA	5	b	
2016	5626	Infant formula with probiotics	+	23.44	66.04	+	+p	+p	+p	+p	+p	+p	+p	+	+	PA	21.5	66.6	+	23.61	66.2	+	+p	+p			+	+	+	PA	PA	5	b	
2016	5627	Infant formula with probiotics	+	28	62.94	+	+p	+p	+p	+p	+p	+p	+p	+	+	PA	26.76	66.22	+	31.37	63.83	+	+p	+p			+	+	+	PA	PA	5	b	
2016	5628	Infant formula with probiotics	+	30.42	66.14	+	+p	+p	+p	+p	+p	+p	+p	+	+	PA	28.62	65.77	+	29.79	65.96	+	+p	+p			+	+	+	PA	PA	5	b	
2016	4734	Pasteurized egg white	+	22.75	66.5	+	+p	+p	+p	+p	+p	+p	+p	+	+	PA	22.08	66.59	+	23.85	66.55	+	+p	+p			+	+	+	PA	PA	5	c	
2016	4395	Whole egg powder	+	23.76	66.42	+	+p	+p	+p	+p	+p	+p		+	+	PA	24.03	66.39	+	23.66	66.15	+	+p	+p			+	+	+	PA	PA	5	c	
2016	4396	White egg powder	+	25.41	66.35	+	+p	+p	+p	+p	+p	+p		+	+	PA	24.78	66.42	+	24.8	66.39	+	+p	+p			+	+	+	PA	PA	5	c	
2016	4397	White egg powder	+	23.11	66.35	+	+p	+p	+p	+p	+p	+p		+	+	PA	0	65.92	+	23.27	66.37	+	+p	+p			+	+	+	PA	PA	5	c	
2016	4398	Whole egg powder	-	0	0	-	st	st	st	st			st	st	-	-	NA															5	c	
2016	4399	Whole egg powder	-	0/32.63*	0/66.19*	-/+*	st	st	st	st	st	st	st	-	-	NA	24.82	66.1	+	0	0	-	st	st	st (24h)	st (24h)	- (MSRV -)	-	-	PD FP(alt)	NA	5	c	
2016	4400	Whole egg powder	+	24.97	66.26	+	+p	+p	+p	+p	+p	+p		+	+	PA	24.5	66.28	+	23.93	66.16	+	+p	+p			+	+	+	PA	PA	5	c	
2016	4401	Whole egg powder	+	24.32	66.18	+	+p	+p	+p	+p	+p	+p		+	+	PA	23.1	65.9	+	24.08	66.29	+	+p	+p			+	+	+	PA	PA	5	c	
2016	4730	Pasteurized egg yolk	-	0	0	-	st	st	st	st			st	st	-	-	NA	0	0	-	0	0	-	st	st	st (24h)	st (24h)	-	-	-	NA	NA	5	c
2016	4731	Pasteurized egg yolk	+	29.76	65.87	+	+p	+p	+p	+p	+p	+p		+	+	PA	27.51	65.86	+	29.48	66.01	+	+p	+p			+	+	+	PA	PA	5	c	
2016	4732	Pasteurized whole egg	-	0	0	-	st	st	st	st			st	st	-	-	NA	0	0	-	0	0	-	st	st	st (24h)	st (24h)	-	-	-	NA	NA	5	c
2016	4733	Pasteurized whole egg	+	25.18	66.01	+	+p	+p	+p	+p	+p	+p		+	+	PA	25.16	66.54	+	20.98	65.92	+	+p	+p			+	+	+	PA	PA	5	c	
2016	5212	Whole egg powder	-	34.61/ 36.73/ 0	65.69/ 66.51/ 0	+/-/-	st	st	st	st	st	st	st	- (MSRV -)	-	PD FP(alt)	34.72/ 0/ 34.36	65.75/ 0/ 66.73	+/-/+	0	0	-	st	st	st	st	- (MSRV -)	-	-	PD FP(alt)	NA	5	c	
2016	5213	Whole egg powder	-	0	0	-	st	st	st	st			st	st	-	-	NA															5	c	
2016	5214	Egg yolk powder	-	0	0	-	st	st	st	st			st	st	-	-	NA															5	c	
2016	5215	White egg powder	-	0	0	-	st	st	st	st			st	st	-	-	NA															5	c	
2016	5221	Pasteurized egg yolk	-	0	0	-	st	st	st	st	st	st	st	-	-	NA	0	0	-	0	0	-	st	st			-	-	-	NA	NA	5	c	
2016	5222	Pasteurized whole egg	-	0	0	-	st	st	st	st			st	st	-	-	NA															5	c	
2016	5223	Pasteurized whole egg	-	0	0	-	st	st	st	st			st	st	-	-	NA															5	c	
2016	5629	Sweet egg yolk pasteurized egg (50%)	+	30.42	66.14	+	+p	+p	+p	+p	+p	+p		+	+	PA	28.42	65.8	+	29.44	66.1	+	+p	+p			+	+	+	PA	PA	5	c	

INGREDIENTS AND SPECIFIC PRODUCTS – ISO protocol – Extension No 2																																	
Year of analysis	Sample N°	Product	ISO 6579* method	Alternative method : GENE-UP <i>Salmonella</i>																								Category	Type				
			Result	BPW 18h 37°C												BPW 18h 37°C +72h 2-8°C																	
				PCR			Confirmation								Final result	Agree-ment	PCR-BPW 72h			PCR-Lysate 72h			Confirmation				Final result			Agreement			
							Direct streaking			Subculture SX2		Confirmation final result	Direct streaking										Subculture SX2		Confirmation final result								
				Cp	Tm	Result				Typical colonies			Typical colonies				Cp	Tm	Result	Cp	Tm	Result	Direct streaking			6h at 41.5°C±1.0°C				Confirmation final result	BPW	Lysate	BPW
							Typical colonies		Typical colonies														Typical colonies			Typical colonies							
ChromID Salmonella	XLD	ASAP	RAPID' Salmonella				XLD	ASAP	XLD	ASAP	Cp		Tm	Result									Cp	Tm		Result	XLD	ASAP	XLD				
2016	5630	Salted egg yolk pasteurized (10%)	+	30.72	65.78	+	+p	+p	+p	+p	+p			+	+	PA	27.68	66.48	+	27.24	66.6	+	+p	+p			+	+	+	PA	PA	5	c
2016	5631	Sweet egg yolk pasteurized egg (50%)	-	0	0	-	st	st	st	st			st	st	-	-	NA															5	c
2016	5632	Salted egg yolk pasteurized (10%)	-	0	0	-	st	st	st	st			st	st	-	-	NA															5	c
2017	1992	Pasteurized whole liquid egg	+	21.52	66.06	+	+p	+p	+p	+p	+p			+	+	PA	21.17	65.72	+	21.25	35.99	+	+p	+p			+	+	+	PA	PA	5	c

Category 6: PET FOOD (25 g test portion) – Standard protocol – Extension No 4

PET FOOD (25 g test portion) – Standard protocol – Extension No 4																																								
Year of analysis	Sample N°	Product	ISO 6579* method	Alternative method: GENE-UP <i>Salmonella</i>																												Category	Type							
			Result	BPW 18h 37°C														BPW 18h 37°C +72h at 5 ± 3°C																						
				PCR			Confirmation								Final result	Agreement	PCR-BPW 72h			PCR-Lysate 72h			Confirmation				Final result		Agreement											
							Direct streaking				Subculture SX2												Confirmation final result		Direct streaking						Subculture SX2									
				6h at 41.5°C ± 1.0°C		24h at 41.5°C ± 1.0°C					6h at 41.5°C ± 1.0°C																													
				Cp	Tm	Result	Typical colonies				Typical colonies												Cp	Tm	Result	Typical colonies					Typical colonies			Confirmation final result	BPW	Lysate	BPW	Lysate		
							ChromID Salmonella	XLD	ASAP	RAPID [®] Salmonella	XLD	ASAP	XLD	ASAP												XLD					ASAP								XLD	ASAP
2016	6458	Sausage for dog	+	22.56	66.63	+	+p	+p	+p	+p	+p	+p					+	+	PA	21.92	66.94	+	21.77	66.15	+	+p			+M			+	+	+	PA	PA	6	a		
2016	6459	Sausage for dog	+	21.05	66.77	+	+p	+p	+p	+p	+p	+p			+	+	PA	21.28	66.18	+	20.86	66.16	+	+M	+M			+	+	+	PA	PA	6	a						
2016	6460	Pâté for dog (poultry/carrots)	+	21.68	66.33	+	+p	+p	+p	+p	+p	+p			+	+	PA	21.81	65.99	+	21.28	65.95	+	+p	+p			+	+	+	PA	PA	6	a						
2016	6461	Pâté for dog (fish/carrots)	+	23.94	66.63	+	+p	+p	+p	+p	+p	+p			+	+	PA	21.57	66.5	+	22.82	66.03	+	+p	+p			+	+	+	PA	PA	6	a						
2016	6462	Pâté for cat (beef)	+	22.55	66.47	+	+p	+p	+p	+p	+p	+p			+	+	PA	21.92	65.94	+	24.18	66.03	+	+p	+p			+	+	+	PA	PA	6	a						
2016	6463	Pâté for cat (salmon)	+	22.78	66.48	+	+p	+p	+p	+p	+p	+p			+	+	PA	22.31	66.04	+	23.8	65.93	+	+p	+p			+	+	+	PA	PA	6	a						
2017	7	Pâté for cat	-	0	0	-	st	st	st	st			st	st	-	-	NA																6	a						
2017	8	Pâté for cat	-	0	0	-	st	st	st	st			st	st	-	-	NA																6	a						
2017	9	Pâté for dog	-	0	0	-	st	st	st	st			st	st	-	-	NA																6	a						
2017	12	Sausage for dog	-	0	0	-	st	st	st	st			st	st	-	-	NA																6	a						
2017	13	Sausage for dog	-	0	0	-	st	st	st	st			st	st	-	-	NA																6	a						
2017	14	Sausage for dog	-	0/ 32,03/ 0	66,22/ 65,8/ 0	+/-	st	st	st	st	st	st	st	- (5 MSRV -)	-	PD FP(alt)	0/0/0	66,34/ 0/ 0	+/- /-	0	0	-	st	st			-	-	-	NA	NA	6	a							
2017	8575	Sausage for dog	+	20.63	56.68	+	+p	+p	+p	+p	+p	+p			+	+	PA	20.2	57.03	+	20.34	56.68	+	+p	+p			+	+	+	PA	PA	6	a						
2017	8576	Sausage for dog	+	23.06	66.15	+	+p	+p	+p	+p	+p	+p			+	+	PA	20.82	66.25	+	22.16	66.42	+	+p	+p			+	+	+	PA	PA	6	a						
2017	8577	Sausage for dog	+	20.74	66.25	+	+p	+p	+p	+p	+p	+p			+	+	PA	20.03	66.22	+	19.75	66.42	+	+p	+p			+	+	+	PA	PA	6	a						
2017	8578	Pâté for dog (beef)	+	22.01	56.7	+	+p	+p	+p	+p	+p	+p			+	+	PA	21.64	56.87	+	21.45	56.61	+	+p	+p			+	+	+	PA	PA	6	a						
2017	8579	Pâté for cat (beef)	+	21.55	66.23	+	+p	+p	+p	+p	+p	+p			+	+	PA	20.78	66.19	+	20.46	66.14	+	+p	+p			+	+	+	PA	PA	6	a						
2017	8580	Pâté for cat (chicken)	+	21.49	66.3	+	+p	+p	+p	+p	+p	+p			+	+	PA	20.46	66.1	+	20.45	66.04	+	+p	+p			+	+	+	PA	PA	6	a						
2017	8581	Pâté for cat (salmon)	+	21.95	56.61	+	+p	+p	+p	+p	+p	+p			+	+	PA	20.8	56.67	+	20.76	56.69	+	+p	+p			+	+	+	PA	PA	6	a						
2017	8582	Pâté for dog (duck/vegetables)	+	23.19	66.52	+	+p	+p	+p	+p	+p	+p			+	+	PA	21.22	67.05	+	20.61	66.6	+	+p	+p			+	+	+	PA	PA	6	a						
2017	8583	Pâté for dog (beef/carrots)	+	20.79	66.23	+	+p	+p	+p	+p	+p	+p			+	+	PA	20.73	66.49	+	20.57	66.03	+	+p	+p			+	+	+	PA	PA	6	a						
2017	8584	Pâté for dog (poultry)	+	20.82	56.59	+	+p	+p	+p	+p	+p	+p			+	+	PA	20.61	56.91	+	20.9	56.58	+	+p	+p			+	+	+	PA	PA	6	a						
2017	9584	Pâté for dog (beef)	-	0	0	-	st	st	st	st			st	st	-	-	NA																6	a						
2017	9585	Pâté for dog (beef/vegetables)	-	0	0	-	st	st	st	st			st	st	-	-	NA																6	a						
2017	9586	Pâté for dog (lamb/vegetables)	-	0	0	-	st	st	st	st			st	st	-	-	NA																6	a						
2017	9587	Pâté for dog poultry/liver/vegetables)	-	0	0	-	st	st	st	st			st	st	-	-	NA																6	a						
2017	9588	Pâté for dog (poultry)	-	0	0	-	-	st	st	st			st	st	-	-	NA																6	a						

* Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

PET FOOD (25 g test portion) – Standard protocol – Extension No 4																																		
Year of analysis	Sample N°	Product	ISO 6579* method	Alternative method: GENE-UP <i>Salmonella</i>																								Category	Type					
			Result	BPW 18h 37°C														BPW 18h 37°C +72h at 5 ± 3°C																
				PCR			Confirmation										Final result	Agreement	PCR-BPW 72h			PCR-Lysate 72h			Confirmation					Final result		Agreement		
							Direct streaking				Subculture SX2				Confirmation final result																			
				6h at 41.5°C ± 1.0°C		24h at 41.5°C ± 1.0°C					Direct streaking		Subculture SX2																					
				Cp	Tm	Result	Typical colonies				Typical colonies					Cp			Tm	Result	Cp	Tm	Result	Typical colonies		Typical colonies				BPW	Lysate	BPW	Lysate	
							ChromID Salmonella	XLD	ASAP	RAPID Salmonella	XLD	ASAP	XLD	ASAP										XLD	ASAP	XLD	ASAP							
2017	9589	Pâté for cat (salmon/trout)	-	0	0	-	st	st	st	st			st	st		-			-	NA														6
2017	9590	Pâté for cat (rabbit/liver/vegetables)	-	0	0	-	st	st	st	st			st	st	-	-	NA														6	a		
2017	9591	Pâté for cat (poultry/kidney)	-	0	0	-	st	st	st	st			st	st	-	-	NA														6	a		
2017	9592	Sausage for dog	-	0	0	-	st	st	st	st			st	st	-	-	NA														6	a		
2017	9593	Sausage for dog	-	0	0	-	st	st	st	st			st	st	-	-	NA														6	a		
2017	9594	Sausage for dog	-	0	0	-	st	st	st	st			st	st	-	-	NA														6	a		
2016	6419	Pellets for dog (beef/vegetables)	+	22.19	66.41	+	+M	+M	+M	+M	+M	+M			+	+	PA	23.07	66.61	+	22.55	66.64	+	+M	+M			+	+	+	PA	PA	6	b
2016	6420	Pellets for dog (beef)	-	0	0	-	-	-	-	-			-	-	-	-	NA														6	b		
2016	6421	Pellets for dog (beef)	+	28.92	65.86	+	-	-	+m/+	+m	+m	+m			+	+	PA	25.28	66.41	+	29.13	65.94	+	+m	+m			+	+	+	PA	PA	6	b
2016	6422	Pellets for cat (rabbit/ poultry/ vegetables/ cereals)	+	22.76	66.44	+	+1/2	+M	+1/2	+M	+M	+M			+	+	PA	22.97	66.61	+	23.44	66.61	+	+1/2	+1/2			+	+	+	PA	PA	6	b
2016	6423	Pellets for cat (salmon / tuna / vegetables)	+	29.62	65.78	+	-	+m/+	+m/+	+m/+	+M	+M			+	+	PA	26.07	66.33	+	29.15	65.86	+	+m	+m			+	+	+	PA	PA	6	b
2016	6424	Pellets for cat (liver)	+	24.4	65.98	+	+m	+1/2	+m	+M	+M	+M			+	+	PA	24.01	66.41	+	24.69	66.45	+	+M	+1/2			+	+	+	PA	PA	6	b
2017	10	Pellets for dog	-	0	0	-	st	st	st	st			st	st	-	-	NA														6	b		
2017	11	Pellets for cat	-	0	0	-	st	st	st	st			st	st	-	-	NA														6	b		
2017	8514	Bird food	-	0	0	-	-	-	-	-	-	-	-	-	-	-	NA														6	b		
2017	8515	Rodent food	-	0	0	-	-	-	-	-	-	-	-	-	-	-	NA														6	b		
2017	8516	Rabbit food	-	0	0	-	-	st	st	st	st	st	st	st	-	-	NA														6	b		
2017	8517	Guinea pig food	-	0	0	-	-	-	-	-	-	-	-	-	-	-	NA														6	b		
2017	8518	Pellets for dog	-	0	0	-	-	-	-	-	-	-	-	-	-	-	NA														6	b		
2017	8519	Pellets for dog	-	0	0	-	-	-	-	-	-	-	-	-	-	-	NA														6	b		
2017	8520	Pellets for dog (poultry/ cereals/ vegetables)	-	0	0	-	-	-	-	-	-	-	-	-	-	-	NA														6	b		
2017	8521	Pellets for dog	-	0	0	-	-	-	-	st	st	-	st	-	-	-	NA														6	b		
2017	8522	Pellets for cat (beef/ poultry/ vegetables)	-	0	0	-	-	-	-	-	st	-	st	-	-	-	NA														6	b		
2017	8523	Pellets for cat (tuna/ salmon/ cereals/ vegetables)	-	0	0	-	-	-	-	-	-	-	-	-	-	-	NA														6	b		
2017	8524	Pellets for cat (beef/ poultry/ vegetables)	-	0	0	-	-	-	-	-	st	st	st	st	-	-	NA														6	b		
2017	9107	Rodent food	+	26.78	66.41	+	+M	+M	+M	+M	+M	+M			+	+	PA	27.16	66.27	+	26.2	66.06	+	+M	+M			+	+	+	PA	PA	6	b

PET FOOD (25 g test portion) – Standard protocol – Extension No 4																																												
Year of analysis	Sample N°	Product	ISO 6579♦ method	Alternative method: GENE-UP <i>Salmonella</i>																										Category	Type													
			Result	BPW 18h 37°C													BPW 18h 37°C +72h at 5 ± 3°C																											
				PCR			Confirmation								Final result	Agree ment	PCR-BPW 72h			PCR-Lysate 72h			Confirmation					Final result				Agreement												
							Direct streaking				Subculture SX2												Confirmation final result	Direct streaking		Subculture SX2								Confirmation final result										
				6h at 41.5°C ± 1.0°C		24h at 41.5°C ± 1.0°C					6h at 41.5°C ± 1.0°C																																	
				Cp	Tm	Result	Typical colonies				Typical colonies						Cp	Tm	Re sult	Cp	Tm	Result		Typical colonies		Typical colonies		BPW	Lysate			BPW	Lysate											
											Typical colonies		Typical colonies													Typical colonies																		
ChromID Salmonella	XLD	ASAP	RAPID' Salmonella	XLD	ASAP	XLD	ASAP	XLD	ASAP	XLD	ASAP	XLD	ASAP																															
2017	9108	Bird food	+	25.97	66.46	+	+m	+M	+M	+M	+M	+M			+	+							PA	25.78	66.07	+	25.6			66	+			+M	+M			+	+	+	PA	PA	6	b
2017	9109	Guinea pig food	+	30.22	65.88	+	+M	+M	+M	+M	+M	+M			+	+							PA	30.05	66.16	+	29.77			66.04	+			+M	+M			+	+	+	PA	PA	6	b
2017	9110	Guinea pig food	-	0	0	-	-	-	-	-			st	st	-	-	NA																6	b										
2017	9111	Pellets for cat (beef/ poultry/ vegetables)	+	22.67	66.25	+	+M	+M	+M	+M	+M	+M			+	+	PA	21.78	66.34	+	21.85	66.25	+	+M	+M			+	+	+	PA	PA	6	b										
2017	9112	Pellets for cat (chicken/ duck/vegetables)	+	23.51	66.05	+	+M	+M	+M	+M	+M	+M			+	+	PA	22.16	65.99	+	22.55	65.81	+	+M	+M			+	+	+	PA	PA	6	b										
2017	9113	Pellets for cat (beef/poultry/fish)	-	0	0	-	-	-	st	st			st	st	-	-	NA																6	b										
2017	9114	Pellets for dog (beef)	+	22.04	66.36	+	+M	+M	+M	+M	+M	+M			+	+	PA	21.34	66.43	+	21.05	66.19	+	+M	+M			+	+	+	PA	PA	6	b										
2017	9115	Pellets for cat (beef/poultry/vegetabl es)	+	23.59	66.02	+	+m	+M	+M	+M	+M	+M			+	+	PA	22.1	66.1	+	21.91	65.88	+	+M	+M			+	+	+	PA	PA	6	b										
2017	9116	Pellets for dog (poultry/vegetables)	-	0	0	-	-	-	-	-			st	st	-	-	NA																6	b										
2017	9117	Pellets for cat (tuna/ salmon/ cereals/ vegetables)	+	22.08	66.41	+	+M	+M	+M	+M	+M	+M			+	+	PA	21.73	66.5	+	21.27	66.54	+	+M	+M			+	+	+	PA	PA	6	b										
2017	9624	Pellets for cat (tuna, salmon, cereals, vegetables)	+	20.43	66.65	+	+p	+p	+p	+p	+p	+p			+	+	PA	20.79	66.43	+	19.79	65.81	+	+p	+p			+	+	+	PA	PA	6	b										
2017	9625	Pellets for dog (beef)	+	20.42	66.62	+	+p	+p	+p	+p	+p	+p			+	+	PA	20.56	66.23	+	20.53	66.37	+	+p	+p			+	+	+	PA	PA	6	b										

Category 7: PRODUCTION ENVIRONMENTAL SAMPLES (25 g or sampling device) – Standard protocol – Extension No 2

PRODUCTION ENVIRONMENTAL SAMPLES – Standard protocol – Extension No 2																																									
Year of analysis	Sample N°	Product	ISO 6579♦ method	Alternative method: GENE-UP <i>Salmonella</i>																								Category	Type												
			Result	BPW 18h 37°C												BPW 18h 37°C +72h at 5 ± 3°C																									
				PCR			Confirmation								Final result	Agree ment	PCR-BPW 72h			PCR-Lysate 72h			Confirmation				Final result			Agreement											
							Direct streaking				Subculture SX2												Direct streaking		Subculture SX2							Confirmation final result									
				6h at 41.5°C ± 1.0°C		24h at 41.5°C ± 1.0°C					6h at 41.5°C ± 1.0°C																														
				Cp	Tm	Result	Typical colonies				Typical colonies						Confirmation final result	Cp	Tm	Re sult	Cp	Tm	Result	Typical colonies		Typical colonies															
																														ChromID Salmonella	XLD		ASAP	RAPID' Salmonella	XLD	ASAP	XLD	ASAP	XLD	ASAP	
2016	7349	Residues (swine industry)	-	0	0	-	st	st	st	st			st	st	-	-								NA																7	a
2016	7572	Residues (vegetables industry)	+	24.91	66.53	+	+M	+M	+M	+M	+M	+M			+	+								PA	24.95	66.14	+	24.79	66.16	+	+M	+M			+	+	+	PA	PA	7	a
2016	7573	Residues (vegetables industry)	+	23.87	66.44	+	+M	+M	+M	+M	+M	+M			+	+								PA	23.94	66.52	+	24.01	66.09	+	+M	+M			+	+	+	PA	PA	7	a
2016	7578	Residues (fish industry)	+	33.75	65.9	+	-	-	-	+m/+	+m/+	+m/+			+	+	PA	33.47	66.04	+	33.98	65.94	+	-	+m/+			+	+	+	PA	PA	7	a							
2016	7579	Residues (fish industry)	+	26.28	65.93	+	+p	+p	+M	+p	+M	+M			+	+	PA	26.06	66.06	+	23.8	66.12	+	+p	+p			+	+	+	PA	PA	7	a							
2016	7580	Residues (fish industry)	+	0/0/0	0/0/0	-/-/-	-	-	-	-			+m	+m	+	-	ND FN(alt)	0	0	-	0	0	-	-	-			-	-	-	ND	ND	7	a							
2016	7581	Residues (fish industry)	-	0	0	-	-	-	-	-			-	-	-	-	NA																7	a							
2016	7582	Residues (fish industry)	+	21.83	66.21	+	+p	+p	+p	+p	+p	+p			+	+	PA	23.05	66.1	+	22.8	66.66	+	+M	+M			+	+	+	PA	PA	7	a							
2016	7667	Dust from dairy industry	+	35.24	65.78	+	+p	+p	+M	+p	+p	+p			+	+	PA	34.84	65.91	+	34.85	66.1	+	st	+(6)			+	+	+	PA	PA	7	a							
2016	7668	Dust from dairy industry	+	32.16	65.69	+	+p	+p	+p	+p	+p	+p			+	+	PA	31.32	65.54	+	32.57	65.67	+	+p	+p			+	+	+	PA	PA	7	a							
2016	7669	Dust from dairy industry	+	30.94	65.12	+	+M	+p	+M	+M	+p	+p			+	+	PA	30.71	65.53	+	31.63	65.43	+	+p	+p			+	+	+	PA	PA	7	a							
2016	7670	Dust from dairy industry	+	35.11	65.91	+	+p	+p	+M	+p	+p	+p			+	+	PA	34.7	65.72	+	0/0/35,27	0/0/65,96	-/-/+	st	+(8)			+	+	-	PA	ND FN(alt)	7	a							
2016	7777	Residues (delicatessen industry)	-	0	0	-	-	-	+m d	-			-	st	-	-	NA																7	a							
2016	7780	Residues (delicatessen industry)	-	0	0	-	-	-	-	-			-	-	-	-	NA																7	a							
2016	7963	Residues (vegetables industry)	-	0	0	-	-	+m/-	-	-			-	-	-	-	NA																7	a							
2016	7964	Residues (delicatessen industry)	-	0	0	-	-	-	-	-			-	-	-	-	NA																7	a							

* Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

PRODUCTION ENVIRONMENTAL SAMPLES – Standard protocol – Extension No 2																																		
Year of analysis	Sample N°	Product	ISO 6579♦ method	Alternative method: GENE-UP <i>Salmonella</i>																								Category	Type					
			Result	BPW 18h 37°C													BPW 18h 37°C +72h at 5 ± 3°C																	
				PCR			Confirmation								Final result	Agree- ment	PCR-BPW 72h			PCR-Lysate 72h			Confirmation				Final result			Agreement				
							Direct streaking				Subculture SX2												Direct streaking		Subculture SX2							Confirmation final result		
				6h at 41.5°C ± 1.0°C		24h at 41.5°C ± 1.0°C					6h at 41.5°C ± 1.0°C																							
				Cp	Tm	Result	Typical colonies				Typical colonies						Cp	Tm	Re- sult	Cp	Tm	Result	Typical colonies		Typical colonies									
							ChromID Salmonella	XLD	ASAP	RAPID [®] Salmonella	XLD	ASAP	XLD	ASAP									XLD	ASAP										
2016	7965	Residues (delicatessen industry)	-	0	0	-	st	st	st	st			st	st			-	-	NA														7	a
2016	7966	Residues (delicatessen industry)	-	0	0	-	-	-	-	-			-	-	-	-	NA															7	a	
2016	7967	Residues (Beef meat)	-	0	0	-	-	-	-	-			-	-	-	-	NA															7	a	
2016	7968	Residues (Beef meat)	-	0	0	-	-	-	-	-			st	st	-	-	NA																7	a
2016	2404	Porcine environment	+	25.71	67.39	+	2+/-	+m	+m/+	+m/+	+M	+M			+	+	PA	26.84	67.49	+	26.14	67.18	+	+m	+m	+m	+m	+	+	+	PA	PA	7	b
2016	2405	Porcine environment	-	0	0	-	-	+md/-	-	-			-	-	-	-	NA	0	0	-	0	0	-	+md/-	-	+md/-	-	-	-	-	NA	NA	7	b
2016	2406	Porcine environment	-	0	0	-	-	-	st	st			-	-	-	-	NA																7	b
2016	2407	Porcine environment	-	0	0	-	-	+md/+d	-	-			-	-	-	-	NA																7	b
2016	2408	Porcine environment	-	0	0	-	-	+md/+d	-	-			-	-	-	-	NA																7	b
2016	2409	Porcine environment	-	0	0	-	st	st	st	st			st	st	-	-	NA																7	b
2016	7350	Process water (swine industry)	+	34.46	66.04	+	-	+m/+	+m/-	-	-	-	+m/+	+md/+	+	+	PA	35.71	65.75	+	35.97	66.11	+	+md/-	+md/-	+m	+m	+	+	+	PA	PA	7	b
2016	7351	Process water (swine industry)	-	0	0	-	st	st	st	st			st	st	-	-	NA																7	b
2016	7352	Process water (swine industry)	-	0	0	-	st	st	st	st			st	st	-	-	NA																7	b
2016	7353	Process water (swine industry)	-	0	0	-	st	st	st	st			st	st	-	-	NA																7	b
2016	7354	Process water (swine industry)	+	32.87	66.06	+	-	+m(1)/+	+m(1)/+	+m/+	+m/+	+m/+			+	+	PA	33.31	65.87	+	33.43	65.63	+	-	+m/+	+m	+m	+	+	+	PA	PA	7	b
2016	7355	Process water (swine industry)	-	0	0	-	st	-	st	st			st	st	-	-	NA																7	b
2016	7569	Cleaning water (vegetables industry)	+	25.84	66.28	+	+M	+M	+M	+M	+M	+M			+	+	PA	24.68	66.19	+	24.99	66.42	+	+M	+M			+	+	+	PA	PA	7	b
2016	7570	Cleaning water (vegetables industry)	+	27.83	65.93	+	+1/2	+M	+M	+M	+M	+M			+	+	PA	26.6	65.97	+	26.9	66.16	+	+M	+M			+	+	+	PA	PA	7	b
2016	7571	Process water (vegetables industry)	-	29,29/ 31,3/ 31,92	66,15/ 66,22/ 66,08	+/-/+	-	-	-	-	-	st	-	st	-(5 MSRV-)	-	PD FP(alt)	0	0	-	29,84/ 33,17/ 33,54	66,13/ 66,36/ 66,31	+/-/+	-	-			-	-	NA	PD FP(alt)	7	b	
2016	7574	Process water (fish industry)	+	24.18	66.2	+	+1/2	+M	+M	+M	+M	+M			+	+	PA	23.18	66.71	+	23.1	66.19	+	+M	+M			+	+	+	PA	PA	7	b
2016	7575	Process water (fish industry)	+	25.03	66.17	+	+M	+p	+p	+p	+p	+p			+	+	PA	24.24	66.64	+	24.23	66.36	+	+M	+M			+	+	+	PA	PA	7	b

PRODUCTION ENVIRONMENTAL SAMPLES – Standard protocol – Extension No 2																																		
Year of analysis	Sample N°	Product	ISO 6579♦ method	Alternative method: GENE-UP <i>Salmonella</i>																										Category	Type			
			Result	BPW 18h 37°C														BPW 18h 37°C +72h at 5 ± 3°C																
				PCR			Confirmation								Final result	Agree ment	PCR-BPW 72h			PCR-Lysate 72h			Confirmation					Final result				Agreement		
							Direct streaking				Subculture SX2												Confirmation final result	Direct streaking		Subculture SX2								Confirmation final result
				Typical colonies							Typical colonies						6h at 41.5°C ± 1.0°C		6h at 41.5°C ± 1.0°C		Typical colonies			Typical colonies										
				Cp	Tm	Result	ChromID Salmonella	XLD	ASAP	RAPID' Salmonella	XLD	ASAP	XLD	ASAP			Confirmation final result	Cp	Tm	Re sult	Cp	Tm		Result	XLD	ASAP	XLD	ASAP	Confirmation final result			BPW	Lysate	
2016	7576	Process water (fish industry)	+	26.1	66.29	+	+1/2	+M	+M	+M	+p	+M		+	+	PA	25.3	66.26	+	25.87	66.45	+	+M	+M			+	+	+	PA	PA	7	b	
2016	7577	Process water (fish industry)	+	27.45	66.18	+	+m	+m	+M	+M	+M			+	+	PA	27.62	66.34	+	27.46	66.16	+	+m	+1/2			+	+	+	PA	PA	7	b	
2016	7671	Water from pasteurizer (egg product industry)	-	0	0	-	st	st	st	st			st	st	-	-	NA															7	b	
2016	7672	Water from pasteurizer (egg product industry)	-	0	0	-	st	st	st	st			st	st	-	-	NA															7	b	
2016	7773	Cleaning water (delicatessen industry)	-	0	0	-	-	-	+m d/+	-			-	st	-	-	NA															7	b	
2016	7774	Cleaning water (delicatessen industry)	+	24.56	66.35	+	+m	+M	+M	+M	+M	+p		+	+	PA	24.88	66.57	+	24.6	66.4	+	+M	+M			+	+	+	PA	PA	7	b	
2016	7775	Cleaning water (delicatessen industry)	+	26.24	66.35	+	+m	+1/2	+M	+m	+M	+M		+	+	PA	26.66	66.59	+	26.76	66.57	+	+m	+1/2			+	+	+	PA	PA	7	b	
2016	2410	Porcine environment	-	0	0	-	st	st	st	st			st	st	-	-	NA															7	c	
2016	2411	Porcine environment	-	0	0	-	-	-	-	-			-	-	-	-	NA															7	c	
2016	2412	Porcine environment	-	0	0	-	-	-	-	-			-	-	-	-	NA															7	c	
2016	2413	Porcine environment	-	0	0	-	-	-	-	-			st	st	-	-	NA															7	c	
2016	2414	Porcine environment	-	0	0	-	-	+d	-	-			-	-	-	-	NA															7	c	
2016	2415	Porcine environment	-	0	0	-	-	-	-	-			-	-	-	-	NA															7	c	
2016	7356	Wipe (swine industry)	-	0	0	-	st	st	st	st			st	st	-	-	NA															7	c	
2016	7357	Wipe (swine industry)	-	0	0	-	-	-	-	-			-	-	-	-	NA															7	c	
2016	7358	Wipe (swine industry)	-	0	0	-	-	-	-	-			-	-	-	-	NA															7	c	
2016	7360	Wipe (swine industry)	-	0	0	-	-	-	-	-			-	-	-	-	NA															7	c	
2016	7361	Wipe (swine industry)	-	0	0	-	-	-	-	-			-	-	-	-	NA															7	c	
2016	7362	Wipe (swine industry)	-	0	0	-	-	-	-	-			-	-	-	-	NA															7	c	
2016	7363	Wipe (swine industry)	-	0	0	-	-	-	-	-			-	-	-	-	NA															7	c	
2016	7364	Wipe (swine industry)	+	32.51	66	+	-	-	-	-	-	-	+m	+m	+	+	PA	32.61	32.97	+	33.2	65.32	+	+md/-	-	+m	+m	+	+	+	PA	PA	7	c
2016	7365	Wipe (swine industry)	-	0	0	-	-	-	-	-			-	-	-	-	NA															7	c	
2016	7366	Wipe (swine industry)	-	0	0	-	-	-	-	-			-	-	-	-	NA															7	c	
2016	7367	Wipe (swine industry)	-	0	0	-	-	-	-	-			-	-	-	-	NA															7	c	

PRODUCTION ENVIRONMENTAL SAMPLES – Standard protocol – Extension No 2																																		
Year of analysis	Sample N°	Product	ISO 6579♦ method	Alternative method: GENE-UP <i>Salmonella</i>																										Category	Type			
			Result	BPW 18h 37°C														BPW 18h 37°C +72h at 5 ± 3°C																
				PCR			Confirmation										Final result	Agree ment	PCR-BPW 72h			PCR-Lysate 72h			Confirmation				Final result			Agreement		
							Direct streaking				Subculture SX2		Confirmation final result																					
				Cp	Tm	Result								Typical colonies					Typical colonies				Cp	Tm	Re sult	Cp	Tm	Result	Direct streaking			Subculture SX2		Confirmation final result
							6h at 41.5°C ± 1.0°C		24h at 41.5°C ± 1.0°C		6h at 41.5°C ± 1.0°C																							
							ChromID Salmonella	XLD	ASAP	RAPID' Salmonella	XLD	ASAP		XLD	ASAP	XLD			ASAP	XLD	ASAP	XLD							ASAP			XLD	ASAP	
2016	7661	Wipe (vegetables industry)	+	31.85	65.92	+	-	-	+m d/+	+1/2	+m	+m/+			+	+			PA	31.1	66.09	+	31.87	65.97	+	-	-	+M (24h)	+M (24h)	+	+	+	PA	PA
2016	7662	Wipe (vegetables industry)	+	32.43	66.17	+	-	+m/+	+m/+	+m/+	+1/2	+1/2			+	+	PA	31.8	66	+	32.34	66.21	+	-	+m/+			+	+	+	PA	PA	7	c
2016	7663	Wipe (vegetables industry)	+	0/0/0	0/0/0	-/-/-	-	-	-	-			-	+M	+	-	ND FN(alt)	0	0	-	0	0	-	-	-			-	-	-	ND	ND	7	c
2016	7664	Wipe (vegetables industry)	-	0	0	-	-	-	-	-			-	-	-	-	NA																7	c
2016	7665	Wipe (dairy industry)	+	30.69	66.16	+	-	+m (1)/+	+m/+	+m/+	+m	+m			+	+	PA	29.99	66.21	+	30.69	66.67	+	-	-	+M (24h)	+M (24h)	+	+	+	PA	PA	7	c
2016	7666	Wipe (dairy industry)	+	30.46	66.01	+	-	+m/+	+m/+	+m/+	+M	+M			+	+	PA	29.89	66.05	+	30.86	66.41	+	+m	+m/+			+	+	+	PA	PA	7	c
2016	7786	Wipe (delicatessen industry)	+	29.46	65.92	+	-	-	+m	+m/+	+m	+m			+	+	PA	29	66.44	+	29.44	65.91	+	-	+m			+	+	+	PA	PA	7	c
2016	7787	Wipe (delicatessen industry)	-	0	0	-	-	-	-	-			-	-	-	-	NA																7	c
2016	7788	Wipe after cleaning (delicatessen industry)	+	22.18	66.36	+	+M	+M	+M	+M	+M	+M			+	+	PA	21.11	66.17	+	22.53	66.32	+	+1/2	+M			+	+	+	PA	PA	7	c
2016	7789	Wipe after cleaning (delicatessen industry)	+	26.2	66.33	+	+m	+m/+	+m/+	+m/+	+1/2	+1/2			+	+	PA	26.03	66.44	+	66.47	65.19	+	+m/+	+m/+			+	+	+	PA	PA	7	c
2016	7790	Wipe after cleaning (delicatessen industry)	+	23.93	66.63	+	+m	+m/+	+1/2	+1/2	+M	+M			+	+	PA	24.27	66.73	+	24.62	66.42	+	+m/+	+1/2			+	+	+	PA	PA	7	c

Category 10: COCOA AND CHOCOLATES (375 g test portion) – Specific protocol ④ – Extension No 3

COCOA AND CHOCOLATES (375 g test portion) – Specific protocol ☉ - Extension No 3																																				
Year of analysis	Sample N°	Product	ISO 6579* method	Alternative method : GENE-UP <i>Salmonella</i>																												Category	Type			
			Result	BPW 20h 37°C														BPW 20h 37°C +72h at 5 ± 3°C																		
				PCR			Direct streaking				Subculture SX2				Confirmation final result	Final result	Agree-ment	PCR-72h BPW 1/10			PCR-72h Lysate			Direct streaking		Subculture SX2		Confirmation final result	Final result		Agreement					
				Cp	Tm	Result					6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C					Cp	Tm	Result	Cp	Tm	Result			Typical colonies			6h at 41.5°C ±1.0°C		Typical colonies			BPW 1/10	Lysate	BPW 1/10
											Typical colonies													Typical colonies					Typical colonies		Typical colonies					
				ChromID Salmonella	XLD	ASAP	RAPID'Salmonella	XLD	ASAP	XLD	ASAP	XLD	ASAP	XLD				ASAP	XLD	ASAP	XLD	ASAP	XLD	ASAP	XLD	ASAP	XLD		ASAP	XLD	ASAP			XLD	ASAP	XLD
2017	3260	Cocoa powder (cocoa 32%)	+	32.76	66.16	+	+p	+p	+p	+p	+p			+				+	PA	32.69	66.19	+	33.11	66.28	+	+p	+M		+p	+p	+	+	+	PA	PA	10
2017	3261	Cocoa powder (cocoa 32%)	+	31.33	66.16	+	+p	+p	+p	+p	+p			+	+	PA	31.58	66.45	+	31.54	66.26	+	+p	+M	+p	+p	+	+	+	PA	PA	10	a			
2017	3262	Cocoa powder (cocoa 31,7%)	+	29.4	66.13	+	+p	+p	+p	+p	+p			+	+	PA	29.74	66.38	+	29.53	66.05	+	+p	+M	+p	+p	+	+	+	PA	PA	10	a			
2017	3263	Cocoa powder (cocoa 31,7%)	-	30.95	66.14	+	+p	+p	+p	+p	+p			+	+	PD	31.16	66.22	+	30.66	66.16	+	+p	+M	+p	+p	+	+	+	PD	PD	10	a			
2017	3264	Cocoa powder (cocoa 32%)	+	0	0	-	st	st	st	st	st	st	st	-	-	ND	0	0	-	0	0	-	st	st	st	st	-	-	-	ND	ND	10	a			
2017	3265	Cocoa powder (cocoa 32%)	+	29.45	66.14	+	+p	+p	+p	+p	+p			+	+	PA	30.22	66.31	+	30.49	66.3	+	+p	+M	+p	+p	+	+	+	PA	PA	10	a			
2017	3266	Cocoa powder (cocoa 32%)	-	33.94	66.41	+	+M	+p	+p	+p	+p			+	+	PD	33.59	66.35	+	34.1	66.49	+	st	st	+p	+p	+	+	+	PD	PD	10	a			
2017	3267	Cocoa powder (cocoa 32%)	+	30.19	66.57	+	+p	+p	+p	+p	+p			+	+	PA	32.72	66.43	+	30.53	66.22	+	+p	+M	+p	+p	+	+	+	PA	PA	10	a			
2017	3268	Cocoa powder (cocoa 21,3%)	+	32.56	66.5	+	+p	+p	+p	+p	+p			+	+	PA	30.24	66.21	+	32.87	66.19	+	+p	+M	+p	+p	+	+	+	PA	PA	10	a			
2017	3269	Cocoa powder (cocoa 21,3%)	-	0	0	-	st	st	st	st	st	st	st	-	-	NA																10	a			
2017	3270	Cocoa powder (cocoa 32%)	+	31.42	66.13	+	+p	+p	+p	+p	+p			+	+	PA	31.1	66.51	+	31.68	66.32	+	+p	+p	+p	+p	+	+	+	PA	PA	10	a			
2017	3271	Cocoa powder (cocoa 32%)	-	27.43	66.14	+	+p	+p	+p	+p	+p			+	+	PD	26.78	66.26	+	27.65	66.09	+	+p	+p	+p	+p	+	+	+	PD	PD	10	a			
2017	3272	Cocoa powder (cocoa 20%)	+	0	0	-	-	-	-	-	-	-	-	-	-	ND	0	0	-	0	0	-	-	-	-	-	-	-	-	ND	ND	10	a			
2017	3273	Cocoa powder (cocoa 20%)	-	33.13	66.09	+	+m	+M	+m	+m	+p	+p			+	+	PD	33.03	66.29	+	32.95	66.17	+	+p	+M	+p	+p	+	+	+	PD	PD	10	a		
2017	3274	Cocoa powder (cocoa 32%)	+	29.72	66.51	+	+M	+p	+p	+p	+p			+	+	PA	29.03	66.2	+	29.46	66.05	+	+p	+p	+p	+p	+	+	+	PA	PA	10	a			
2017	3275	Cocoa powder (cocoa 32%)	-	0	0	-	st	st	st	st	st	st	st	-	-	NA																10	a			
2017	3276	Cocoa powder (cocoa 32%)	+	28.47	66.32	+	+p	+p	+p	+p	+p			+	+	PA	28.95	66.37	+	28.24	66.1	+	+p	+p	+p	+p	+	+	+	PA	PA	10	a			
2017	3277	Cocoa powder (cocoa 32%)	-	0	0	-	st	st	st	st	st	st	st	-	-	NA																10	a			

* Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

COCOA AND CHOCOLATES (375 g test portion) – Specific protocol ④ - Extension No 3																																			
Year of analysis	Sample N°	Product	ISO 6579* method	Alternative method : GENE-UP <i>Salmonella</i>																										Category	Type				
			Result	BPW 20h 37°C													BPW 20h 37°C +72h at 5 ± 3°C																		
				PCR			Direct streaking				Subculture SX2				Confirmation final result	Final result	Agree- ment	PCR-72h BPW 1/10			PCR-72h Lysate			Direct streaking	Subculture SX2	Confirmation final result	Final result		Agreement						
				Cp	Tm	Result					6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C					Cp	Tm	Result	Cp	Tm	Result				Typical colonies		6h at 41.5°C ±1.0°C			BPW 1/10	Lysate	BPW 1/10	Lysate
							Typical colonies				Typical colonies													Typical colonies			Typical colonies								
							ChromID Salmonella	XLD	ASAP	RAPID'Salmonella	XLD	ASAP	XLD	ASAP										XLD	ASAP		XLD	ASAP	XLD						
2017	3278	Cocoa powder (cocoa 20%)	+	0	0	-	st	st	st	st	st	st	st	st				-	-	ND	0	0	-	0	0		-	st	st	st	st	-	-	-	ND
2017	3279	Cocoa powder (cocoa 32%)	+	0	0	-	-	-	-	-	-	-	-	-	-	-	ND	0	0	-	0	0	-	-	-	-	-	-	-	-	ND	ND	10	a	
2017	7048	Alkalized organic cocoa powder	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA																10	a	
2017	7049	Fat reduced cocoa powder	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA																	10	a
2017	7050	Fat reduced cocoa powder	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA																	10	a
2017	7692	Cocoa powder	-	0	0	-	st	st	st	st			st	st	-	-	NA																	10	a
2017	6691	White chocolate	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA																	10	b
2017	6692	White chocolate	+	29.51	66.26	+	+M	+p	+M	+M	+M	+M			+	+	PA	29.54	66.43	+	30.27	66.06	+	+M	+M	+M	+M	+	+	+	PA	PA	10	b	
2017	6693	Dark chocolate	-	33.12	66.48	+	+m	+m	+m	+m/+	+p	+p			+	+	PD	33.53	66.19	+	33.88	65.89	+	+m	+m	+M	+M	+	+	+	PD	PD	10	b	
2017	6694	Nuts chocolate	+	27.29	66.14	+	+M	+M	+M	+M	+1/2	+M			+	+	PA	26.83	66.23	+	28.17	65.84	+	+M	+M	+M	+M	+	+	+	PA	PA	10	b	
2017	6695	Nuts chocolate	+	30.01	66.25	+	+m	+m/+	+m	+m	+M	+M			+	+	PA	30.65	66.26	+	30.87	65.75	+	+M	+m	+M	+M	+	+	+	PA	PA	10	b	
2017	6696	Milk chocolate	+	35.56	66.9	+	+M	+M	+M	+M	+p	+p			+	+	PA	0/34,99/34,99	0/66,55/66,41	-/+	35.33	65.84	+	+p	+p	+p	+p	+	-	+	ND FN(alt)	PA	10	b	
2017	6697	Milk chocolate	+	32.01	66.45	+	+p	+p	+p	+p	+p	+p			+	+	PA	32.02	66.42	+	32.15	65.86	+	+p	+p	+p	+p	+	+	+	PA	PA	10	b	
2017	6698	Dark chocolate (65% cocoa)	-	31.1	66.49	+	+p	+p	+p	+p	+p	+p			+	+	PD	31.04	66.12	+	33.01	66.11	+	+p	+p	+p	+p	+	+	+	PD	PD	10	b	
2017	6699	Couverture chocolate (75% cocoa)	+	28.82	66.34	+	+p	+p	+p	+p	+p	+p			+	+	PA	27.66	66.39	+	29.23	66.14	+	+p	+p	+p	+p	+	+	+	PA	PA	10	b	
2017	6700	Chocolate for bakery (44% cocoa)	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA																	10	b
2017	7051	White chocolate	-	0	0	-	-	-	-	-	st	st	st	st	-	-	NA																	10	b
2017	7052	Dark chocolate	-	0	0	-	-	-	-	-	-	-	-	-	-	-	NA																	10	b
2017	7053	Nuts chocolate	-	0	0	-	-	-	-	-	-	-	-	-	-	-	NA																	10	b
2017	7693	Dark chocolate (50% cocoa)	-	0	0	-	st	st	st	st			st	st	-	-	NA																	10	b
2017	7694	Dark chocolate (75% cocoa)	-	0	0	-	st	st	st	st			st	st	-	-	NA																	10	b
2017	7695	Dark chocolate	-	0	0	-	st	st	st	st			st	st	-	-	NA																	10	b
2017	7696	Dark chocolate (65% cocoa)	-	0	0	-	st	st	st	st			st	st	-	-	NA																	10	b

COCOA AND CHOCOLATES (375 g test portion) – Specific protocol ④ - Extension No 3																																		
Year of analysis	Sample N°	Product	ISO 6579* method	Alternative method : GENE-UP <i>Salmonella</i>																										Category	Type			
				BPW 20h 37°C														BPW 20h 37°C +72h at 5 ± 3°C																
			PCR			Direct streaking				Subculture SX2		Confirmation final result	Final result	Agree-ment	PCR-72h BPW 1/10			PCR-72h Lysate			Direct streaking	Subculture SX2	Confirmation final result	Final result		Agreement								
			Cp	Tm	Result					6h at 41.5°C ±1.0°C					24h at 41.5°C ±1.0°C		Cp	Tm	Result	Cp				Tm	Result	Typical colonies		Typical colonies				BPW 1/10	Lysate	BPW 1/10
						Typical colonies				Typical colonies					Typical colonies						Typical colonies													
						ChromID Salmonella	XLD	ASAP	RAPID'Salmonella	XLD	ASAP				XLD	ASAP					XLD	ASAP				XLD	ASAP	XLD	ASAP	XLD	ASAP			
2017	7697	Milk chocolate (41% cocoa)	-	0	0	-	st	st	st	st			st	st	-	-	NA														10	b		
2017	7698	Chocolate for bakery (44% cocoa)	-	0	0	-	st	st	st	st			st	st	-	-	NA															10	b	
2017	7699	Chocolate for bakery (44% cocoa)	-	0	0	-	st	st	st	st			st	st	-	-	NA															10	b	
2017	4260	Cocoa liquor	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA															10	c	
2017	6681	Cocoa beans	+	0/0/0	0/0/0	-/-/-	+md/-	-	-	-	+m	+m/+	+m	+m	+	-	ND FN(alt)	0	0	-	0	0	-	-	+md	-	+md/+	+	-	-	ND FN(alt)	ND FN(alt)	10	c
2017	6682	Natural cocoa liquor	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA																10	c
2017	6683	Cocoa butter	+	25.44	66.27	+	+M	+M	+M	+M	+M	+p			+	+	PA	24.29	66.41	+	24.73	66.19	+	+p	+p	+p	+p	+	+	+	PA	PA	10	c
2017	6684	Deodorized cocoa butter	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA																10	c
2017	6685	Non deodorized cocoa butter	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA																10	c
2017	6686	Cocoa mass	-	0	0	-	-	-	-	-	st	st	st	st	-	-	NA																10	c
2017	6688	Cocoa mass	+	27.8	66.48	+	+m	+m	+m	+m	+M	+M			+	+	PA	26.8	66.68	+	27.81	66.62	+	+m	+m	+p	+p	+	+	+	PA	PA	10	c
2017	6689	Cocoa mass	-	0/ 35.03/ 0	0/ 66.74/ 0	- +/-	+M	+M	+M	+M	+M	+M			+	-	NA FN(alt)	0/ 0/37.5	0/0/ 66.76	-/-/+	34.84	66.79	+	+m	+m	+p	+p	+	-	+	NA FN(alt)	PD	10	c
2017	6690	Cocoa mass	+	0	0	-	st	st	st	st	st	st	st	st	-	-	ND	0	0	-	0	0	-	st	st	st	st	-	-	-	ND	ND	10	c
2017	7054	Cocoa mass	-	0	0	-	st	st	st	st	-	-	-	-	-	-	NA																10	c
2017	7055	Cocoa mass	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA																10	c
2017	7056	Cocoa mass	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA																10	c
2017	7700	Cocoa mass	+	26.54	66.57	+	+p	+p	+p	+p	+p	+p			+	+	PA	25.56	66.72	+	25.85	66.52	+	+p	+p			+	+	+	PA	PA	10	c
2017	7701	Cocoa mass	+	24.48	66.19	+	+p	+p	+p	+p	+p	+p			+	+	PA	23.85	66.4	+	23.96	66.27	+	+p	+p			+	+	+	PA	PA	10	c
2017	7702	Cocoa mass	+	24.03	66.36	+	+p	+p	+p	+p	+p	+p			+	+	PA	23.71	66.53	+	23.93	66.42	+	+p	+p			+	+	+	PA	PA	10	c
2017	7703	Cocoa butter	+	24.7	66.33	+	+p	+p	+p	+p	+p	+p			+	+	PA	23.78	66.48	+	24.27	66.29	+	+p	+p			+	+	+	PA	PA	10	c
2017	7704	Cocoa butter	-	0	0	-	st	st	st	st			st	st	-	-	NA																10	c
2017	7705	Cocoa mass	-	0	0	-	st	st	st	st			st	st	-	-	NA																10	c
2017	7706	Cocoa mass	-	0	0	-	st	st	st	st			st	st	-	-	NA																10	c
2017	7707	Cocoa mass	-	0	0	-	st	st	st	st			st	st	-	-	NA																10	c

Category 10: COCOA AND CHOCOLATES (375 g test portion) – ISO protocol– Extension No 3

COCOA AND CHOCOLATES (375 g test portion) - ISO ENRICHMENT (Extension No 3)																																		
Year of analysis	Sample N°	Product	ISO 6579♦ method	Alternative method: GENE-UP <i>Salmonella</i>																										Category	Type			
				ISO Enrichment for 22h at 37°C														ISO Enrichment for 22h at 37°C +72h at 5°C ± 3°C																
				PCR (enrichment 1/10) 22h incubation time			Confirmation								Fin al res ult	Agree- ment	PCR			Confirmation			Final result		Agreement									
				Cp	Tm	Result	Direct streaking				Subculture SX2 6h at 41.5°C ±1.0°C		Subculture SX2 24h at 41.5°C ±1.0°C				Fianl result confirmation	BPW 72h			Lysate 72h			Direct streaking		Subculture SX2 6h at 41.5°C ±1.0°C		Final result confirmation	BPW			Lysate	ISO 1/10 (new dilution)	Lysate
							Typical colonies				Typical colonies		Typical colonies					Cp	Tm	Result	Cp	Tm	Result	Typical colonies		Typical colonies								
ChromID Salmonella	XLD	ASAP	RAPID' Salmonella				XLD	ASAP	XLD	ASAP	XLD	ASAP	XLD	ASAP																				
2017	3260	Cocoa powder (cocoa 32%)	+	31.77	66.23	+	+M	+p	+M	+M	+p	+p			+	+	PA	31.24	66.4	+	31.52	66.14	+	+M	+M	+p	+p	+	+	+	PA	PA	10	a
2017	3261	Cocoa powder (cocoa 32%)	+	31.83	66.55	+	+1/2	+p	+M	+M	+p	+p			+	+	PA	31.75	66.22	+	32.14	66.09	+	+p	+M	+p	+p	+	+	+	PA	PA	10	a
2017	3262	Cocoa powder (cocoa 31.7%)	+	32.69	66.6	+	+p	+p	+M	+p	+p	+p			+	+	PA	32.25	66.31	+	32.14	66.25	+	+M	+M	+p	+p	+	+	+	PA	PA	10	a
2017	3263	Cocoa powder (cocoa 31.7%)	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA																10	a
2017	3264	Cocoa powder (cocoa 32%)	+	30.82	66.46	+	+p	+p	+M	+p	+p	+p			+	+	PA	30.52	66.27	+	30.14	66.23	+	+M	+M	+p	+p	+	+	+	PA	PA	10	a
2017	3265	Cocoa powder (cocoa 32%)	+	33.86	66.4	+	+p	+p	+M	+p	+p	+p			+	+	PA	32.85	66.29	+	34.28	66.33	+	+p	+M	+p	+p	+	+	+	PA	PA	10	a
2017	3266	Cocoa powder (cocoa 32%)	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA																10	a
2017	3267	Cocoa powder (cocoa 32%)	+	30.84	66.36	+	+p	+p	+M	+p	+p	+p			+	+	PA	30.62	66.34	+	30.8	66.17	+	+M	+M	+p	+p	+	+	+	PA	PA	10	a
2017	3268	Cocoa powder (cocoa 21,3%)	+	29.14	66.18	+	+p	+p	+M	+p	+p	+p			+	+	PA	29.27	66.17	+	29.05	66.11	+	+m	+M	+p	+p	+	+	+	PA	PA	10	a
2017	3269	Cocoa powder (cocoa 21,3%)	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA																10	a
2017	3270	Cocoa powder (cocoa 32%)	+	26.49	66.16	+	+p	+p	+p	+p	+p	+p			+	+	PA	26.19	66.54	+	25.26	66.33	+	+p	+p	+p	+p	+	+	+	PA	PA	10	a
2017	3271	Cocoa powder (cocoa 32%)	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA																10	a
2017	3272	Cocoa powder (cocoa 20%)	+	31.72	65.92	+	+m	+M	+m/+	+m	+M	+M			+	+	PA	31.81	66.33	+	31.61	66.2	+	+M	+m	+p	+p	+	+	+	PA	PA	10	a
2017	3273	Cocoa powder (cocoa 20%)	-	0	0	-	-	-	-	-	-	-	-	-	-	-	NA																10	a
2017	3274	Cocoa powder (cocoa 32%)	+	31.58	65.99	+	+p	+p	+M	+p	+p	+p			+	+	PA	30.85	66.47	+	30.92	66.42	+	+p	+p	+p	+p	+	+	+	PA	PA	10	a
2017	3275	Cocoa powder (cocoa 32%)	-	0	0	-	-	-	-	-	st	st	st	st	-	-	NA																10	a
2017	3276	Cocoa powder (cocoa 32%)	+	31.85	65.81	+	+1/2	+M	+M	+M	+p	+p			+	+	PA	31.43	66.4	+	31.61	66.41	+	+M	+M	+p	+p	+	+	+	PA	PA	10	a
2017	3277	Cocoa powder (cocoa 32%)	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA																10	a

• Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

COCOA AND CHOCOLATES (375 g test portion) - ISO ENRICHMENT (Extension No 3)																																			
Year of analysis	Sample N°	Product	ISO 6579♦ method	Alternative method: GENE-UP <i>Salmonella</i>																										Category	Type				
			Result	ISO Enrichment for 22h at 37°C													ISO Enrichment for 22h at 37°C +72h at 5°C ± 3°C																		
				PCR (enrichment 1/10) 22h incubation time			Confirmation								Fin al res ult	Agree- ment	PCR			Confirmation			Final result		Agreement										
				Cp	Tm	Result	Direct streaking				Subculture SX2 6h at 41.5°C ±1.0°C		Subculture SX2 24h at 41.5°C ±1.0°C				Fianl result confirmation	BPW 72h			Lysate 72h			Direct streaking		Subculture SX2 6h at 41.5°C ±1.0°C		Final result confirmation	BPW			Lysate	ISO 1/10 (new dilution)	Lysate	
							Typical colonies				Typical colonies		Typical colonies					Cp	Tm	Result	Cp	Tm	Result	Typical colonies		Typical colonies									
							ChromID Salmonella	XLD	ASAP	RAPID' Salmonella	XLD	ASAP	XLD	ASAP										XLD	ASAP	XLD	ASAP								
2017	3278	Cocoa powder (cocoa 20%)	+	30.53	65.49	+	+p	+p	+p	+p	+p			+	+	PA	36.87	62.05	+	31.01	66.24	+	+p	+p	+p	+p	+	+	+	PA	PA	10	a		
2017	3279	Cocoa powder (cocoa 32%)	+	31.52	66.3	+	+M	+p	+p	+p	+p			+	+	PA	32.45	66.35	+	31.02	66.35	+	+p	+p	+p	+p	+	+	+	PA	PA	10	a		
2017	7048	Alkalized organic cocoa powder	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA															10	a		
2017	7049	Fat reduced cocoa powder	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA															10	a		
2017	7050	Fat reduced cocoa powder	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA															10	a		
2017	4261	Dark chocolate (50% cocoa)	-	0	0	-	-	-	-	-	-	-	-	-	-	-	NA															10	b		
2017	4262	Milk chocolate and caramel (31% cocoa)	+	31.85	66.43	+	+m	+m	+m/+	+m/+	+M	+m			+	+	PA	32.18	66.38	+	31.45	66.34	+	+m/+	+m/+			+	+	+	PA	PA	10	b	
2017	4263	Milk chocolate (47% cocoa)	+	33.06	66.51	+	+p	+p	+M	+M	+p	+p			+	+	PA	32.96	33.41	+	32.76	66.28	+	+p	+p			+	+	+	PA	PA	10	b	
2017	4264	Dark chocolate (50% cocoa)	-	0	0	-	-	-	-	-	-	-	-	-	-	-	NA															10	b		
2017	4265	Dark chocolate (65% cocoa)	-	0	0	-	-	st	-	st	st	st	st	st	-	-	NA															10	b		
2017	5372	Dark chocolate	+	28.86	66.39	+	+m	+M	+m	+m	+p	+p			+	+	PA	29.2	66.42	+	29.28	66.55	+	+1/2	+1/2	+M	+M	+	+	+	PA	PA	10	b	
2017	5373	Dark chocolate	+	24.62	66.35	+	+M	+p	+M	+M	+p	+p			+	+	PA	25.18	66.35	+	24.76	66.43	+	+p	+p	+p	+p	+	+	+	PA	PA	10	b	
2017	5374	Dark chocolate	-	0	0	-	-	-	-	-	-	-	-	-	-	-	NA	0	0	-	0	0	-	-	-	-	-	-	-	-	-	NA	NA	10	b
2017	5375	White chocolate	+	32.69	66.44	+	+m	+M	+m	+M	+p	+p			+	+	PA	33.9	66.5	+	32.77	66.53	+	+1/2	+M	+p	+p	+	+	+	PA	PA	10	b	
2017	5376	White chocolate	+	35.01	66.4	+	-	+m/+	+md/-	+md/-	+M	+md/+			+	+	PA	34.5	66.39	+	34.17	66.52	+	+m/+	+m/+	+M	+m	+	+	+	PA	PA	10	b	
2017	5377	White chocolate	+	34.17	66.42	+	+md/-	+md/+	+md/-	-	+M	+M			+	+	PA	34.08	66.49	+	34.24	66.61	+	+m/+	+m/+	+M	+M	+	+	+	PA	PA	10	b	
2017	5378	Milk chocolate	+	29.77	66.48	+	-	+M	+m	+m	+M	+M			+	+	PA	30.17	66.48	+	30.44	66.59	+	+M	+m	+M	+M	+	+	+	PA	PA	10	b	
2017	5379	Milk chocolate	+	34.08	66.32	+	+m	+md/-	+m/+	+m/+	+M	+m			+	+	PA	34.16	66.57	+	34.17	66.48	+	+m/+	+md/+	+m	+m	+	+	+	PA	PA	10	b	
2017	5380	Milk chocolate	+	31.68	66.26	+	-	+m	+m	+m	+M	+1/2			+	+	PA	32.85	66.44	+	32.08	66.43	+	+m	+m	+M	+m	+	+	+	PA	PA	10	b	

COCOA AND CHOCOLATES (375 g test portion) - ISO ENRICHMENT (Extension No 3)																																		
Year of analysis	Sample N°	Product	ISO 6579♦ method	Alternative method: GENE-UP <i>Salmonella</i>																								Category	Type					
			Result	ISO Enrichment for 22h at 37°C												ISO Enrichment for 22h at 37°C +72h at 5°C ± 3°C																		
				PCR (enrichment 1/10) 22h incubation time			Confirmation								Fin al res ult	Agree- ment	PCR			Confirmation			Final result		Agreement									
				Cp	Tm	Result	Direct streaking				Subculture SX2 6h at 41.5°C ±1.0°C		Subculture SX2 24h at 41.5°C ±1.0°C				Fianl result confirmation	BPW 72h			Lysate 72h			Direct streaking		Subculture SX2 6h at 41.5°C ±1.0°C				Final result confirmation	BPW	Lysate	ISO 1/10 (new dilution)	Lysate
							Typical colonies				Typical colonies		Typical colonies					Cp	Tm	Result	Cp	Tm	Result	Typical colonies		Typical colonies								
ChromID Salmonella	XLD	ASAP	RAPID' Salmonella	XLD	ASAP	XLD	ASAP	XLD	ASAP	XLD	ASAP	XLD	ASAP																					
2017	5381	Nut chocolate	+	35.06	66.34	+	+md/-	+md/+	-	-	+m	+md/+	+M	+M	+	+	PA	35.94	66.51	+	35.14	66.46	+	+md/+	-	+m	+m	+	+	+	PA	PA	10	b
2017	5382	Nut chocolate	+	0	0	-	-	-	-	-	-	-	- (+ at 72h)	- (+ at 72h)	+	-	ND FN(alt)	0	0	-	0	0	-	+md/+	-	- (24h: +/ - /+ /+/-)	- (24h: - /- /+ /+/-)	+	-	-	ND FN(alt)	ND FN(alt)	10	b
2017	7051	White chocolate	-	0	0	-	-	-	-	-	-	-	-	-	-	-	NA																10	b
2017	7052	Dark chocolate	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA																10	b
2017	7053	Nuts chocolate	-	0	0	-	-	-	-	-	-	-	-	-	-	-	NA																10	b
2017	7693	Dark chocolate (50% cocoa)	-	0	0	-	st	st	st	st			st	st	-	-	NA																10	b
2017	4256	Cocoa butter	-	36.44/0/0	66.51/0/0	+/-/-	-	-	-	st	st	st	st	st	-	-	PD FP(alt)	0	0	-	0	0	-	st	st			-	-	-	NA	NA	10	c
2017	4257	Cocoa beans	-	0	0	-	-	-	-	-	-	-	-	-	-	-	NA	0	0	-	0	0	-	-	-			-	-	-	NA	NA	10	c
2017	4258	Crumbs	+	29.62	66.62	+	+p	+p	+p	+p	+p	+p			+	+	PA	30.17	66.29	+	29.31	66.41	+	+p	+p			+	+	+	PA	PA	10	c
2017	4259	Crumbs	-	0	0	-	-	-	-	-	-	-	-	-	-	-	NA																10	c
2017	4260	Cocoa liquor	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA																10	c
2017	6681	Cocoa beans	+	35.17	66.47	+	-	-	-	-	-	+md/-	-	+m/-	- (+ ISO)	+	PA	34.57	66.66	+	35.59	66.65	+	-	+md/-	-	+md/-	+(ISO)	+	+	PA	PA	10	c
2017	6682	Natural cocoa liquor	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA																10	c
2017	6683	Cocoa butter	+	25.25	66.38	+	+M	+M	+M	+M	+M	+p			+	+	PA	24.67	66.42	+	25.02	66.31	+	+M	+M	+p	+p	+	+	+	PA	PA	10	c
2017	6684	Deodorized cocoa butter	-	0	0	-	-	-	-	-	-	-	-	-	-	-	NA																10	c
2017	6685	Non deodorized cocoa butter	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA																10	c
2017	6686	Cocoa mass	-	0	0	-	-	-	-	-	-	-	-	-	-	-	NA																10	c
2017	6687	Cocoa mass	+	35	66.47	+	+M	+M	+M	+M	+M	+p			+	+	PA	34.73	66.66	+	35.01	66.68	+	+p	+p	+p	+p	+	+	+	PA	PA	10	c
2017	6688	Cocoa mass	+	25.56	66.38	+	+M	+M	+M	+M	+M	+p			+	+	PA	24.57	66.35	+	25.15	66.28	+	+p	+p			+	+	+	PA	PA	10	c
2017	6689	Cocoa mass	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA																10	c
2017	6690	Cocoa mass	+	25.1	66.46	+	+p	+p	+p	+p	+p	+p			+	+	PA	23.98	66.6	+	24.68	66.43	+	+p	+p	+p	+p	+	+	+	PA	PA	10	c
2017	7700	Cocoa mass	+	25.25	66.38	+	+p	+p	+p	+p	+p	+p			+	+	PA	24.83	66.23	+	25.22	66.24	+	+p	+p	+p	+p	+	+	+	PA	PA	10	c
2017	7701	Cocoa mass	+	24.32	66.33	+	+p	+p	+p	+p	+p	+p			+	+	PA	23.78	66.04	+	24.5	66.09	+	+p	+p	+p	+p	+	+	+	PA	PA	10	c
2017	7704	Cocoa butter	-	0	0	-	st	st	st	st			st	st	-	-	NA																10	c
2017	7705	Cocoa mass	-	0	0	-	st	st	st	st			st	st	-	-	NA																10	c
2017	7706	Cocoa mass	-	0	0	-	st	st	st	st			st	st	-	-	NA																10	c
2017	7707	Cocoa mass	-	0	0	-	st	st	st	st			st	st	-	-	NA																10	c

Category 11: MILK POWDERS, INFANT FORMULA WITH OR WITHOUT PROBIOTICS (375 g test portion) – Specific protocol ⑤ – Extension No 3

MILK POWDERS, INFANT FORMULA WITH OR WITHOUT PROBIOTICS (375 g test portion) - Specific protocol ⑤ - Extension No 3																																								
Year of analysis	Sample N°	Product	ISO 6579♦ method	Alternative method : GENE-UP <i>Salmonella</i>																												Category	Type							
			Result	BPW (1/4 dilution) + novobiocin 10mg/L for 20h at 37°C														BPW (1/4 dilution) + novobiocin 10mg/L for 20h at 37°C + 72h at 5°C ± 3C																						
				PCR			Confirmation								Confirmation final result	Final result	Agree-ment	PCR-BPW 72h			PCR-Lysate 72h			Confirmation				Final result		Agreement										
							Direct streaking				Subculture SX2													Direct streaking		Subculture SX2		Confirmation final result	BPW	Lysate	BPW			Lysate						
				Typical colonies														6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies													Typical colonies		Typical colonies		Typical colonies	
				Cp	Tm	Result	Direct streaking				Subculture SX2							6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies									Typical colonies		BPW	Lysate	BPW	Lysate
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C				24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies		BPW	Lysate	BPW	Lysate									
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies																
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies		BPW	Lysate	BPW	Lysate											
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies																
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies		BPW	Lysate	BPW	Lysate											
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies																
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies		BPW	Lysate	BPW	Lysate											
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies																
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies		BPW	Lysate	BPW	Lysate											
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies																
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies		BPW	Lysate	BPW	Lysate											
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies																
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies		BPW	Lysate	BPW	Lysate											
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies																
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies		BPW	Lysate	BPW	Lysate											
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies																
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies		BPW	Lysate	BPW	Lysate											
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies																
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies		BPW	Lysate	BPW	Lysate											
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies																
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies		BPW	Lysate	BPW	Lysate											
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies																
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies		BPW	Lysate	BPW	Lysate											
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies																
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies		BPW	Lysate	BPW	Lysate											
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies																
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies		BPW	Lysate	BPW	Lysate											
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies																
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies		BPW	Lysate	BPW	Lysate											
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies																
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies		BPW	Lysate	BPW	Lysate											
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies																
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies		BPW	Lysate	BPW	Lysate											
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies																
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies		BPW	Lysate	BPW	Lysate											
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies																
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies		BPW	Lysate	BPW	Lysate											
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies																
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies		BPW	Lysate	BPW	Lysate											
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies																
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies		BPW	Lysate	BPW	Lysate											
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies																
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies		BPW	Lysate	BPW	Lysate											
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies																
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies		BPW	Lysate	BPW	Lysate											
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies																
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies		BPW	Lysate	BPW	Lysate											
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies																
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies		BPW	Lysate	BPW	Lysate											
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies																
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies		BPW	Lysate	BPW	Lysate											
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies																
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies		BPW	Lysate	BPW	Lysate											
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies																
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies		BPW	Lysate	BPW	Lysate											
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies																
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies		BPW	Lysate	BPW	Lysate											
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies																
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies		BPW	Lysate	BPW	Lysate											
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies																
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies		BPW	Lysate	BPW	Lysate											
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies																
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies		BPW	Lysate	BPW	Lysate											
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies																
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies		BPW	Lysate	BPW	Lysate											
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies																
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies		BPW	Lysate	BPW	Lysate											
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies																
Cp		Tm		Result		Direct streaking				Subculture SX2				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies		Typical colonies		Typical colonies		BPW	Lysate	BPW												

* Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

MILK POWDERS, INFANT FORMULA WITH OR WITHOUT PROBIOTICS (375 g test portion) - Specific protocol ⑤ - Extension No 3																																											
Year of analysis	Sample N°	Product	ISO 6579* method	Alternative method : GENE-UP <i>Salmonella</i>																										Category	Type												
			Result	BPW (1/4 dilution) + novobiocin 10mg/L for 20h at 37°C														BPW (1/4 dilution) + novobiocin 10mg/L for 20h at 37°C + 72h at 5°C ± 3C																									
				PCR			Confirmation										Final result	Agree-ment	PCR-BPW 72h			PCR-Lysate 72h			Confirmation				Final result			Agreement											
							Direct streaking				Subculture SX2				Confirmation final result	Direct streaking									Subculture SX2		Confirmation final result	BPW	Lysate			BPW	Lysate										
				6h at 41.5°C ±1.0°C															24h at 41.5°C ±1.0°C		Typical colonies		Typical colonies											Typical colonies									
				Cp	Tm	Result	Typical colonies				Typical colonies		Typical colonies			Cp			Tm	Result	Cp	Tm	Result	Direct streaking		Typical colonies								Confirmation final result	BPW	Lysate	BPW	Lysate					
																																							ChromID Salmonella		XLD	ASAP	RAPID' Salmonella
2017	7878	Skim milk powder	-	0	0	-	st	st	st	st	st	st	st	st										-	-	NA																	
2017	7879	Skim milk powder	-	0	0	-	st	st	st	st	st	st	st	st	-		-	NA																								11	a
2017	7880	Skim milk powder	-	0	0	-	st	st	st	st	st	st	st	st	-		-	NA																								11	a
2017	4492	Infant formula without probiotics	-	27.98	65.59	+	+p	+p	+p	+p	+p	+p			+		+	PD						27.3	65.7	+	27.12	65.63	+	+p	+p	+p	+p						+	+	+	PD	PD
2017	4493	Infant formula without probiotics	-	20.49	66.33	+	+p	+p	+p	+p	+p	+p			+	+	PD	19.44	66.35	+	19.71	66.27	+	+p	+p	+p	+p	+	+	+	PD	PD	11	b									
2017	4494	Infant formula without probiotics	+	0/0/0	0/0/0	-/-	st	st	st	st	+p (inoculation)	+p (inoculation)	+p (+p for 22h enrichment incubation time)	+p (+p for 22h enrichment incubation time)	+	-	ND FN(alt)	35.83	66.35	+	0/0/0	0/0/0	-/-	st	st	+p	+p	+	+	-	PA	ND FN(alt)	11	b									
2017	4495	Infant formula without probiotics	+	23.67	66.19	+	+p	+p	+p	+p	+p	+p			+	+	PA	23.55	65.85	+	23.1	66.18	+	+p	+p	+p	+p	+	+	+	PA	PA	11	b									
2017	4496	Infant formula without probiotics	+	19.78	65.97	+	+p	+p	+p	+p	+p	+p			+	+	PA	19.71	66.11	+	19.29	66.12	+	+p	+p	+p	+p	+	+	+	PA	PA	11	b									
2017	5545	Infant formula without probiotics	+	20.55	66.08	+	+p	+p	+p	+p	+p	+p			+	+	PA	20.15	66.3	+	21.76	65.99	+	+p	+p	+p	+p	+	+	+	PA	PA	11	b									
2017	5546	Infant formula without probiotics	+	20.33	66.01	+	+p	+p	+p	+p	+p	+p			+	+	PA	20.73	66.3	+	19.92	65.93	+	+p	+p	+p	+p	+	+	+	PA	PA	11	b									
2017	5547	Infant formula without probiotics	+	19.67	66.45	+	+p	+p	+p	+p	+p	+p			+	+	PA	19.97	66.53	+	20.32	66.19	+	+p	+p	+p	+p	+	+	+	PA	PA	11	b									
2017	5548	Infant formula without probiotics	+	25.74	65.84	+	+p	+p	+p	+p	+p	+p			+	+	PA	27.11	65.49	+	25.66	66.05	+	+p	+p	+p	+p	+	+	+	PA	PA	11	b									
2017	5549	Infant formula without probiotics	+	20.24	65.87	+	+p	+p	+p	+p	+p	+p			+	+	PA	21.43	66.01	+	20.17	66.09	+	+p	+p	+p	+p	+	+	+	PA	PA	11	b									
2017	7871	Infant formula without probiotics	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA															11	b										

MILK POWDERS, INFANT FORMULA WITH OR WITHOUT PROBIOTICS (375 g test portion) - Specific protocol ⑤ - Extension No 3																																						
Year of analysis	Sample N°	Product	ISO 6579♦ method	Alternative method : GENE-UP <i>Salmonella</i>																										Category	Type							
			Result	BPW (1/4 dilution) + novobiocin 10mg/L for 20h at 37°C														BPW (1/4 dilution) + novobiocin 10mg/L for 20h at 37°C + 72h at 5°C ± 3C																				
				PCR			Confirmation										Final result	Agree-ment	PCR-BPW 72h			PCR-Lysate 72h			Confirmation				Final result			Agreement						
							Direct streaking				Subculture SX2				Confirmation final result	Direct streaking									Subculture SX2		BPW	Lysate	BPW			Lysate						
				Cp	Tm	Result													Typical colonies				Typical colonies										Typical colonies		Cp	Tm	Result	Cp
							ChromID Salmonella	XLD	ASAP	RAPID' Salmonella	XLD	ASAP	XLD	ASAP		XLD			ASAP	XLD	ASAP	XLD	ASAP															
2017	7872	Infant formula without probiotics	-	0	0	-	-	-	-	-	-	-	-	-		-			NA																			
2017	7873	Infant formula without probiotics	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA																11	b				
2017	7874	Infant formula without probiotics	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA																11	b				
2017	7881	Infant formula without probiotics	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA																11	b				
2017	7882	Infant formula without probiotics	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA																11	b				
2017	7883	Infant formula without probiotics	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA																11	b				
2017	7884	Infant formula without probiotics	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA																11	b				
2017	7885	Infant formula without probiotics	-	0	0	-	-	-	-	-	st	st	-	-	-	-	NA																11	b				
2017	7886	Infant formula without probiotics	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA																11	b				
2017	4497	Infant formula with probiotics (3.2x10 ⁶ CFU/g)	-	36.42	66.04	+	+p(1)	+p(1)	st	-	+p	+p			+	+	PD	0/0/0	0/0/0	-/-/-	0/0/36.37	0/0/65.32	-/-/+	+p(1)	st	+p	+p	+	-	-	NA FN(alt)	NA FN(alt)	11	c				
2017	4498	Infant formula with probiotics (6.4x10 ⁵ CFU/g)	+	28.77	65.54	+	+p	+p	+p	+p	+p	+p			+	+	PA	28.24	65.54	+	28.49	65.51	+	+p	+p	+p	+p	+	+	+	PA	PA	11	c				
2017	4499	Infant formula with probiotics (5.2x10 ⁶ CFU/g)	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA	0	0	-	0	0	-	st	st	st	st	-	-	-	NA	NA	11	c				
2017	4500	Infant formula with probiotics (2.3x10 ⁶ CFU/g)	-	27.49	66.29	+	+p	+p	+p	+p	+p	+p			+	+	PD	26.81	66.2	+	27.09	65.75	+	+p	+p	+p	+p	+	+	+	PD	PD	11	c				

MILK POWDERS, INFANT FORMULA WITH OR WITHOUT PROBIOTICS (375 g test portion) - Specific protocol ⑤ - Extension No 3

Year of analysis	Sample N°	Product	ISO 6579♦ method	Alternative method : GENE-UP <i>Salmonella</i>																										Category	Type			
			Result	BPW (1/4 dilution) + novobiocin 10mg/L for 20h at 37°C														BPW (1/4 dilution) + novobiocin 10mg/L for 20h at 37°C + 72h at 5°C ± 3C																
				PCR			Confirmation										Final result	Agree-ment	PCR-BPW 72h			PCR-Lysate 72h			Confirmation				Final result			Agreement		
							Direct streaking				Subculture SX2				Direct streaking										Subculture SX2		Confirmation final result	BPW	Lysate			BPW	Lysate	
				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C					6h at 41.5°C ±1.0°C																							
				Cp	Tm	Result	Typical colonies				Typical colonies		Typical colonies		Cp	Tm			Result	Cp	Tm	Result	Typical colonies		Typical colonies									
ChromID Salmonella	XLD	ASAP	RAPID' Salmonella	XLD	ASAP	XLD	ASAP	XLD	ASAP	XLD	ASAP	XLD	ASAP																					
2017	4501	Infant formula with probiotics (2.0x10 ⁵ CFU/g)	+	21.77	66.31	+	+p	+p	+p	+p	+p			+	+	PA	21.32	66.29	+	21.41	65.76	+	+p	+p	+p	+p	+	+	+	PA	PA	11	c	
2017	5550	Infant formula with probiotics (2.0x10 ⁷ CFU/g)	+	19.66	66.1	+	+p	+p	+p	+p	+p			+	+	PA	20.12	66.19	+	19.48	66.27	+	+p	+p	+p	+p	+	+	+	PA	PA	11	c	
2017	5551	Infant formula with probiotics (2.4x10 ⁵ CFU/g)	+	19.64	66.05	+	+p	+p	+p	+p	+p			+	+	PA	20.44	66.07	+	19.63	66.27	+	+p	+p	+p	+p	+	+	+	PA	PA	11	c	
2017	5552	Infant formula with probiotics (3.0x10 ⁵ CFU/g)	+	19.64	66.16	+	+p	+p	+p	+p	+p			+	+	PA	20.06	66.17	+	19.83	65.98	+	+p	+p	+p	+p	+	+	+	PA	PA	11	c	
2017	5553	Infant formula with probiotics (1.4x10 ⁷ CFU/g)	+	20.02	66.16	+	+p	+p	+p	+p	+p			+	+	PA	20.5	66.15	+	19.94	66.42	+	+p	+p	+p	+p	+	+	+	PA	PA	11	c	
2017	5554	Infant formula with probiotics (1.0x10 ⁷ CFU/g)	+	20.4	65.8	+	+p	+p	+p	+p	+p			+	+	PA	21.52	65.94	+	20.54	66.05	+	+p	+p	+p	+p	+	+	+	PA	PA	11	c	
2017	5555	Infant formula with probiotics (6.7.10 ⁶ CFU/g)	+	20.52	66.13	+	+p	+p	+p	+p	+p			+	+	PA	21.03	66.25	+	20.64	66.24	+	+p	+p	+p	+p	+	+	+	PA	PA	11	c	
2017	7875	Infant formula with probiotics (<2x10 ³ CFU/g)	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA																11	c
2017	7887	Infant formula with probiotics (3.0x10 ⁵ CFU/g)	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA																11	c
2017	7888	Infant formula with probiotics (<2.0x10 ³ CFU/g)	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA																11	c
2017	7889	Infant formula with probiotics (8.0x10 ⁴ CFU/g)	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA																11	c
2017	7890	Infant formula with probiotics (<2.0x10 ³ CFU/g)	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA																11	c

MILK POWDERS, INFANT FORMULA WITH OR WITHOUT PROBIOTICS (375 g test portion) - Specific protocol ⑤ - Extension No 3																																		
Year of analysis	Sample N°	Product	ISO 6579♦ method	Alternative method : GENE-UP <i>Salmonella</i>																								Category	Type					
			Result	BPW (1/4 dilution) + novobiocin 10mg/L for 20h at 37°C													BPW (1/4 dilution) + novobiocin 10mg/L for 20h at 37°C + 72h at 5°C ± 3C																	
				PCR			Confirmation										Final result	Agree-ment	PCR-BPW 72h			PCR-Lysate 72h			Confirmation					Final result		Agreement		
							Direct streaking				Subculture SX2				Confirmation final result	Direct streaking									Subculture SX2		Confirmation final result			BPW	Lysate	BPW	Lysate	
				Typical colonies															Typical colonies		Typical colonies		Typical colonies											Typical colonies
				Cp	Tm	Result	ChromID Salmonella	XLD	ASAP	RAPID' Salmonella	XLD	ASAP	XLD	ASAP		Cp			Tm	Result	Cp	Tm	Result	XLD	ASAP	XLD								ASAP
2017	7891	Infant formula with probiotics (1.9x10 ⁵ CFU/g)	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA													11	c			
2017	7892	Infant formula with probiotics (8.6x10 ⁵ CFU/g)	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA													11	c			
2017	7893	Infant formula with probiotics (4.2x10 ⁵ CFU/g)	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA													11	c			
2017	7894	Infant formula with probiotics (8.0x10 ⁶ CFU/g)	-	0	0	-	st	st	st	st	st	st	st	st	-	-	NA													11	c			

Category 12: PET FOOD (375 g test portion) – Specific protocol ©– Extension No 4

PET FOOD (375 g test portion) – Specific protocol ©– Extension No 4																																		
Year of analysis	Sample N°	Product	ISO 6579* method	Alternative method: GENE-UP <i>Salmonella</i>																										Category	Type			
			ISO6579 Result	BPW 1/6 for 20h at 37°C														BPW 1/6 for 20h at 41.5°C + 72h 5°C ± 3°C																
				PCR			Confirmation								Final result	Agreement	PCR-BPW 72h			PCR-Lysate 72h			Confirmation				Final result		Agreement					
							Direct streaking				Subculture SX2		Confirmation final result										Direct streaking		Subculture SX2							Confirmation final result		
				Cp	Tm	Result											Typical colonies				Typical colonies						Typical colonies		Cp					Tm
							ChromID Salmonella	XLD	ASAP	RAPID' Salmonella	XLD	ASAP	XLD	ASAP									XL D	ASA P	XLD	ASAP								
2016	6458	Sausage for dog	+	23.6	66.72	+	+p	+p	+p	+p	+p	+p					+	+	PA	23.84	66.06	+	23.08	66.04	+	+p	+p			+	+	+	PA	PA
2016	6459	Sausage for dog	+	22.65	66.48	+	+p	+p	+p	+p	+p	+p			+	+	PA	24.03	65.98	+	22.17	66.38	+	+p	+p			+	+	+	PA	PA	12	a
2016	6460	Pâté for dog (poultry/carrots)	+	21.79	66.81	+	+p	+p	+p	+p	+p	+p			+	+	PA	22.81	66.25	+	21.44	66.28	+	+p	+p			+	+	+	PA	PA	12	a
2016	6461	Pâté for dog (fish/carrots)	+	23.1	66.25	+	+p	+p	+p	+p	+p	+p			+	+	PA	24.3	66.22	+	22.84	66.25	+	+p	+p			+	+	+	PA	PA	12	a
2016	6462	Pâté for cat (beef)	+	22.54	66.71	+	+p	+p	+p	+p	+p	+p			+	+	PA	21.95	65.96	+	24.19	66.05	+	+p	+p			+	+	+	PA	PA	12	a
2016	6463	Pâté for cat (salmon)	+	23.76	66.69	+	+p	+p	+p	+p	+p	+p			+	+	PA	23.78	66.13	+	23.62	66.21	+	+p	+p			+	+	+	PA	PA	12	a
2017	8575	Sausage for dog	+	21.43	56.5	+	+p	+p	+p	+p	+p	+p			+	+	PA	21.65	56.67	+	21.74	56.52	+	+p	+p			+	+	+	PA	PA	12	a
2017	8576	Sausage for dog	+	22.53	65.96	+	+p	+p	+p	+p	+p	+p			+	+	PA	22.01	66.48	+	22.44	66.38	+	+p	+p			+	+	+	PA	PA	12	a
2017	8577	Sausage for dog	+	22.46	65.88	+	+p	+p	+p	+p	+p	+p			+	+	PA	22.83	66.18	+	22.45	65.89	+	+p	+p			+	+	+	PA	PA	12	a
2017	8578	Pâté for dog (beef)	+	22.26	56.27	+	+p	+p	+p	+p	+p	+p			+	+	PA	22.88	56.65	+	22.61	56.44	+	+p	+p			+	+	+	PA	PA	12	a
2017	8579	Pâté for cat (beef)	+	21.5	65.94	+	+p	+p	+p	+p	+p	+p			+	+	PA	22.52	66.81	+	21.93	66.56	+	+p	+p			+	+	+	PA	PA	12	a
2017	8580	Pâté for cat (chicken)	+	22.33	66.09	+	+p	+p	+p	+p	+p	+p			+	+	PA	22.46	66.27	+	21.67	66.12	+	+p	+p			+	+	+	PA	PA	12	a
2017	8581	Pâté for cat (salmon)	+	22.53	56.45	+	+p	+p	+p	+p	+p	+p			+	+	PA	22.77	56.76	+	21.86	56.57	+	+p	+p			+	+	+	PA	PA	12	a
2017	8582	Pâté for dog (duck/vegetables)	+	20.85	66.54	+	+p	+p	+p	+p	+p	+p			+	+	PA	21.16	66.22	+	20.76	66.17	+	+p	+p			+	+	+	PA	PA	12	a
2017	8583	Pâté for dog (beef/carrots)	+	22.49	65.96	+	+p	+p	+p	+p	+p	+p			+	+	PA	22.56	66.01	+	21.31	65.89	+	+p	+p			+	+	+	PA	PA	12	a
2017	8584	Pâté for dog (poultry)	+	20.98	56.41	+	+p	+p	+p	+p	+p	+p			+	+	PA	21.59	56.73	+	20.67	56.61	+	+p	+p			+	+	+	PA	PA	12	a
2017	9526	Pâté for cat (beef)	-	0	0	-	-	-	st	st			st	st	-	-	NA																12	a
2017	9527	Pâté for cat (salmon)	-	0	0	-	st	-	st	st			st	st	-	-	NA																12	a
2017	9528	Pâté for cat (chicken)	-	0	0	-	st	st	st	st			st	st	-	-	NA																12	a
2017	9529	Sausage for dog	-	0	0	-	st	st	st	st			st	st	-	-	NA																12	a
2017	9573	Pâté for dog (beef)	-	0	0	-	st	st	st	st			st	st	-	-	NA																12	a
2017	9574	Pâté for dog (beef/vegetables)	-	0	0	-	st	st	st	st			st	st	-	-	NA																12	a
2017	9575	Pâté for dog (lamb/vegetables)	-	0	0	-	st	st	st	st			st	st	-	-	NA																12	a
2017	9576	Pâté for dog poultry/liver/vegetables)	-	0	0	-	st	st	st	st			st	st	-	-	NA																12	a
2017	9577	Pâté for dog (poultry)	-	0	0	-	st	st	st	st			st	st	-	-	NA																12	a
2017	9578	Pâté for cat (salmon/trout)	-	0	0	-	st	st	st	st			st	st	-	-	NA																12	a
2017	9579	Pâté for cat (rabbit/ liver/vegetables)	-	0	0	-	st	st	st	st			st	st	-	-	NA																12	a
2017	9580	Pâté for cat (poultry/kidney)	-	0	0	-	st	st	st	st			st	st	-	-	NA																12	a
2017	9581	Sausage for dog	-	0	0	-	st	st	st	st			st	st	-	-	NA																12	a
2017	9582	Sausage for dog	-	0	0	-	st	st	st	st			st	st	-	-	NA																12	a
2017	9583	Sausage for dog	-	0	0	-	-	st	st	st			st	st	-	-	NA																12	a
2016	6419	Pellets for dog (beef/vegetables)	+	23.44	66.24	+	+M	+M	+M	+M	+p	+p			+	+	PA	23.27	66.2	+	23.85	66.47	+	+M	+M			+	+	+	PA	PA	12	b
2016	6420	Pellets for dog (beef)	-	0	0	-	st	st	st	st			st	st	-	-	NA																12	b

* Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

PET FOOD (375 g test portion) – Specific protocol ©– Extension No 4																																			
Year of analysis	Sample N°	Product	ISO 6579* method	Alternative method: GENE-UP <i>Salmonella</i>																								Category	Type						
			ISO6579 Result	BPW 1/6 for 20h at 37°C												BPW 1/6 for 20h at 41.5°C + 72h 5°C ± 3°C																			
				PCR			Confirmation								Final result	Agreement	PCR-BPW 72h			PCR-Lysate 72h			Confirmation				Final result			Agreement					
							Direct streaking				Subculture SX2												Direct streaking		Subculture SX2							Confirmation final result			
				6h at 41.5°C ±1.0°C							24h at 41.5°C ±1.0°C		6h at 41.5°C± 1.0°C																						
				Cp	Tm	Result	Typical colonies				Typical colonies		Typical colonies				Cp	Tm	Result	Cp	Tm	Result	Typical colonies		Typical colonies		BPW			Lysate	BPW		Lysate		
ChromID Salmonella	XLD	ASAP	RAPID' Salmonella								XLD	ASAP	XLD	ASAP									XL D	ASA P	XLD	ASAP									
2016	6421	Pellets for dog (beef)	+	29.55	65.8	+	+m	+m	+1/2	+1/2	+M	+M			+	+	PA	29.64	66.41	+	29.91	65.77	+	+1/2	+1/2			+	+	+	PA	PA	12	b	
2016	6422	Pellets for cat (rabbit/ poultry/ vegetables/cereals)	+	0	0	-	-	-	-	-			-	-	-	-	ND	0	0	-	0	0	-	-	-			-	-	-	ND	ND	12	b	
2016	6423	Pellets for cat (salmon/tuna/vegetables)	+	28.88	65.77	+	-	+m/+	+m/+	+m/+	+M	+M			+	+	PA	27.39	66.18	+	28.51	65.58	+	+m/+	+m/+			+	+	+	PA	PA	12	b	
2016	6424	Pellets for cat (liver)	+	0	0	-	-	-	-	-			-	-	-	-	ND	0	0	-	0	0	-	-	-			-	-	-	ND	ND	12	b	
2017	8514	Bird food	-	0	0	-	-	-	-	-	-	-	-	-	-	NA																	12	b	
2017	8515	Rodent food	-	0	0	-	-	-	-	-	-	-	-	-	-	NA																	12	b	
2017	8516	Rabbit food	-	0/0/0	0/0/0	-/-/-	-	st	+(1)	st	+p	+p	+p	+p	+	-	NA FN(alt)	0	0	-	0	0	-	st	st	+p	+p	+	-	-	NA FN(alt)	NA FN(alt)	12	b	
2017	8517	Guinea pig food	-	0	0	-	-	-	-	-	-	+md/-	-	-	-	-	NA																12	b	
2017	8518	Pellets for dog	-	0	0	-	-	-	-	-	st	-	st	-	-	-	NA																	12	b
2017	8519	Pellets for dog	-	24.61	66.09	+	+p	+p	+M	+M	+p	+p	+p	+p	+	+	PD	22.91	66.08	+	23.24	65.81	+	+p	+p	+p	+p	+	+	+	PD	PD	12	b	
2017	8520	Pellets for dog (poultry, cereals, vegetables)	+	0	0	-	-	-	-	st	st	st	st	st	-	-	ND	0	0	-	0	0	-	-	-	st	-	-	-	-	ND	ND	12	b	
2017	8521	Pellets for dog	-	24.29	66.65	+	+p	+p	+p	+p	+p	+p	+p	+p	+	+	PD	23.23	66.43	+	23.07	66.14	+	+p	+p	+p	+p	+	+	+	PD	PD	12	b	
2017	8522	Pellets for cat (beef, poultry, vegetables)	+	0	0	-	-	-	-	st	st	st	st	st	-	-	ND	0	0	-	0	0	-	st	st	st	st	-	-	-	ND	ND	12	b	
2017	8523	Pellets for cat (tuna, salmon, cereals, vegetables)	+	0	0	-	-	-	-	-	-	-	-	-	-	-	ND	0	0	-	0	0	-	-	-	-	-	-	-	-	ND	ND	12	b	
2017	8524	Pellets for cat (beef, poultry, vegetables)	-	0	0	-	-	-	-	-	-	-	-	-	-	-	NA																	12	b
2017	9120	Pellets for dog (salmon/oat)	+	22.13	66.67	+	+M	+p	+p	+M	+p	+p			+	+	PA	21.71	66.28	+	20.74	66.02	+	+p	+M	+M	+M	+	+	+	PA	PA	12	b	
2017	9121	Pellets for cat (salmon/barley)	-	21.52	66.19	+	+p	+p	+p	+M	+p	+p			+	+	PD	21.76	66.08	+	21.53	65.88	+	+p	+M	+p	+p	+	+	+	PD	PD	12	b	
2017	9122	Pellets for dog (poultry/barley)	+	0	0	-	-	-	-	-	-	-			-	-	ND	0	0	-	0	0	-	-	-	-	-	-	-	-	ND	ND	12	b	
2017	9123	Pellets for dog (chicken/rice)	-	0	0	-	-	-	-	-	-	-			-	-	NA																	12	b
2017	9124	Pellets for dog (chicken/vegetables/rice)	-	0	0	-	-	-	-	-	-	-			-	-	NA																	12	b
2017	9125	Pellets for dog (beef)	-	0	0	-	-	-	-	-	-	-			-	-	NA																	12	b
2017	9523	Bird food	+	33.3	66.01	+	-	+md/+	-	+m/+	+md/+	+md/+	+m	+m	+	+	PA	32.52	65.92	+	32.84	66.16	+					+	+	+	PA	PA	12	b	
2017	9524	Rabbit food	+	36.6	56.78	+	-	-	-	+m	+md/+	+m	+m	+M	+	+	PA	0/ 37.16/ 36.58	0/ 55.51/ 56.61	- /+ /+	36.6	56.23	+					+	-	+	ND FN(alt)	PA	12	b	
2017	9525	Rodent food	-	0	0	-	-	-	-	-			-	-	-	-	NA																	12	b
2017	9595	Pellets for dog (beef)	-	0	0	-	-	st	st	st			st	st	-	-	NA																	12	b
2017	9641	Pellets for dog (beef)	-	0	0	-	-	st	st	st			st	st	-	-	NA																	12	b
2017	9642	Pellets for dog (beef)	-	0	0	-	-	st	st	st			st	st	-	-	NA																	12	b
2017	9643	Pellets for cat (chicken)	-	0	0	-	-	st	st	st			st	st	-	-	NA																	12	b

Category 12: PET FOOD (375 g test portion) – ISO protocol – Extension No 4

PET FOOD (375 g test portion) – ISO protocol – Extension No 4																																		
Year of analysis	Sample N°	Product	ISO 6579♦ method	Alternative method: GENE-UP <i>Salmonella</i>																												Category	Type	
			Result	BPW 1/10 for 20h at 37°C														BPW 1/10 for 20h at 37°C + 72h at 5°C ± 3°C																
				PCR			Confirmation								Final result	Agree-ment	PCR-BPW 72h			PCR-Lysate 72h			Confirmation				Final result		Agreement					
							Direct streaking				Subculture SX2												Confirmation final result	BPW	Lysate	BPW	Lysate							
				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C					Direct streaking		Subculture SX2																					
				Cp	Tm	Result	Typical colonies				Typical colonies		Typical colonies				Cp	Tm	Result	Cp	Tm	Result						Typical colonies		Typical colonies				
											ChromID Salmonella	XLD	ASAP	RAPID' Salmonella														XLD	ASAP	XLD	ASAP			XLD
2016	6458	Sausage for dog	+	26.44	66.04	+	+m/+	+m	+m	+m/+	+1/2	+1/2		+			+	PA	26.91	66.02	+	26.31						66	+	+m	+m/+			+
2016	6459	Sausage for dog	+	22.6	66.63	+	+p	+p	+p	+p	+p	+p		+	+	PA	23.18	66.65	+	22.21	66.59	+	+p	+p			+	+	+	PA	PA	12	a	
2016	6460	Pâté for dog (poultry/carrots)	+	22.16	66.52	+	+p	+p	+p	+p	+p	+p		+	+	PA	22.09	66.05	+	21.84	65.93	+	+p	+p			+	+	+	PA	PA	12	a	
2016	6461	Pâté for dog (fish/carrots)	+	23.8	66.61	+	+p	+p	+p	+p	+p	+p		+	+	PA	24.14	66.32	+	24.02	66.16	+	+p	+p			+	+	+	PA	PA	12	a	
2016	6462	Pâté for cat (beef)	+	22.9	66.69	+	+p	+p	+p	+p	+p	+p		+	+	PA	22.76	66.32	+	23.04	66.2	+	+p	+p			+	+	+	PA	PA	12	a	
2016	6463	Pâté for cat (salmon)	+	22.83	66.43	+	+p	+p	+p	+p	+p	+p		+	+	PA	22.88	66.13	+	22.73	66.16	+	+p	+p			+	+	+	PA	PA	12	a	
2017	8575	Sausage for dog	+	22.2	56.26	+	+p	+p	+p	+p	+p	+p		+	+	PA	22.16	56.61	+	21.86	56.44	+	+p	+p			+	+	+	PA	PA	12	a	
2017	8576	Sausage for dog	+	21.25	66.8	+	+p	+p	+p	+p	+p	+p		+	+	PA	20.13	66.87	+	20.06	66.72	+	+p	+p			+	+	+	PA	PA	12	a	
2017	8577	Sausage for dog	+	20.54	66.26	+	+p	+p	+p	+p	+p	+p		+	+	PA	20.13	66.85	+	19.87	66.13	+	+p	+p			+	+	+	PA	PA	12	a	
2017	8578	Pâté for dog (beef)	+	22.81	56.61	+	+p	+p	+p	+p	+p	+p		+	+	PA	22.51	56.67	+	22.33	56.41	+	+p	+p			+	+	+	PA	PA	12	a	
2017	8579	Pâté for cat (beef)	+	22.04	66.54	+	+p	+p	+p	+p	+p	+p		+	+	PA	21.92	66.24	+	21.78	66.19	+	+p	+p			+	+	+	PA	PA	12	a	
2017	8580	Pâté for cat (chicken)	+	21.09	66.04	+	+p	+p	+p	+p	+p	+p		+	+	PA	20.95	66.14	+	20.62	66.11	+	+p	+p			+	+	+	PA	PA	12	a	
2017	8581	Pâté for cat (salmon)	+	22.93	56.72	+	+p	+p	+p	+p	+p	+p		+	+	PA	22.52	56.69	+	22.26	56.57	+	+p	+p			+	+	+	PA	PA	12	a	
2017	8582	Pâté for dog (duck/vegetables)	+	21.01	66.29	+	+p	+p	+p	+p	+p	+p		+	+	PA	20.96	66.66	+	21.45	66.26	+	+p	+p			+	+	+	PA	PA	12	a	
2017	8583	Pâté for dog (beef/carrots)	+	23.1	66.07	+	+p	+p	+p	+p	+p	+p		+	+	PA	22.83	66.03	+	22.77	65.92	+	+p	+p			+	+	+	PA	PA	12	a	
2017	8584	Pâté for dog (poultry)	+	21.54	56.86	+	+p	+p	+p	+p	+p	+p		+	+	PA	20.97	56.97	+	20.84	56.76	+	+p	+m			+	+	+	PA	PA	12	a	
2017	9526	Pâté for cat (beef)	-	0	0	-	st	st	st	st		st	st	-	-	NA																	12	a
2017	9527	Pâté for cat (salmon)	-	0	0	-	-	-	-	st		st	st	-	-	NA																	12	a
2017	9528	Pâté for cat (chicken)	-	0	0	-	st	st	st	st		st	st	-	-	NA																	12	a
2017	9529	Sausage for dog	-	0	0	-	st	st	st	st		st	st	-	-	NA																	12	a
2017	9573	Pâté for dog (beef)	-	0	0	-	st	st	st	st		st	st	-	-	NA																	12	a
2017	9574	Pâté for dog (beef/vegetables)	-	0	0	-	st	st	st	st		st	st	-	-	NA																	12	a
2017	9575	Pâté for dog (lamb/vegetables)	-	0	0	-	st	st	st	st		st	st	-	-	NA																	12	a
2017	9576	Pâté for dog (poultry /liver/vegetables)	-	0	0	-	st	st	st	st		st	st	-	-	NA																	12	a
2017	9577	Pâté for dog (poultry)	-	0	0	-	st	st	st	st		st	st	-	-	NA																	12	a
2017	9578	Pâté for cat (salmon/trout)	-	0	0	-	st	st	st	st		st	st	-	-	NA																	12	a
2017	9579	Pâté for cat (rabbit /liver/vegetables)	-	0	0	-	st	st	st	st		st	st	-	-	NA																	12	a
2017	9580	Pâté for cat (poultry/kidney)	-	0	0	-	st	st	st	st		st	st	-	-	NA																	12	a
2017	9581	Sausage for dog	-	0	0	-	st	st	st	st		st	st	-	-	NA																	12	a
2017	9582	Sausage for dog	-	0	0	-	st	st	st	st		st	st	-	-	NA																	12	a
2017	9583	Sausage for dog	-	0	0	-	-	st	st	st		st	st	-	-	NA																	12	a

♦ Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

PET FOOD (375 g test portion) – ISO protocol – Extension No 4																																													
Year of analysis	Sample N°	Product	ISO 6579* method	Alternative method: GENE-UP <i>Salmonella</i>																										Category	Type														
			Result	BPW 1/10 for 20h at 37°C													BPW 1/10 for 20h at 37°C + 72h at 5°C ± 3°C																												
				PCR			Confirmation								Final result	Agree-ment	PCR-BPW 72h			PCR-Lysate 72h			Confirmation				Final result		Agreement																
							Direct streaking				Subculture SX2												Confirmation final result	Direct streaking	Subculture SX2		BPW	Lysate	BPW			Lysate													
				6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C					6h at 41.5°C ±1.0°C																																		
				Cp	Tm	Result	Typical colonies				Typical colonies		Typical colonies												Confirmation final result	Cp							Tm	Result	Cp	Tm	Result	Typical colonies		Typical colonies		Confirmation final result	BPW	Lysate	BPW
											ChromID <i>Salmonella</i>	XLD	ASAP	RAPID' <i>Salmonella</i>			XLD	ASAP	XLD	ASAP	XLD	ASAP																							
2016	6419	Pellets for dog (beef/vegetables)	+	23.08	66.45	+	+M	+M	+M	+M	+M			+			+	PA	24.11	66.76	+	23.53	66.57	+			+M	+M			+	+						+	PA	PA	12				
2016	6420	Pellets for dog (beef)	-	0	0	-	-	-	-	-	-	-	-	-	-	NA																							12	b					
2016	6421	Pellets for dog (beef)	+	30.3	66.09	+	-	+md/+	+m	+1/2	+M	+M			+	+	PA	29.99	65.94	+	30.25	65.91	+	+m/+	+m/+			+	+	+	PA	PA	12	b											
2016	6422	Pellets for cat (rabbit/poultry/vegetables/cereals)	+	28.13	65.97	+	-	+m/+	+md	+1/2	+M	+M			+	+	PA	27.87	66.56	+	28.48	66.59	+	+md/+	+md/+			+	+	+	PA	PA	12	b											
2016	6423	Pellets for cat (salmon/ tuna/ vegetables)	+	24.87	66.03	+	+m	+1/2	+1/2	+1/2	+M	+M			+	+	PA	24.57	66.35	+	24.83	66.45	+	+1/2	+1/2			+	+	+	PA	PA	12	b											
2016	6424	Pellets for cat (liver)	+	24.95	66.06	+	+1/2	+M	+M	+M	+M	+M			+	+	PA	25.99	66.39	+	25.28	66.48	+	+M	+M			+	+	+	PA	PA	12	b											
2017	8514	Bird food	-	0	0	-	-	-	-	-	-	-	-	-	-	NA																12	b												
2017	8515	Rodent food	-	0	0	-	-	-	-	-	-	-	-	-	-	NA																12	b												
2017	8516	Rabbit food	-	0	0	-	st	st	st	st	st	st	st	-	-	NA	0	0	-	0	0	-	st	st	st	st	-	-	-	NA	NA	12	b												
2017	8517	Guinea pig food	-	0	0	-	-	-	-	-	+md/-	-	-	-	-	NA																12	b												
2017	8518	Pellets for dog	-	0	0	-	-	-	-	-	st	st	st	st	-	-	NA															12	b												
2017	8519	Pellets for dog	-	0	0	-	-	-	-	-	-	-	-	-	-	NA	0	0	-	0	0	-	-	-	-	-	-	-	-	NA	NA	12	b												
2017	8520	Pellets for dog (poultry, cereals, vegetables)	+	24.61	65.97	+	+p	+p	+p	+p	+p	+p	+p	+	+	PA	24.17	65.8	+	24.12	65.85	+	+p	+p	+p	+p	+	+	+	PA	PA	12	b												
2017	8521	Pellets for dog	-	0	0	-	-	-	-	st	st	st	st	st	-	-	NA	0	0	-	0	0	-	-	-	-	-	-	-	-	NA	NA	12	b											
2017	8522	Pellets for cat (beef, poultry, vegetables)	+	22.94	66.26	+	+M	+p	+M	+p	+p	+p	+p	+	+	PA	22.72	66.29	+	22.64	65.88	+	+p	+p	+p	+p	+	+	+	PA	PA	12	b												
2017	8523	Pellets for cat (tuna, salmon, cereals, vegetables)	+	26.11	66.32	+	+M	+p	+M	+p	+p	+p	+p	+	+	PA	25.85	65.8	+	25.98	65.92	+	+p	+p	+p	+p	+	+	+	PA	PA	12	b												
2017	8524	Pellets for cat (beef, poultry, vegetables)	-	0	0	-	-	-	-	-	-	-	-	-	-	NA																12	b												
2017	9118	Pellets for dog (poultry/rice/cereals)	+	23.57	66.49	+	+p	+p	+p	+p	+p	+p	+p	+	+	PA	23.54	66.05	+	22.93	66.3	+	+p	+M	+p	+p	+	+	+	PA	PA	12	b												
2017	9119	Pellets for cat (poultry/vegetables/milk)	-	0	0	-	-	-	-	-	-	-	-	-	-	NA																12	b												
2017	9120	Pellets for dog (salmon/oat)	+	29.07	65.85	+	+p	+M	+M	+1/2	+p	+p	+p	+p	+	+	PA	29.59	65.6	+	29.64	65.63	+	+M	+m	+p	+p	+	+	+	PA	PA	12	b											
2017	9121	Pellets for cat (salmon/barley)	-	0	0	-	-	-	-	-	-	-	-	-	-	NA																12	b												
2017	9122	Pellets for dog (poultry/barley)	+	22.33	66.26	+	+1/2	+M	+M	+M	+p	+p	+p	+p	+	+	PA	22.47	66.39	+	22.06	65.68	+	+M	+M	+M	+p	+	+	+	PA	PA	12	b											
2017	9123	Pellets for dog (chicken/rice)	-	0	0	-	-	-	-	-	-	-	-	-	-	NA																12	b												
2017	9124	Pellets for dog (chicken/vegetables/rice)	-	0	0	-	-	-	-	-	-	-	-	-	-	NA																12	b												
2017	9125	Pellets for dog (beef)	-	0	0	-	-	-	-	-	-	-	-	-	-	NA																12	b												
2017	9521	Rabbit food	+	36.38	66	+	+m	+m	+m	+m	+m	+m		+	+	PA	35.45	66.04	+	0	0	-					+	+	-	PA	ND FN(alt)	12	b												
2017	9522	Guinea pig food	+	0/0/ 35.58	0/0/ 66.15	-/-/+	-	-	-	-			-	-	(ref+)	-	ND FN(alt)	0/0/0	0/0/0	-/-/-	0/0/0	0/0/0	-/-/-					+	-	-	ND FN(alt)	ND FN(alt)	12	b											

PET FOOD (375 g test portion) – ISO protocol – Extension No 4																																		
Year of analysis	Sample N°	Product	ISO 6579* method	Alternative method: GENE-UP <i>Salmonella</i>																								Category	Type					
			Result	BPW 1/10 for 20h at 37°C												BPW 1/10 for 20h at 37°C + 72h at 5°C ± 3°C																		
				PCR			Confirmation								Final result	Agree-ment	PCR-BPW 72h			PCR-Lysate 72h			Confirmation				Final result			Agreement				
							Direct streaking				Subculture SX2												Confirmation final result	BPW	Lysate	BPW	Lysate							
				Typical colonies							6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C				Direct streaking	Subculture SX2																
				Cp	Tm	Result	Typical colonies				Typical colonies		Typical colonies					6h at 41.5°C ±1.0°C	Typical colonies															
							ChromID Salmonella	XLD	ASAP	RAPID' Salmonella	XLD	ASAP	XLD	ASAP					XLD	ASAP	XLD	ASAP												
2017	9523	Bird food	+	32.72	66.19	+	-	-	+md/+	-	+m/+	+m	+m	+					+	PA	32.23	65.78						+	33	66.21	+			
2017	9524	Rabbit food	+	0/0/0	0/0/0	-/-/-	-	-	-	-			+m	+m	+	-	ND FN(alt)		0/0/0	0/0/0	-/-/-	0/0/0	0/0/0	-/-/-					+	-	-	ND FN(alt)	ND FN(alt)	12
2017	9525	Rodent food	-	0	0	-	-	-	-	-			-	-	-	-	NA																12	b
2017	9595	Pellets for dog (beef)	-	0	0	-	-	-	-	-			st	st	-	-	NA																12	b
2017	9622	Pellets for cat (tuna, salmon, cereals, vegetables)	+	21.6	66.73	+	+M	+p	+p	+M	+p	+p			+	+	PA	21.68	66.49	+	21.14	66.07	+	+p	+p			+	+	+	PA	PA	12	b
2017	9623	Pellets for dog (beef)	+	21.78	56.47	+	+p	+p	+p	+p	+p	+p			+	+	PA	21.83	56.34	+	21.5	56.16	+	+p	+p			+	+	+	PA	PA	12	b

Category 13: MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITHOUT PROBIOTICS including ingredients (25 g test portion) – Standard protocol – Extension No 5

MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITHOUT PROBIOTICS including ingredients (25 g test portion) – Standard protocol – Extension No 5																																		
Year of analyse	Sample N°	Product	ISO 6579* method	Alternative method : GENE-UP <i>Salmonella</i>																										Category	Type			
			Result	BPW for 18h at 37°C														Storage for 72h at 5°C ± 3°C																
				PCR			Confirmation								Final result	Agree-ment	PCR-BPW 72h			PCR-Lysate 72h			Confirmation				Final result		Agreement					
				Cp	Tm	Result	Direct streaking			Subculture SX2				Confirmation final result			ISO 6579 (Milk powders) on negative samples	Cp	Tm	Result	Cp	Tm	Result	Direct streaking		Subculture SX2		Confirmation final result	BPW			Lysate	BPW	Lysate
										6h at 41.5°C± 1.0°C		24h at 41.5°C± 1.0°C														6h at 41.5°C± 1.0°C								
							Typical colonies			Typical colonies		Typical colonies												Typical colonies		Typical colonies								
ChromID <i>Salmonella</i>	XLD	ASAP	XLD				ASAP	XLD	ASAP	Confirmation final result	ISO 6579 (Milk powders) on negative samples	Cp	Tm											Result	Cp	Tm	Result			XLD	ASAP			
2018	4643	Skim milk powder	+	19.82	66.11	+	+p	+p	+p	+p			+	/	+	PA	22.02	66.12	+	21.48	66.12	+	+p	+p	+p	+p	+	+	+	PA	PA	13	a	
2018	4644	Skim milk powder	+	33.79	65.6	+	+p	+p	+p	+p			+	/	+	PA	33.81	66.03	+	33.66	65.64	+	+p	+p	+p	+p	+	+	+	PA	PA	13	a	
2018	4645	Skim milk powder	+	21.99	65.8	+	+p	+p	+p	+p			+	/	+	PA	22.75	66.17	+	23.79	66	+	+p	+p	+p	+p	+	+	+	PA	PA	13	a	
2018	4646	Skim milk powder	+	22.72	66.04	+	+p	+p	+p	+p			+	/	+	PA	22.58	65.92	+	23.5	66.03	+	+p	+p	+p	+p	+	+	+	PA	PA	13	a	
2018	4647	Whole milk powder	+	22.5	56.25	+	+p	+p	+p	+p			+	/	+	PA	22.63	56.31	+	23	56.24	+	+p	+p	+p	+p	+	+	+	PA	PA	13	a	
2018	4648	Skim milk powder	+	25.73	56.08	+	+p	+p	+p	+p			+	/	+	PA	23.91	56.17	+	26.24	56.27	+	+p	+p	+p	+p	+	+	+	PA	PA	13	a	
2018	4673	Infant formula without probiotics	+	20	66.04	+	+p	+p	+p	+p			+	/	+	PA	20.52	66.5	+	24.12	64.96	+	+p	+p	+p	+p	+	+	-	PA	ND FN(alt)	13	a	
2018	4674	Infant formula without probiotics	-	0	0	-	st	st	st		st	st	-	-	-	NA																13	a	
2018	4675	Infant formula without probiotics	+	22.17	66.1	+	+p	+p	+p	+p			+	/	+	PA	23.53	66.46	+	24.12	66.36	+	+p	+p	+p	+p	+	+	+	PA	PA	13	a	
2018	4676	Infant formula without probiotics	+	20.21	65.9	+	+p	+p	+p	+p			+	/	+	PA	20.79	66.29	+	23.17	66.6	+	+p	+p	+p	+p	+	+	+	PA	PA	13	a	
2018	4677	Infant formula without probiotics	+	30.02	56.21	+	+p	+p	+p	+p			+	/	+	PA	29.98 31.27/ 31.08 (new extraction)	56.46 55.84/ 56.25 (new extraction)	+	31.28	56.67	+	st x 5	st x 5	st x 5 (6h and 24h)	st x 5 (6h and 24h)	-(MSRV 5 x -)	-	-	PA FP(alt)	PA FP(alt)	13	a	
2018	4678	Infant formula without probiotics	-	0	0	-	st	st	st		st	st	-	-	-	NA																13	a	
2018	6098	Whole milk powder	-	0	0	-	-	st	st		st	st	-	-	-	NA																13	a	
2018	6099	Skim milk powder	-	0	0	-	st	st	st		st	st	-	-	-	NA																13	a	
2018	6100	Milk powder	-	0	0	-	st	st	st		st	st	-	-	-	NA																13	a	
2018	6101	Skim milk powder	-	0	0	-	st	st	st		st	st	-	-	-	NA																13	a	
2018	6102	Skim milk powder	-	0	0	-	st	st	st		st	st	-	-	-	NA																13	a	
2018	6114	Infant formula without probiotics	-	0	0	-	st	st	st		st	st	-	-	-	NA																13	a	
2018	6115	Infant formula without probiotics	-	0	0	-	st	st	st		st	st	-	-	-	NA																13	a	
2018	6116	Infant formula without probiotics	-	0	0	-	st	st	st		st	st	-	-	-	NA																13	a	
2018	4649	Infant cereals without probiotics	-	0	0	-	st	st	st		st	st	-	/	-	NA																13	b	
2018	4650	Infant cereals without probiotics	+	22.97	66.17	+	+p	+p	+p	+p			+	/	+	PA	23.07	66.1	+	23.28	65.9	+	+p	+p	+p	+p	+	+	+	PA	PA	13	b	

* Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITHOUT PROBIOTICS including ingredients (25 g test portion) – Standard protocol – Extension No 5

Year of analyse	Sample N°	Product	ISO 6579♦ method	Alternative method : GENE-UP <i>Salmonella</i>																										Category	Type			
			Result	BPW for 18h at 37°C														Storage for 72h at 5°C ± 3°C																
				PCR			Confirmation								Final result	Agree-ment	PCR-BPW 72h			PCR-Lysate 72h			Confirmation				Final result		Agreement					
				Cp	Tm	Result	Direct streaking			Subculture SX2				Confirmation final result			ISO 6579 (Milk powders) on negative samples	Cp	Tm	Result	Cp	Tm	Result	Direct streaking		Subculture SX2		Confirmation final result	BPW			Lysate	BPW	Lysate
										6h at 41.5°C± 1.0°C		24h at 41.5°C± 1.0°C														6h at 41.5°C± 1.0°C								
							Typical colonies			Typical colonies		Typical colonies												Typical colonies		Typical colonies								
ChromID Salmonella	XLD	ASAP	XLD				ASAP	XLD	ASAP	XLD	ASAP	Confirmation final result	ISO 6579 (Milk powders) on negative samples											Final result	Agree-ment	Cp	Tm			Result	Cp			
2018	4651	Infant cereals without probiotics	+	20.61	66.11	+	+p	+p	+p	+p	+p		+	/	+	PA	21.16	66.31	+	20.78	66.16	+	+p	+p	+p	+p	+	+	+	PA	PA	13	b	
2018	4652	Infant cereals without probiotics	+	20.63	65.71	+	+p	+p	+p	+p	+p		+	/	+	PA	21.8	66.31	+	20.73	66.36	+	+p	+p	+p	+p	+	+	+	PA	PA	13	b	
2018	4653	Infant cereals without probiotics	+	25.82	65.76	+	+p	+p	+p	+p	+p		+	/	+	PA	26.68	66.22	+	25.72	66.09	+	+p	+p	+p	+p	+	+	+	PA	PA	13	b	
2018	4654	Infant cereals without probiotics	+	22.83	65.79	+	+p	+p	+p	+p	+p		+	/	+	PA	23.69	66.15	+	22.95	66.18	+	+p	+p	+p	+p	+	+	+	PA	PA	13	b	
2018	4655	Infant cereals without probiotics	+	22.3	65.77	+	+p	+p	+p	+p	+p		+	/	+	PA	22.28	66.04	+	21.27	66.11	+	+p	+p	+p	+p	+	+	+	PA	PA	13	b	
2018	4656	Infant cereals without probiotics	+	22.94	65.67	+	+p	+p	+p	+p	+p		+	/	+	PA	24.08	66.17	+	22.42	65.99	+	+p	+p	+p	+p	+	+	+	PA	PA	13	b	
2018	4657	Infant cereals without probiotics	+	20.08	65.61	+	+p	+p	+p	+p	+p		+	/	+	PA	21.25	66.08	+	20.29	66.14	+	+p	+p	+p	+p	+	+	+	PA	PA	13	b	
2018	4658	Infant cereals without probiotics	+	23.84	65.97	+	+p	+p	+p	+p	+p		+	/	+	PA	23.57	66.12	+	23.5	65.9	+	+p	+p	+p	+p	+	+	+	PA	PA	13	b	
2018	4659	Infant cereals without probiotics	+	20.85	65.67	+	+p	+p	+p	+p	+p		+	/	+	PA	23.3	66.46	+	22.52	66.33	+	+p	+p	+p	+p	+	+	+	PA	PA	13	b	
2018	4660	Infant cereals without probiotics	+	24.87	65.97	+	+p	+p	+p	+p	+p		+	/	+	PA	25.94	66.09	+	21.7	65.57	+	+p	+p	+p	+p	+	+	+	PA	PA	13	b	
2018	6103	Infant cereals without probiotics	-	0	0	-	st	st	st			st	st	-	/	-	NA															13	b	
2018	6104	Infant cereals without probiotics	-	0	0	-	-	-	-			st	-	-	/	-	NA															13	b	
2018	6105	Infant cereals without probiotics	-	0	0	-	st	st	st			st	st	-	/	-	NA															13	b	
2018	6117	Infant cereals without probiotics	-	0	0	-	st	st	st			st	st	-	/	-	NA															13	b	
2018	6118	Infant cereals without probiotics	-	0	0	-	st	st	st			st	st	-	/	-	NA															13	b	
2018	6119	Infant cereals without probiotics	-	0	0	-	st	st	st			st	st	-	/	-	NA															13	b	
2018	6120	Infant cereals without probiotics	-	0	0	-	-	-	-			-	-	-	/	-	NA															13	b	
2018	6121	Infant cereals without probiotics	-	0	0	-	-	st	st			st	st	-	/	-	NA															13	b	
2018	6122	Infant cereals without probiotics	-	0	0	-	-	-	-			st	st	-	/	-	NA															13	b	
2018	4661	Maltodextrin	+	22.04	66.18	+	+p	+p	+p	+p	+p			+	/	+	PA	23.42	66.23	+	22.92	66.17	+	+p	+p	+p	+p	+	+	+	PA	PA	13	c
2018	4662	Maltodextrin	+	22.24	66.07	+	+p	+p	+p	+p	+p			+	/	+	PA	23.58	66.19	+	21.65	66.08	+	+p	+p	+p	+p	+	+	+	PA	PA	13	c
2018	4663	Maltodextrin	+	21.74	66.1	+	+p	+p	+p	+p	+p			+	/	+	PA	22.16	66.17	+	21.93	66.16	+	+p	+p	+p	+p	+	+	+	PA	PA	13	c
2018	4664	Starch	-	0	0	-	st	st	st			st	st	-	/	-	NA															13	c	

MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITHOUT PROBIOTICS including ingredients (25 g test portion) – Standard protocol – Extension No 5																																		
Year of analyse	Sample N°	Product	ISO 6579* method	Alternative method : GENE-UP <i>Salmonella</i>																												Category	Type	
			Result	BPW for 18h at 37°C														Storage for 72h at 5°C ± 3°C																
				PCR			Confirmation								Final result	Agree-ment	PCR-BPW 72h			PCR-Lysate 72h			Confirmation				Final result		Agreement					
				Cp	Tm	Result	Direct streaking			Subculture SX2				Confirmation final result			ISO 6579 (Milk powders) on negative samples	Cp	Tm	Result	Cp	Tm	Result	Direct streaking	Subculture SX2		Confirmation final result	BPW	Lysate	BPW	Lysate			
										6h at 41.5°C± 1.0°C		24h at 41.5°C± 1.0°C													6h at 41.5°C± 1.0°C									
							Typical colonies			Typical colonies		Typical colonies													Typical colonies									Typical colonies
ChromID Salmonella	XLD	ASAP	XLD				ASAP	XLD	ASAP	Confirmation final result	ISO 6579 (Milk powders) on negative samples	Final result	Agree-ment												Cp	Tm						Result	Cp	Tm
2018	4665	Starch	+	30.23	65.87	+	+p	+p	+p	+p	+p			+	/	+	PA	26.07	66.15	+	22.43	66.24	+	+p	+p	+p	+p	+	+	+	PA	PA	13	c
2018	4666	Starch	-	0	0	-	-	st	st			st	st	-	/	-	NA																13	c
2018	4667	Caseinate	+	21.91	65.82	+	+p	+p	+p	+p	+p			+	/	+	PA	22.17	65.69	+	21.17	64.93	+	+p	+p	+p	+p	+	+	+	PA	PA	13	c
2018	4668	Caseinate	+	22.91	65.63	+	+p	+p	+p	+p	+p			+	/	+	PA	22.56	65.49	+	22.98	65.61	+	+p	+p	+p	+p	+	+	+	PA	PA	13	c
2018	4669	Lactose	+	20.9	66.06	+	+p	+p	+p	+p	+p			+	/	+	PA	21.21	66.45	+	21.8	66.28	+	+p	+p	+p	+p	+	+	+	PA	PA	13	c
2018	4670	Lactose	+	21.86	65.7	+	+p	+p	+p	+p	+p			+	/	+	PA	21.64	65.86	+	21.92	66.04	+	+p	+p	+p	+p	+	+	+	PA	PA	13	c
2018	4671	Whey	+	22.07	65.89	+	+p	+p	+p	+p	+p			+	/	+	PA	21.87	66.39	+	29.18	66.17	+	+p	+p	+p	+p	+	+	+	PA	PA	13	c
2018	4672	Whey	+	28.66	66	+	+p	+p	+p	+p	+p			+	/	+	PA	28.27	66.15	+	20.71	66.35	+	+p	+p	+p	+p	+	+	+	PA	PA	13	c
2018	6106	Maltodextrin	-	0	0	-	st	st	st			st	st	-	-	-	NA																13	c
2018	6107	Starch	-	0	0	-	-	-	-			st	-	-	/	-	NA																13	c
2018	6108	Lactose	-	0	0	-	st	st	st			st	st	-	-	-	NA																13	c
2018	6109	Starch	-	0	0	-	st	st	st			st	st	-	/	-	NA																13	c
2018	6110	Starch	-	0	0	-	st	st	st			st	st	-	/	-	NA																13	c
2018	6111	Caseinate	-	0	0	-	-	st	st			st	st	-	-	-	NA																13	c
2018	6112	Whey	-	0	0	-	st	st	st			st	st	-	-	-	NA																13	c
2018	6113	Whey	-	0	0	-	st	st	st			st	st	-	-	-	NA																13	c

Category 14: INFANT FORMULA AND INFANT CEREALS WITH PROBIOTICS (25 g test portion) – Specific protocol ⑦ – Extension No 5

INFANT FORMULA AND INFANT CEREALS WITH PROBIOTICS (25 g test portion) – Specific protocol ⑦ – Extension No 5																																												
Year of analyse	Sample N°	Product	ISO 6579* method	Alternative method : GENE-UP <i>Salmonella</i>																										Category	Type													
			Result	BPW + Novobiocin (10mg/L) for 18h at 37°C														Storage for 72h at 5°C ± 3°C																										
				PCR			Confirmation										Final result h	Agree-ment	PCR-BPW 72h			PCR-Lysate 72h			Confirmation				Final result			Agreement												
				Cp	Tm	Result	Direct streaking			Subculture SX2				Confirmation final result	ISO 6579 (Milk powders) on negative samples	Cp			Tm	Result	Cp	Tm	Result	Direct streaking		Subculture SX2		Confirmation final result	BPW			Lysate	BPW	Lysate										
										6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C														6h at 41.5°C ±1.0°C																		
							Typical colonies			Typical colonies		Typical colonies												XLD	ASAP	XLD	ASAP								XLD	ASAP	XLD	ASAP	XLD	ASAP	XLD	ASAP	XLD	ASAP
ChromID Salmonella	XLD	ASAP	XLD				ASAP	XLD	ASAP	XLD	ASAP	XLD	ASAP																	XLD	ASAP													
2018	4679	Infant formula with probiotics (2.7x10 ⁵ CFU/g)	+	20.79	66.57	+	+p	+p	+p	+p	+p			+	/	+	PA	19.98	66.7	+	19.55	66.26	+	+p	+p	+p	+p	+	+	+	PA	PA	14	a										
2018	4680	Infant formula with probiotics (1.6x10 ⁵ CFU/g)	+	20.93	66.3	+	+p	+p	+p	+p	+p			+	/	+	PA	20.49	66.4	+	19.71	66.14	+	+p	+p	+p	+p	+	+	+	PA	PA	14	a										
2018	4681	Infant formula with probiotics (1.8x10 ⁴ CFU/g)	+	20.89	56.76	+	+p	+p	+p	+p	+p			+	/	+	PA	20.46	56.86	+	19.98	56.66	+	+p	+p	+p	+p	+	+	+	PA	PA	14	a										
2018	4682	Infant formula with probiotics (6.7x10 ³ CFU/g)	+	21.56	66.59	+	+p	+p	+p	+p	+p			+	/	+	PA	20.49	66.5	+	20.22	66.08	+	+p	+p	+p	+p	+	+	+	PA	PA	14	a										
2018	4683	Infant formula with probiotics (1.9x10 ⁴ CFU/g)	+	21.07	66.48	+	+p	+p	+p	+p	+p			+	/	+	PA	20.23	66.33	+	20.42	66.13	+	+p	+p	+p	+p	+	+	+	PA	PA	14	a										
2018	4684	Infant formula with probiotics (4.6x10 ³ CFU/g)	+	20.56	66.52	+	+p	+p	+p	+p	+p			+	/	+	PA	19.42	66.3	+	19.42	66.26	+	+p	+p	+p	+p	+	+	+	PA	PA	14	a										
2018	4685	Infant formula with probiotics (2.1x10 ⁴ CFU/g)	+	22.64	56.62	+	+p	+p	+p	+p	+p			+	/	+	PA	21.01	54.06	+	22.1	56.42	+	+p	+p	+p	+p	+	+	+	PA	PA	14	a										
2018	4686	Infant formula with probiotics (1.8x10 ⁴ CFU/g)	+	21.86	56.82	+	+p	+p	+p	+p	+p			+	/	+	PA	20.17	56.68	+	20.11	56.56	+	+p	+p	+p	+p	+	+	+	PA	PA	14	a										
2018	4687	Infant formula with probiotics (6.8x10 ⁵ CFU/g)	+	20.28	66.59	+	+p	+p	+p	+p	+p			+	/	+	PA	19.5	66.17	+	19.71	66.28	+	+p	+p	+p	+p	+	+	+	PA	PA	14	a										
2018	4688	Infant formula with probiotics (7.0x10 ⁵ CFU/g)	+	19.58	66.19	+	+p	+p	+p	+p	+p			+	/	+	PA	19.78	66.04	+	19.84	66.13	+	+p	+p	+p	+p	+	+	+	PA	PA	14	a										
2018	4689	Infant formula with probiotics (3.2x10 ⁶ CFU/g)	+	20.45	66.37	+	+p	+p	+p	+p	+p			+	/	+	PA	20.11	66.2	+	19.75	66.25	+	+p	+p	+p	+p	+	+	+	PA	PA	14	a										
2018	4690	Infant formula with probiotics (3.0x10 ⁵ CFU/g)	+	19.98	66.23	+	+p	+p	+p	+p	+p			+	/	+	PA	19.9	66.13	+	19.8	66.2	+	+p	+p	+p	+p	+	+	+	PA	PA	14	a										

* Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

INFANT FORMULA AND INFANT CEREALS WITH PROBIOTICS (25 g test portion) – Specific protocol ⑦ – Extension No 5																																		
Year of analyse	Sample N°	Product	ISO 6579+ method	Alternative method : GENE-UP <i>Salmonella</i>																										Category	Type			
			Result	BPW + Novobiocin (10mg/L) for 18h at 37°C														Storage for 72h at 5°C ± 3°C																
				PCR			Confirmation										Final result h	Agree-ment	PCR-BPW 72h			PCR-Lysate 72h			Confirmation				Final result			Agreement		
				Cp	Tm	Result	Direct streaking			Subculture SX2				Confirmation final result	ISO 6579 (Milk powders) on negative samples	Cp			Tm	Result	Cp	Tm	Result	Direct streaking	Subculture SX2		Confirmation final result	BPW	Lysate			BPW	Lysate	
										6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C													6h at 41.5°C ±1.0°C									
							Typical colonies			Typical colonies		Typical colonies													XLD	ASAP								XLD
ChromID Salmonella	XLD	ASAP	XLD	ASAP	XLD	ASAP	XLD	ASAP																										
2018	4691	Infant formula with probiotics (3.0x10 ⁴ CFU/g)	+	20.3	66.32	+	+p	+p	+p	+p	+p			+	/	+	PA	19.63	66.12	+	19.63	66.17	+	+p	+p	+p	+p	+	+	+	PA	PA	14	a
2018	4692	Infant formula with probiotics (1.6x10 ⁶ CFU/g)	+	20.21	66.28	+	+p	+p	+p	+p	+p			+	/	+	PA	19.56	66.1	+	19.65	66.13	+	+p	+p	+p	+p	+	+	+	PA	PA	14	a
2018	4693	Infant formula with probiotics (6.0x10 ⁴ CFU/g)	-	20.08	66.13	+	+p	+p	+p	+p	+p			+	/	+	PD	19.96	66.01	+	19.3	66.01	+	+p	+p	+p	+p	+	+	+	PD	PD	14	a
2018	4694	Infant formula with probiotics (1.4x10 ⁴ CFU/g)	+	20.3	66.47	+	+p	+p	+p	+p	+p			+	/	+	PA	19.85	66.25	+	19.5	66.28	+	+p	+p	+p	+p	+	+	+	PA	PA	14	a
2018	4695	Infant formula with probiotics (2.5x10 ⁵ CFU/g)	+	19.96	66.44	+	+p	+p	+p	+p	+p			+	/	+	PA	20.07	66.17	+	19.83	66.35	+	+p	+p	+p	+p	+	+	+	PA	PA	14	a
2018	4696	Infant cereals with probiotics (8.8x10 ⁴ CFU/g)	+	21.58	65.29	+	+p	+p	+p	+p	+p			+	/	+	PA	22.51	65.81	+	21.89	65.69	+	+p	+p	+p	+p	+	+	+	PA	PA	14	b
2018	4697	Infant cereals with probiotics (2.5x10 ⁵ CFU/g)	-	22.48	65.57	+	+p	+p	+p	+p	+p			+	/	+	PD	22.04	65.58	+	21.94	65.57	+	+p	+p	+p	+p	+	+	+	PD	PD	14	b
2018	4698	Infant cereals with probiotics (1.1x10 ⁵ CFU/g)	+	30.84	65.72	+	+p	+p	+p	+p	+p			+	/	+	PA	25.55	66.05	+	28.88	65.63	+	+p	+p	+p	+p	+	+	+	PA	PA	14	b
2018	4699	Infant cereals with probiotics (2.1x10 ⁴ CFU/g)	+	38.42	65.8	+	+p	+p	+p	+p	+p			+	/	+	PA	26.65	65.7	+	32.47	65.35	+	+p	+p	+p	+p	+	+	+	PA	PA	14	b
2018	4700	Infant cereals with probiotics (6.7x10 ⁵ CFU/g)	+	24.24	66.11	+	+p	+p	+p	+p	+p			+	/	+	PA	21.25	65.56	+	22.81	65.46	+	+p	+p	+p	+p	+	+	+	PA	PA	14	b
2018	4701	Infant cereals with probiotics (5.6x10 ⁵ CFU/g)	+	22.02	66.14	+	+p	+p	+p	+p	+p			+	/	+	PA	21.49	65.8	+	21.82	65.65	+	+p	+p	+p	+p	+	+	+	PA	PA	14	b
2018	4702	Infant cereals with probiotics (7.8x10 ⁵ CFU/g)	+	22.8	65.91	+	+p	+p	+p	+p	+p			+	/	+	PA	22.59	66.09	+	22	65.32	+	+p	+p	+p	+p	+	+	+	PA	PA	14	b
2018	4703	Infant cereals with probiotics (1.3x10 ⁴ CFU/g)	+	21.74	66.3	+	+p	+p	+p	+p	+p			+	/	+	PA	22.17	65.92	+	21.53	65.83	+	+p	+p	+p	+p	+	+	+	PA	PA	14	b
2018	4704	Infant cereals with probiotics (3.1x10 ⁴ CFU/g)	+	24.11	65.86	+	+p	+p	+p	+p	+p			+	/	+	PA	25.89	65.82	+	23.74	65.83	+	+p	+p	+p	+p	+	+	+	PA	PA	14	b

INFANT FORMULA AND INFANT CEREALS WITH PROBIOTICS (25 g test portion) – Specific protocol ⑦ – Extension No 5																																		
Year of analyse	Sample N°	Product	ISO 6579* method	Alternative method : GENE-UP <i>Salmonella</i>																										Category	Type			
			Result	BPW + Novobiocin (10mg/L) for 18h at 37°C														Storage for 72h at 5°C ± 3°C																
				PCR			Confirmation										Final result h	Agree-ment	PCR-BPW 72h			PCR-Lysate 72h			Confirmation				Final result			Agreement		
				Cp	Tm	Result	Direct streaking			Subculture SX2				Confirmation final result	ISO 6579 (Milk powders) on negative samples	Cp			Tm	Result	Cp	Tm	Result	Direct streaking	Subculture SX2		Confirmation final result	BPW	Lysate			BPW	Lysate	
										6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C													6h at 41.5°C ±1.0°C									
							Typical colonies			Typical colonies		Typical colonies													XLD	ASAP								XLD
ChromID Salmonella	XLD	ASAP	XLD	ASAP	XLD	ASAP	XLD	ASAP																										
2018	4705	Infant cereals with probiotics (3.6x10 ⁴ CFU/g)	+	21.29	65.84	+	+p	+p	+p	+p	+p			+	/	+	PA	21.62	65.92	+	20.85	65.7	+	+p	+p	+p	+p	+	+	+	PA	PA	14	b
2018	4706	Infant cereals with probiotics (4.0x10 ⁴ CFU/g)	+	21.78	65.95	+	+p	+p	+p	+p	+p			+	/	+	PA	21.58	65.79	+	21.1	65.87	+	+p	+p	+p	+p	+	+	+	PA	PA	14	b
2018	4707	Infant cereals with probiotics (8.3x10 ³ CFU/g)	+	22.65	65.82	+	+p	+p	+p	+p	+p			+	/	+	PA	22.82	66.01	+	21.99	65.65	+	+p	+p	+p	+p	+	+	+	PA	PA	14	b
2018	4708	Infant cereals with probiotics (1.6x10 ⁴ CFU/g)	-	28.87	65.58	+	+p	+p	+p	+p	+p			+	/	+	PD	28.17	65.54	+	27.13	65.58	+	+p	+p	+p	+p	+	+	+	PD	PD	14	b
2018	4709	Infant cereals with probiotics (8.0x10 ³ CFU/g)	+	23.54	65.82	+	+p	+p	+p	+p	+p			+	/	+	PA	23.56	65.68	+	23.51	65.63	+	+p	+p	+p	+p	+	+	+	PA	PA	14	b
2018	4710	Infant cereals with probiotics (3.6x10 ⁴ CFU/g)	+	0	0	-	st	st	st			st	st	-	/	-	ND	0	0	-	0	0	-	st	st			-	-	-	ND	ND	14	b
2018	4711	Infant cereals with probiotics (1.8x10 ⁴ CFU/g)	-	25.99	65.94	+	+p	+p	+p	+p	+p			+	/	+	PD	24.73	65.49	+	25.54	65.9	+	+p	+p	+p	+p	+	+	+	PD	PD	14	b
2018	4712	Infant cereals with probiotics (1.4x10 ⁴ CFU/g)	-	0	0	-	st	st	st			st	st	-	-	-	NA																14	b
2018	6123	Infant formula with probiotics (9.2x10 ⁶ CFU/g)	-	0	0	-	-	st	st			st	st	-	-	-	NA																14	a
2018	6124	Infant formula with probiotics (1.1x10 ⁶ CFU/g)	-	0	0	-	st	st	st			st	st	-	-	-	NA																14	a
2018	6125	Infant formula with probiotics (9.7x10 ⁵ CFU/g)	-	0	0	-	st	st	st			st	st	-	-	-	NA																14	a
2018	6126	Infant formula with probiotics (2.7x10 ⁶ CFU/g)	-	0	0	-	st	st	st			st	st	-	-	-	NA																14	a
2018	6127	Infant formula with probiotics (4.5x10 ⁶ CFU/g)	-	0	0	-	st	st	st			st	st	-	-	-	NA																14	a
2018	6128	Infant formula with probiotics (6.1x10 ⁶ CFU/g)	-	0	0	-	-	st	st			st	st	-	-	-	NA																14	a

INFANT FORMULA AND INFANT CEREALS WITH PROBIOTICS (25 g test portion) – Specific protocol ⑦ – Extension No 5																																	
Year of analyse	Sample N°	Product	ISO 6579* method	Alternative method : GENE-UP <i>Salmonella</i>																								Category	Type				
			Result	BPW + Novobiocin (10mg/L) for 18h at 37°C														Storage for 72h at 5°C ± 3°C															
				PCR			Confirmation								Final result h	Agree-ment	PCR-BPW 72h			PCR-Lysate 72h			Confirmation				Final result			Agreement			
				Cp	Tm	Result	Direct streaking			Subculture SX2				Confirmation final result			ISO 6579 (Milk powders) on negative samples	Cp	Tm	Result	Cp	Tm	Result	Direct streaking	Subculture SX2		Confirmation final result			BPW	Lysate	BPW	Lysate
										6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C													6h at 41.5°C ±1.0°C								
							Typical colonies			Typical colonies		Typical colonies													XLD	ASAP							
ChromID Salmonella	XLD	ASAP	XLD	ASAP	XLD	ASAP	XLD	ASAP																									
2018	6129	Infant formula with probiotics (<100 CFU/g)	-	0	0	-	st	st	st			st	st	-	-	-	NA														14	a	
2018	6130	Infant formula with probiotics (<100 CFU/g)	-	0	0	-	-	-	st			st	st	-	-	-	NA														14	a	
2018	6131	Infant formula with probiotics (9.7x10 ⁶ CFU/g)	-	0	0	-	-	st	st			st	st	-	-	-	NA														14	a	
2018	6132	Infant formula with probiotics (>100 CFU/g)	-	0	0	-	-	st	st			st	st	-	-	-	NA														14	a	
2018	6133	Infant formula with probiotics (8.5x10 ⁵ CFU/g)	-	0	0	-	st	st	st			st	st	-	-	-	NA														14	a	
2018	6134	Infant formula with probiotics (6.6x10 ⁵ CFU/g)	-	0	0	-	st	st	st			st	st	-	-	-	NA														14	a	
2018	6135	Infant formula with probiotics (8.4x10 ⁵ CFU/g)	-	0	0	-	st	st	st			st	st	-	-	-	NA														14	a	
2018	6136	Infant formula with probiotics (1.9x10 ⁶ CFU/g)	-	0	0	-	-	st	st			-	-	-	-	-	NA														14	a	
2018	6137	Infant formula with probiotics (1.3x10 ⁶ CFU/g)	-	0	0	-	st	st	st			st	st	-	-	-	NA														14	a	
2018	6138	Infant cereals with probiotics (7.0x10 ⁵ CFU/g)	-	0	0	-	st	st	st			st	st	-	/	-	NA														14	b	
2018	6139	Infant cereals with probiotics (2.3x10 ⁵ CFU/g)	-	0	0	-	st	st	st			st	st	-	/	-	NA														14	b	
2018	6140	Infant cereals with probiotics (1.6x10 ⁴ CFU/g)	-	0	0	-	st	st	st			st	st	-	/	-	NA														14	b	
2018	6141	Infant cereals with probiotics (4.9x10 ⁴ CFU/g)	-	0	0	-	st	st	st			st	st	-	/	-	NA														14	b	
2018	6142	Infant cereals with probiotics (2.7x10 ⁵ CFU/g)	-	0	0	-	st	st	st			st	st	-	/	-	NA														14	b	

INFANT FORMULA AND INFANT CEREALS WITH PROBIOTICS (25 g test portion) – Specific protocol ⑦ – Extension No 5																																		
Year of analyse	Sample N°	Product	ISO 6579* method	Alternative method : GENE-UP <i>Salmonella</i>																								Category	Type					
			Result	BPW + Novobiocin (10mg/L) for 18h at 37°C														Storage for 72h at 5°C ± 3°C																
				PCR			Confirmation										PCR-BPW 72h			PCR-Lysate 72h			Confirmation				Final result			Agreement				
				Cp	Tm	Result	Direct streaking			Subculture SX2				Confirmation final result	ISO 6579 (Milk powders) on negative samples	Final result h	Agree-ment	Cp	Tm	Result	Cp	Tm	Result	Direct streaking		Subculture SX2				Confirmation final result	BPW	Lysate	BPW	Lysate
										6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C														6h at 41.5°C ±1.0°C								
							Typical colonies			Typical colonies		Typical colonies												Typical colonies		Typical colonies								
ChromID Salmonella	XLD	ASAP	XLD				ASAP	XLD	ASAP	XLD	ASAP	XLD	ASAP											XLD	ASAP	XLD	ASAP	XLD	ASAP					
2018	6143	Infant cereals with probiotics (3.8x10 ⁴ CFU/g)	-	0	0	-	st	st	st			st	st	-	/	-	NA													14	b			
2018	6144	Infant cereals with probiotics (2.0x10 ⁴ CFU/g)	-	0	0	-	st	st	st			st	st	-	/	-	NA													14	b			
2018	6145	Infant cereals with probiotics (3.3x10 ⁵ CFU/g)	-	0	0	-	st	st	st			st	st	-	/	-	NA													14	b			
2018	6146	Infant cereals with probiotics (5.0x10 ⁵ CFU/g)	-	0	0	-	st	st	st			st	st	-	/	-	NA													14	b			
2018	6147	Infant cereals with probiotics (1.2x10 ⁶ CFU/g)	-	0	0	-	st	st	st			st	st	-	/	-	NA													14	b			
2018	6148	Infant cereals with probiotics (4.9x10 ⁴ CFU/g)	-	0	0	-	st	st	st			st	st	-	/	-	NA													14	b			
2018	6149	Infant cereals with probiotics (2.9x10 ⁴ CFU/g)	-	0	0	-	st	st	st			st	st	-	/	-	NA													14	b			
2018	6150	Infant cereals with probiotics (8.3x10 ³ CFU/g)	-	0	0	-	st	st	st			st	st	-	/	-	NA													14	b			
2018	6151	Infant cereals with probiotics (5.6x10 ⁵ CFU/g)	-	0	0	-	st	st	st			st	st	-	/	-	NA													14	b			

Category 15: MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITH OR WITHOUT PROBIOTICS INCLUDING INGREDIENTS (375 g test portion) - Specific protocol ⑧ - Extension No 5

MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITH OR WITHOUT PROBIOTICS INCLUDING INGREDIENTS (375 g test portion) - Specific protocol ⑧ - Extension No 5																																		
Year of analyse	Sample N°	Product	ISO 6579* method	Alternative method : GENE-UP <i>Salmonella</i>																								Category	Type					
			Result	BPW + novobiocin 10mg/L (1/6 dilution) OR pre-warmed BPW (1/10 dilution) for 20h at 37°C												Storage for 72h at 5°C ± 3°C																		
				PCR			Confirmation								Final result	Agree-ment	PCR-BPW 72h			PCR-Lysate 72h			Confirmation				Final result			Agreement				
				Cp	Tm	Result	Direct streaking			Subculture SX2				Confirmation final result			ISO 6579 (Milk powders) on negative samples	Cp	Tm	Result	Cp	Tm	Result	Direct streaking		Subculture SX2				Confirmation final result	BPW	Lysate	BPW	Lysate
										6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C														6h at 41.5°C ±1.0°C								
							Typical colonies			Typical colonies		Typical colonies												Typical colonies		Typical colonies								
ChromID Salmonella	XLD	ASAP	XLD				ASAP	XLD	ASAP	XLD	ASAP	XLD	ASAP											XLD	ASAP	XLD	ASAP	XLD	ASAP					
2018	2640	Skim milk powder	-	0	0	-	-	-	-			-	-	-	NA															15	a			
2018	2641	Skim milk powder	-	0	0	-	st	st	-			st	st	-	-	-	NA													15	a			
2018	2642	Skim milk powder	-	0	0	-	st	st	st			st	st	-	-	-	NA													15	a			
2018	2643	Half-skim milk powder	-	0	0	-	st	st	st			st	st	-	-	-	NA													15	a			
2018	2644	Infant formula without probiotics	-	0	0	-	st	st	st			st	st	-	-	-	NA													15	a			
2018	2645	Infant formula without probiotics	-	0	0	-	st	st	st			st	st	-	-	-	NA													15	a			
2018	2646	Infant formula without probiotics	-	0	0	-	st	st	st			st	st	-	-	-	NA													15	a			
2018	2647	Infant cereals without probiotics	-	0	0	-	-	-	-			-	-	-	/	-	NA													15	a			
2018	2648	Infant cereals without probiotics	-	0	0	-	st	st	st			st	st	-	/	-	NA													15	a			
2018	2649	Infant cereals without probiotics	-	0	0	-	-	-	-			-	-	-	/	-	NA													15	a			
2018	3751	Infant cereals without probiotics	-	0	0	-	-	st	-			st	st	-	/	-	NA													15	a			
2018	3752	Infant cereals without probiotics	-	0	0	-	-	-	-			st	-	-	/	-	NA													15	a			
2018	3753	Infant cereals without probiotics	-	0	0	-	-	st	-			st	st	-	/	-	NA													15	a			
2018	3797	Infant formula without probiotics	-	0	0	-	st	st	st			st	st	-	-	-	NA													15	a			
2018	4878	Skim milk powder	-	0	0	-	st	st	st			st	st	-	-	-	NA													15	a			
2018	4879	Skim milk powder	+	21.26	65.44	+	+p	+p	+p	+p	+p			+	/	+	PA	20.5	66.02	+	19.7	65.41	+	+p	+p	+p	+p	+	+	+	PA	PA	15	a
2018	4880	Skim milk powder	+	26.75	65.96	+	+m	-	+m	-	+m			+	/	+	PA	23.83	65.84	+	24.45	65.12	+	-	+m	+m	+1/2	+	+	+	PA	PA	15	a
2018	4881	Half-skim milk powder	+	20.6	66.01	+	+p	+p	+p	+p	+p			+	/	+	PA	20.78	66.24	+	19.96	65.19	+	+p	+p	+p	+p	+	+	+	PA	PA	15	a
2018	4882	Whole milk powder	+	19.71	66.17	+	+p	+p	+p	+p	+p			+	/	+	PA	21.48	65.88	+	19.82	65.91	+	+p	+p	+p	+p	+	+	+	PA	PA	15	a
2018	4883	Skim milk powder	+	21.46	65.82	+	+p	+p	+p	+p	+p			+	/	+	PA	21.5	66.28	+	21.05	65.78	+	+p	+p	+p	+p	+	+	+	PA	PA	15	a
2018	4884	Infant formula without probiotics	+	19.95	65.93	+	+p	+p	+p	+p	+p			+	/	+	PA	20.27	65.93	+	19.12	66.01	+	+p	+p	+p	+p	+	+	+	PA	PA	15	a
2018	4885	Infant formula without probiotics	+	25.64	66.58	+	+p	+p	+p	+p	+p			+	/	+	PA	21.76	66.16	+	20.91	65.9	+	+p	+p	+p	+p	+	+	+	PA	PA	15	a
2018	4886	Infant formula without probiotics	+	22.44	65.93	+	+p	+p	+p	+p	+p			+	/	+	PA	21.71	66.02	+	21.51	65.96	+	+p	+p	+p	+p	+	+	+	PA	PA	15	a

* Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITH OR WITHOUT PROBIOTICS INCLUDING INGREDIENTS (375 g test portion) - Specific protocol ⑧ - Extension No 5																																		
Year of analyse	Sample N°	Product	ISO 6579♦ method	Alternative method : GENE-UP <i>Salmonella</i>																										Category	Type			
			BPW + novobiocin 10mg/L (1/6 dilution) OR pre-warmed BPW (1/10 dilution) for 20h at 37°C														Storage for 72h at 5°C ± 3°C																	
			PCR			Confirmation								Final result	Agree-ment	PCR-BPW 72h			PCR-Lysate 72h			Confirmation				Final result		Agreement						
			Cp	Tm	Result	Direct streaking			Subculture SX2				Confirmation final result			ISO 6579 (Milk powders) on negative samples	Cp	Tm	Result	Cp	Tm	Result	Direct streaking		Subculture SX2	Confirmation final result	BPW	Lysate	BPW			Lysate		
									6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C																						6h at 41.5°C ±1.0°C	
Typical colonies						Typical colonies		Typical colonies		Typical colonies		Typical colonies											Typical colonies		Typical colonies					Typical colonies			Typical colonies	
ChromID Salmonella	XLD	ASAP	XLD	ASAP	XLD	ASAP	XLD	ASAP	Confirmation final result	ISO 6579 (Milk powders) on negative samples	Final result	Agree-ment	Cp	Tm	Result	Cp	Tm	Result	XLD	ASAP	XLD	ASAP	Confirmation final result	BPW	Lysate	BPW	Lysate							
2018	4887	Infant formula without probiotics	-	20.26	65.56	+	+p	+p	+p	+p	+p			+	/	+	PD	19.82	66.19	+	19.22	66.16	+	+p	+p	+p	+p	+	+	+	PD	PD	15	a
2018	4888	Infant formula without probiotics	+	29.05	65.41	+	+p	+p	+p	+m	+p			+	/	+	PA	28.88	65.8	+	28.65	65.77	+	+p	+p	+p	+p	+	+	+	PA	PA	15	a
2018	4889	Infant formula without probiotics	+	21.75	65.68	+	+p	+p	+p	+p	+p			+	/	+	PA	21.1	65.78	+	20.8	66.2	+	+p	+p	+p	+p	+	+	+	PA	PA	15	a
2018	4890	Infant cereals without probiotics	+	23.64	65.54	+	+m	+p	+M	+p	+p			+	/	+	PA	24.06	65.87	+	23.66	65.9	+	+p	+M	+p	+p	+	+	+	PA	PA	15	a
2018	4891	Infant cereals without probiotics	+	26.45	65.66	+	+1/2	+M	+M	+p	+p			+	/	+	PA	22.33	65.92	+	24.65	65.65	+	+M	+M	+p	+p	+	+	+	PA	PA	15	a
2018	4892	Infant cereals without probiotics	+	20.15	65.51	+	+p	+p	+p	+p	+p			+	/	+	PA	20.59	65.8	+	19.81	65.81	+	+p	+p	+p	+p	+	+	+	PA	PA	15	a
2018	4893	Infant cereals without probiotics	+	20.83	66.18	+	+p	+p	+p	+p	+p			+	/	+	PA	20.83	66.04	+	19.51	66.49	+	+p	+p	+p	+p	+	+	+	PA	PA	15	a
2018	4894	Infant cereals without probiotics	+	20.25	65.92	+	+p	+p	+p	+p	+p			+	/	+	PA	20.68	66.39	+	19.78	66.14	+	+p	+p	+p	+p	+	+	+	PA	PA	15	a
2018	4895	Infant cereals without probiotics	+	21.42	65.95	+	+p	+p	+p	+p	+p			+	/	+	PA	21.43	65.84	+	19.89	66.09	+	+p	+p	+p	+p	+	+	+	PA	PA	15	a
2018	2864	Infant cereals with probiotics (2.9x10 ⁵ CFU/g)	-	0	0	-	st	st	st			st	st	-	/	-	NA																15	b
2018	2865	Infant cereals with probiotics (4.8x10 ⁴ CFU/g)	-	0	0	-	st	st	st			st	st	-	/	-	NA																15	b
2018	2866	Infant cereals with probiotics (1.2x10 ⁷ CFU/g)	-	0	0	-	st	st	st			st	st	-	/	-	NA																15	b
2018	2867	Infant formula with probiotics (1.6x10 ⁶ CFU/g)	-	0	0	-	st	st	st			st	st	-	-	-	NA																15	b
2018	2868	Infant formula with probiotics (1.5x10 ⁶ CFU/g)	-	0	0	-	st	st	st			st	st	-	-	-	NA																15	b
2018	2869	Infant formula with probiotics (9.6x10 ⁶ CFU/g)	-	0	0	-	-	-	-			-	-	-	-	-	NA																15	b
2018	3754	Infant cereals with probiotics (2.5x10 ⁵ CFU/g)	-	0	0	-	-	st	st			st	st	-	/	-	NA																15	b
2018	3755	Infant cereals with probiotics (1.4x10 ⁶ CFU/g)	-	0	0	-	-	st	st			st	st	-	/	-	NA																15	b

MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITH OR WITHOUT PROBIOTICS INCLUDING INGREDIENTS (375 g test portion) - Specific protocol ⑧ - Extension No 5																																		
Year of analyse	Sample N°	Product	ISO 6579* method	Alternative method : GENE-UP <i>Salmonella</i>																								Category	Type					
			Result	BPW + novobiocin 10mg/L (1/6 dilution) OR pre-warmed BPW (1/10 dilution) for 20h at 37°C														Storage for 72h at 5°C ± 3°C																
				PCR			Confirmation								Final result	Agree-ment	PCR-BPW 72h			PCR-Lysate 72h			Confirmation				Final result			Agreement				
				Cp	Tm	Result	Direct streaking			Subculture SX2				Confirmation final result			ISO 6579 (Milk powders) on negative samples	Cp	Tm	Result	Cp	Tm	Result	Direct streaking		Subculture SX2	Confirmation final result			BPW	Lysate	BPW	Lysate	
										6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C																						Typical colonies
ChromID Salmonella	XLD	ASAP	XLD				ASAP	XLD	ASAP	Confirmation final result	ISO 6579 (Milk powders) on negative samples	Final result	Agree-ment											Cp	Tm	Result		Cp	Tm					Result
2018	3756	Infant cereals with probiotics (2.2x10 ⁵ CFU/g)	-	0	0	-	-	st	st			st	st	-	/	-	NA													15	b			
2018	3757	Infant cereals with probiotics (4.8x10 ⁴ CFU/g)	-	0	0	-	-	st	st			st	st	-	/	-	NA													15	b			
2018	3758	Infant cereals with probiotics (2.9x10 ⁵ CFU/g)	-	0	0	-	-	-	-			-	-	-	/	-	NA													15	b			
2018	3798	Infant formula with probiotics (1.6x10 ⁶ CFU/g)	-	0	0	-	-	-	-			-	-	-	-	-	NA													15	b			
2018	3799	Infant formula with probiotics (7.2x10 ⁴ CFU/g)	-	0	0	-	st	st	st			st	st	-	-	-	NA													15	b			
2018	3800	Infant formula with probiotics (6.0x10 ⁴ CFU/g)	-	0	0	-	st	st	st			st	st	-	-	-	NA													15	b			
2018	3801	Infant formula with probiotics (1.5x10 ⁶ CFU/g)	-	0	0	-	st	st	st			st	st	-	-	-	NA													15	b			
2018	3802	Infant formula with probiotics (4.7x10 ⁵ CFU/g)	-	0	0	-	-	-	-			st	st	-	-	-	NA													15	b			
2018	4896	Infant cereals with probiotics (8.0x10 ³ CFU/g)	+	20.77	66.28	+	+p	+p	+p	+p	+p			+	/	+	PA	21.86	66.46	+	19.28	65.6	+	+p	+p	+p	+p	+	+	+	PA	PA	15	b
2018	4897	Infant cereals with probiotics (1.2x10 ⁴ CFU/g)	+	22.9	65.94	+	+p	+p	+p	+p	+p			+	/	+	PA	22.99	66.17	+	22.02	65.93	+	+p	+p	+p	+p	+	+	+	PA	PA	15	b
2018	4898	Infant cereals with probiotics (1.3x10 ⁴ CFU/g)	+	20.93	66.27	+	+p	+p	+p	+p	+p			+	/	+	PA	21.95	66.43	+	19.82	66.03	+	+p	+p	+p	+p	+	+	+	PA	PA	15	b
2018	4899	Infant cereals with probiotics (8.4x10 ³ CFU/g)	-	21.12	66.21	+	+p	+p	+p	+p	+p			+	/	+	PD	21.98	66.32	+	20.07	66.03	+	+p	+p	+p	+p	+	+	+	PD	PD	15	b
2018	4900	Infant cereals with probiotics (7.9x10 ³ CFU/g)	+	21.62	66.16	+	+M	+M	+p	+p	+p			+	/	+	PA	22.04	66.3	+	20.57	65.88	+	+p	+p	+p	+p	+	+	+	PA	PA	15	b
2018	4901	Infant cereals with probiotics (1.2x10 ⁴ CFU/g)	+	0	0	-	st	st	st			st	st	-	/	-	ND	0	0	-	0	0	-	st	st			-	-	-	ND	ND	15	b

MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITH OR WITHOUT PROBIOTICS INCLUDING INGREDIENTS (375 g test portion) - Specific protocol ⑧ - Extension No 5																																		
Year of analyse	Sample N°	Product	ISO 6579* method	Alternative method : GENE-UP <i>Salmonella</i>																										Category	Type			
			Result	BPW + novobiocin 10mg/L (1/6 dilution) OR pre-warmed BPW (1/10 dilution) for 20h at 37°C														Storage for 72h at 5°C ± 3°C																
				PCR			Confirmation								Final result	Agree-ment	PCR-BPW 72h			PCR-Lysate 72h			Confirmation				Final result		Agreement					
				Cp	Tm	Result	Direct streaking			Subculture SX2				Confirmation final result			ISO 6579 (Milk powders) on negative samples	Cp	Tm	Result	Cp	Tm	Result	Direct streaking		Subculture SX2		Confirmation final result	BPW			Lysate	BPW	Lysate
										6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C														6h at 41.5°C ±1.0°C								
							Typical colonies			Typical colonies		Typical colonies												Typical colonies		Typical colonies								
ChromID Salmonella	XLD	ASAP	XLD				ASAP	XLD	ASAP	XLD	ASAP	XLD	ASAP																					
2018	4902	Infant cereals with probiotics (9.1x10³ CFU/g)	+	20.91	65.99	+	+p	+p	+p	+p	+p			+	/	+	PA	21.62	66.08	+	20.28	65.92	+	+p	+p	+p	+p	+	+	+	PA	PA	15	b
2018	4903	Infant cereals with probiotics (5.8x10³ CFU/g)	+	21.32	66.29	+	+p	+p	+p	+p	+p			+	/	+	PA	21.25	66.36	+	20.62	66.09	+	+p	+p	+p	+p	+	+	+	PA	PA	15	b
2018	4904	Infant formula with probiotics (4.5x10⁵ CFU/g)	+	20.27	66.24	+	+p	+p	+p	+p	+p			+	/	+	PA	20.34	66.32	+	18.6	66.02	+	+p	+p	+p	+p	+	+	+	PA	PA	15	b
2018	4905	Infant formula with probiotics (3.2x10⁵ CFU/g)	-	20.47	66	+	+p	+p	+p	+p	+p			+	/	+	PD	20.66	66.12	+	18.63	65.85	+	+p	+p	+p	+p	+	+	+	PD	PD	15	b
2018	4906	Infant formula with probiotics (3.0x10⁵ CFU/g)	+	20.76	66.02	+	+p	+p	+p	+p	+p			+	/	+	PA	20.69	66.15	+	19.18	65.96	+	+p	+p	+p	+p	+	+	+	PA	PA	15	b
2018	4907	Infant formula with probiotics (3.7x10⁴ CFU/g)	+	22.57	66	+	+p	+p	+p	+p	+p			+	/	+	PA	21.55	65.66	+	20.97	65.99	+	+p	+p	+p	+p	+	+	+	PA	PA	15	b
2018	4908	Infant formula with probiotics (4.2x10⁴ CFU/g)	+	30.09	65.72	+	+p	+p	+p	+p	+p			+	/	+	PA	30.11	65.82	+	29.95	65.5	+	+p	+p	+p	+p	+	+	+	PA	PA	15	b
2018	4909	Infant formula with probiotics (5.1x10⁴ CFU/g)	+	21.66	66.13	+	+p	+p	+p	+p	+p			+	/	+	PA	22.83	66.29	+	19.57	65.9	+	+p	+p	+p	+p	+	+	+	PA	PA	15	b
2018	4910	Infant formula with probiotics (3.1x10⁵ CFU/g)	-	20.87	65.94	+	+p	+M	+p	+p	+p			+	/	+	PD	20.83	65.97	+	20.72	65.82	+	+p	+p	+p	+p	+	+	+	PD	PD	15	b
2018	4911	Infant formula with probiotics (7.1x10⁶ CFU/g)	-	0	0	-	st	st	st			st	st	-	-	-	NA																15	b
2018	2870	Starch	-	0	0	-	st	-	st			st	st	-	/	-	NA																15	c1
2018	2871	Whey	-	0	0	-	st	st	st			st	st	-	-	-	NA																15	c1
2018	2872	Caseinates	-	0	0	-	st	st	st			st	st	-	-	-	NA																15	c1
2018	2873	Lactose	-	0	0	-	st	st	st			st	st	-	-	-	NA																15	c1
2018	3739	Caseinate	-	0	0	-	st	st	st			st	st	-	-	-	NA																15	c1
2018	3631	Starch	-	0	0	-	-	-	-			-	-	-	/	-	NA																15	c1
2018	3632	Starch	-	0	0	-	st	st	st			st	st	-	/	-	NA																15	c1
2018	3633	Lactose	-	0	0	-	st	st	st			st	st	-	-	-	NA																15	c1
2018	3634	Starch	-	0	0	-	-	-	-			-	-	-	/	-	NA																15	c1
2018	3635	Whey	-	0	0	-	st	st	st			st	st	-	-	-	NA																15	c1
2018	3636	Starch	-	0	0	-	st	st	st			st	st	-	/	-	NA																15	c1
2018	3637	Maltodextrin	-	0	0	-	-	st	st			st	st	-	-	-	NA																15	c1

MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITH OR WITHOUT PROBIOTICS INCLUDING INGREDIENTS (375 g test portion) - Specific protocol ⑧ - Extension No 5																																		
Year of analyse	Sample N°	Product	ISO 6579* method	Alternative method : GENE-UP <i>Salmonella</i>																								Category	Type					
			Result	BPW + novobiocin 10mg/L (1/6 dilution) OR pre-warmed BPW (1/10 dilution) for 20h at 37°C												Storage for 72h at 5°C ± 3°C																		
				PCR			Confirmation								Final result	Agree-ment	PCR-BPW 72h			PCR-Lysate 72h			Confirmation				Final result			Agreement				
				Cp	Tm	Result	Direct streaking			Subculture SX2				Confirmation final result			ISO 6579 (Milk powders) on negative samples	Cp	Tm	Result	Cp	Tm	Result	Direct streaking		Subculture SX2				Confirmation final result	BPW	Lysate	BPW	Lysate
										6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C														6h at 41.5°C ±1.0°C								
Typical colonies			Typical colonies				Typical colonies		Typical colonies		Typical colonies		Typical colonies											Typical colonies		Typical colonies		Typical colonies						
ChromID <i>Salmonella</i>	XLD	ASAP	XLD	ASAP	XLD	ASAP	Confirmation final result	ISO 6579 (Milk powders) on negative samples	Final result	Agree-ment	Cp	Tm	Result	Cp	Tm	Result	XLD	ASAP	XLD	ASAP	Confirmation final result	BPW	Lysate	BPW	Lysate									
2018	3638	Maltodextrin	-	0	0	-	st	st	st			st	st	-	-	-	NA													15	c1			
2018	3639	Maltodextrin	-	0	0	-	-	st	st			st	st	-	-	-	NA													15	c1			
2018	3640	Maltodextrin	-	0	0	-	st	st	st			st	st	-	-	-	NA													15	c1			
2018	3641	Starch	-	0	0	-	st	st	st			st	st	-	/	-	NA													15	c1			
2018	3642	Starch	-	0	0	-	-	-	-			-	-	-	/	-	NA													15	c1			
2018	3643	Starch	-	0	0	-	-	-	-			-	-	-	/	-	NA													15	c1			
2018	3644	Lactose	-	0	0	-	st	st	st			st	st	-	-	-	NA													15	c1			
2018	3645	Caseinate	-	0	0	-	st	st	st			st	st	-	-	-	NA													15	c1			
2018	3803	Whey	-	0	0	-	st	st	st			st	st	-	-	-	NA													15	c1			
2018	3804	Whey	-	0	0	-	st	st	st			st	st	-	-	-	NA													15	c1			
2018	3805	Whey	-	0	0	-	st	st	st			st	st	-	-	-	NA													15	c1			
2018	3806	Whey	-	0	0	-	st	st	st			st	st	-	-	-	NA													15	c1			
2018	3807	Lactose	-	0	0	-	st	st	st			st	st	-	-	-	NA													15	c1			
2018	3808	Lactose	-	0	0	-	st	st	st			st	st	-	-	-	NA													15	c1			
2018	3809	Lactose	-	0	0	-	st	st	st			st	st	-	-	-	NA													15	c1			
2018	3810	Lactose	-	0	0	-	st	st	st			st	st	-	-	-	NA													15	c1			
2018	3811	Starch	-	0	0	-	st	st	st			-	-	-	/	-	NA													15	c1			
2018	3812	Starch	-	0	0	-	st	st	st			st	st	-	/	-	NA													15	c1			
2018	3813	Maltodextrin	-	0	0	-	st	st	st			st	st	-	-	-	NA													15	c1			
2018	3814	Maltodextrin	-	0	0	-	st	st	st			st	st	-	-	-	NA													15	c1			
2018	3815	Maltodextrin	-	0	0	-	st	st	st			st	st	-	-	-	NA													15	c1			
2018	3816	Maltodextrin	-	0	0	-	st	st	st			st	st	-	-	-	NA													15	c1			
2018	4986	Maltodextrin	-	0	0	-	st	st	st			st	st	-	-	-	NA													15	c1			
2018	4987	Whey	-	0	0	-	st	st	st			st	st	-	-	-	NA													15	c1			
2018	4988	Caseine	+	26.15	66.03	+	+p	+p	+p	+p	+p			+	/	+	PA	25.48	66.08	+	25.54	65.9	+	+p	+p	+p	+p	+	+	+	PA	PA	15	c1
2018	4989	Lactose	-	0	0	-	st	st	st			st	st	-	-	-	NA													15	c1			
2018	4990	Starch	+	21.06	66.2	+	+p	+p	+p	+p	+p			+	/	+	PA	20.34	66.19	+	20.78	66.02	+	+p	+p	+p	+p	+	+	+	PA	PA	15	c1
2018	4991	Caseinate	+	23.65	65.87	+	+p	+p	+p	+p	+p			+	/	+	PA	23.53	65.97	+	22.79	65.79	+	+p	+p	+p	+p	+	+	+	PA	PA	15	c1
2018	4992	Maltodextrin	+	31.91	65.99	+	+p	+p	+p	+p	+p			+	/	+	PA	32.11	66.17	+	31.7	65.92	+	+p	+p	+p	+p	+	+	+	PA	PA	15	c1
2018	4993	Starch	+	25.69	66.35	+	+M	+M	+M	+p	+p			+	/	+	PA	24.75	66.17	+	25.03	66.21	+	+M	+M	+M	+p	+	+	+	PA	PA	15	c1
2018	4994	Lactose	-	0	0	-	-	-	-			-	-	-	-	-	NA													15	c1			
2018	4995	Whey	-	0	0	-	st	st	st			st	st	-	-	-	NA													15	c1			
2018	4996	Caseine	-	0	0	-	st	st	st			st	st	-	-	-	NA													15	c1			
2018	4997	Maltodextrin	+	20.11	66.09	+	+p	+p	+p	+p	+p			+	/	+	PA	20.02	66.19	+	20.11	66.11	+	+p	+p	+p	+p	+	+	+	PA	PA	15	c1
2018	4998	Lactose	-	0	0	-	st	st	st			st	st	-	-	-	NA													15	c1			
2018	4999	Whey	-	0	0	-	st	st	st			st	st	-	-	-	NA													15	c1			
2018	5000	Starch	+	29.56	65.93	+	+p	+p	+p	+p	+p			+	/	+	PA	29.86	66.04	+	29.3	65.99	+	+p	+p	+p	+p	+	+	+	PA	PA	15	c1
2018	5001	Lactose	+	24.55	66.23	+	+p	+p	+p	+p	+p			+	/	+	PA	23.68	66.19	+	24.85	66.38	+	+p	+p	+p	+p	+	+	+	PA	PA	15	c1
2018	5002	Maltodextrin	+	20.64	66.41	+	+p	+p	+p	+p	+p			+	/	+	PA	20.9	66.42	+	21.51	66.44	+	+p	+p	+p	+p	+	+	+	PA	PA	15	c1
2018	5003	Lactose	+	25.73	66.13	+	+p	+p	+p	+p	+p			+	/	+	PA	23.63	65.94	+	26.18	66.09	+	+p	+p	+p	+p	+	+	+	PA	PA	15	c1
2018	5004	Caseine	-	0	0	-	-	st	st			-	st	-	-	-	NA													15	c1			

MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITH OR WITHOUT PROBIOTICS INCLUDING INGREDIENTS (375 g test portion) - Specific protocol ⑧ - Extension No 5																																		
Year of analyse	Sample N°	Product	ISO 6579* method	Alternative method : GENE-UP <i>Salmonella</i>																												Category	Type	
			Result	BPW + novobiocin 10mg/L (1/6 dilution) OR pre-warmed BPW (1/10 dilution) for 20h at 37°C														Storage for 72h at 5°C ± 3°C																
				PCR			Confirmation								Final result	Agree-ment	PCR-BPW 72h			PCR-Lysate 72h			Confirmation				Final result		Agreement					
				Cp	Tm	Result	Direct streaking			Subculture SX2				Confirmation final result			ISO 6579 (Milk powders) on negative samples	Cp	Tm	Result	Cp	Tm	Result	Direct streaking		Subculture SX2		Confirmation final result	BPW	Lysate	BPW			Lysate
										6h at 41.5°C ±1.0°C		24h at 41.5°C ±1.0°C														6h at 41.5°C ±1.0°C								
Typical colonies			Typical colonies				Typical colonies		XLD		ASAP		XLD											ASAP		XLD						ASAP		
ChromID <i>Salmonella</i>	XLD	ASAP	XLD	ASAP	XLD	ASAP	XLD	ASAP	XLD	ASAP	Confirmation final result	ISO 6579 (Milk powders) on negative samples	Final result	Agree-ment	Cp	Tm	Result	Cp	Tm	Result	XLD	ASAP	XLD	ASAP	Confirmation final result	BPW	Lysate	BPW	Lysate					
2018	5005	Starch	+	26.26	66.39	+	+M	+p	+p	+p	+p			+	/	+	PA	25.2	66.35	+	25.91	66.11	+	+p	+p	+p	+p	+	+	+	PA	PA	15	c1
2018	5006	Starch	-	0	0	-	-	st	+md			-	-	-	/	-	NA	0	0	-	0	0	-	-	-	-	-	-	-	-	NA	NA	15	c1
2018	5007	Maltodextrin	+	20.69	66.4	+	+p	+p	+p	+p	+p			+	/	+	PA	20.58	66.3	+	20.82	66.06	+	+p	+p	+p	+p	+	+	+	PA	PA	15	c1
2018	5008	Lactose	+	25.12	65.61	+	+p	+p	+p	+p	+p			+	/	+	PA	23.27	66.16	+	25.66	66.04	+	+p	+p	+p	+p	+	+	+	PA	PA	15	c1
2018	5009	Caseinate	+	23.12	66.21	+	+p	+p	+p	+p	+p			+	/	+	PA	22.92	65.92	+	22.48	65.8	+	+p	+p	+p	+p	+	+	+	PA	PA	15	c1
2018	5010	Whey	-	0	0	-	st	st	st			-	-	-	-	-	NA																15	c1
2018	5011	Starch	-	0	0	-	-	-	-			-	-	-	/	-	NA																15	c1
2018	5012	Starch	-	0	0	-	st	st	st			st	st	-	/	-	NA																15	c1
2018	5013	Whey	-	0	0	-	-	-	-			-	-	-	-	-	NA																15	c1
2018	5014	Maltodextrin	+	22.87	66	+	+p	+p	+p	+p	+p			+	/	+	PA	22.53	66.28	+	23.5	66.17	+	+p	+p	+p	+p	+	+	+	PA	PA	15	c1
2018	5015	Caseine	-	0	0	-	st	st	st			st	st	-	-	-	NA																15	c1
2018	5016	Lactose	+	24.03	65.89	+	+p	+p	+p	+p	+p			+	/	+	PA	23.1	65.93	+	23.6	66.02	+	+p	+p	+p	+p	+	+	+	PA	PA	15	c1
2018	5017	Whey	+	24.48	66.06	+	+p	+p	+p	+p	+p			+	/	+	PA	22.99	65.64	+	24.06	66	+	+p	+p	+p	+p	+	+	+	PA	PA	15	c1
2018	5948	Starch	+	28.22	66.33	+	+p	+p	+p	+p	+p			+	/	+	PA	27.43	66.32	+	28.72	66.08	+	+p	+p	+p	+p	+	+	+	PA	PA	15	c1
2018	5949	Starch	+	24.16	66.11	+	+p	+p	+p	+p	+p			+	/	+	PA	23.96	66.09	+	23.74	65.92	+	+p	+p	+p	+p	+	+	+	PA	PA	15	c1
2018	5950	Starch	+	26.92	56.55	+	+p	+p	+p	+p	+p			+	/	+	PA	24.85	56.57	+	27.22	56.64	+	+p	+p	+p	+p	+	+	+	PA	PA	15	c1
2018	5951	Starch	+	26.05	66.27	+	+p	+p	+p	+p	+p			+	/	+	PA	23.52	66.19	+	24.78	65.97	+	+p	+p	+p	+p	+	+	+	PA	PA	15	c1
2018	5952	Starch	+	23.82	66.2	+	+p	+p	+p	+p	+p			+	/	+	PA	23.1	65.95	+	22.47	65.72	+	+p	+p	+p	+p	+	+	+	PA	PA	15	c1
2018	5953	Starch	+	26.72	66.23	+	+p	+p	+p	+p	+p			+	/	+	PA	24.98	65.87	+	26.43	66.23	+	+p	+p	+p	+p	+	+	+	PA	PA	15	c1
2018	5954	Caseinate	+	23.77	56.05	+	+p	+p	+p	+p	+p			+	/	+	PA	23.82	55.94	+	22.8	55.83	+	+p	+p	+p	+p	+	+	+	PA	PA	15	c1
2018	5955	Caseinate	+	24.21	66.21	+	+p	+p	+p	+p	+p			+	/	+	PA	23.59	65.95	+	22.51	65.91	+	+p	+p	+p	+p	+	+	+	PA	PA	15	c1
2018	5956	Maltodextrin	+	26.91	66.12	+	+p	+p	+p	+p	+p			+	/	+	PA	22.41	66.09	+	26.88	66.25	+	+p	+p	+p	+p	+	+	+	PA	PA	15	c1
2018	5957	Maltodextrin	+	24.69	65.9	+	+p	+p	+p	+p	+p			+	/	+	PA	20.74	65.91	+	24.11	65.98	+	+p	+p	+p	+p	+	+	+	PA	PA	15	c1
2018	5958	Lactose	+	25.71	56.4	+	+p	+p	+p	+p	+p			+	/	+	PA	22.88	56.26	+	25.18	56.37	+	+p	+p	+p	+p	+	+	+	PA	PA	15	c1
2018	5959	Lactose	+	23.22	65.91	+	+p	+p	+p	+p	+p			+	/	+	PA	21.78	65.88	+	22.73	65.83	+	+p	+p	+p	+p	+	+	+	PA	PA	15	c1
2018	5960	Lactose	+	22.86	63.86	+	+p	+p	+p	+p	+p			+	/	+	PA	23.13	65.9	+	24.28	65.97	+	+p	+p	+p	+p	+	+	+	PA	PA	15	c1
2018	5961	Lactose	+	23.43	65.87	+	+p	+p	+p	+p	+p			+	/	+	PA	22.72	65.8	+	23.48	65.89	+	+p	+p	+p	+p	+	+	+	PA	PA	15	c1
2018	5962	Whey	+	32.75	55.77	+	+M	+M	+M	+p	+p			+	/	+	PA	32.91	55.68	+	32.5	56.05	+	+p	+p	+p	+p	+	+	+	PA	PA	15	c1
2018	5963	Whey	-	0	0	-	-	-	-			-	-	-	-	-	NA																15	c1
2018	5964	Whey	+	29.24	66.15	+	+M	+M	+p	+p	+p			+	/	+	PA	29.24	65.99	+	29.47	66.03	+	+M	+p	+M	+p	+	+	+	PA	PA	15	c1
2018	5965	Whey	+	32.14	65.89	+	+p	+p	+p	+p	+p			+	/	+	PA	32.86	65.38	+	32.27	65.66	+	+p	+p	+p	+p	+	+	+	PA	PA	15	c1
2019	5381	Milk powder 0% fat	-	0	0	-	-	-	-			-	-	-	-	-	NA																15	c2
2019	5382	Milk powder 0% fat	-	0	0	-	-	-	-			-	-	-	-	-	NA																15	c2
2019	5387	Milk powder 0% fat	-	0	0	-	st	st	st			st		-	-	-	NA																15	c2
2019	5388	Milk powder 0% fat	-	0	0	-	st	st	st			st		-	-	-	NA																15	c2
2019	5389	Milk powder 26% fat	+	20.51	64.43	+	+p	+p	+p	+p				+		+	PA	20.66	64.8	+	21.58	64.57	+	+p	+p	+p	+p	+	+	+	PA	PA	15	c2
2019	5390	Milk powder 26% fat	-	0	0	-	st	st	st			st		-	-	-	NA																15	c2
2019	5391	Milk powder 0,8% fat	-	0	0	-	st	st	st			st		-	-	-	NA																15	c2
2019	5392	Milk powder 14% fat	+	25.84	64.02	+	+p	+p	+p	+p				+		+	PA	23.05	64.42	+	37.28	61.93	+	+p	+p	+p	+p	+	+	+	PA	PA	15	c2

MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITH OR WITHOUT PROBIOTICS INCLUDING INGREDIENTS (375 g test portion) - Specific protocol ⑧ - Extension No 5																																		
Year of analyse	Sample N°	Product	ISO 6579♦ method	Alternative method : GENE-UP <i>Salmonella</i>																								Category	Type					
			Result	BPW + novobiocin 10mg/L (1/6 dilution) OR pre-warmed BPW (1/10 dilution) for 20h at 37°C												Storage for 72h at 5°C ± 3°C																		
				PCR			Confirmation								Final result	Agree-ment	PCR-BPW 72h			PCR-Lysate 72h			Confirmation				Final result			Agreement				
				Cp	Tm	Result	Direct streaking			Subculture SX2		Confirmation final result	ISO 6579 (Milk powders) on negative samples	Cp			Tm	Result	Cp	Tm	Result	Direct streaking		Subculture SX2	Confirmation final result	BPW	Lysate			BPW	Lysate			
										6h at 41.5°C ±1.0°C	24h at 41.5°C ±1.0°C													6h at 41.5°C ±1.0°C										
							Typical colonies			Typical colonies												Typical colonies		Typical colonies								Typical colonies		Typical colonies
ChromID Salmonella	XLD	ASAP	XLD				ASAP	XLD	ASAP	XLD	ASAP											XLD	ASAP	XLD				ASAP	XLD			ASAP	XLD	ASAP
2019	5393	Milk powder 26% fat	+	25.35	64.16	+	+p	+p	+p	+p			+	-	+	PA	0/ 26.67/ 29.25	0/ 63.79/ 64.59	-/+/- +/-/- -/-/- -/-/-	26.83	61.96	+	+p	+p	+p	+p	+	-	+	ND FN(alt)	PA	15	c2	
2019	5394	Milk powder 0,8% fat	-	0	0	-	st	st	st			st	st	-	-	-	NA															15	c2	
2019	5407	Milk powder 14% fat	-	0	0	-	-	-	-			-	-	-	-	-	NA															15	c2	
2019	5408	Milk powder 14% fat	-	0	0	-	-	-	-			-	-	-	-	-	NA															15	c2	
2019	5409	Organic milk powder 0,8% fat	-	0	0	-	st	st	st			st	st	-	-	-	NA															15	c2	
2019	5410	Milk powder 26% fat	-	0	0	-	-	-	-			-	-	-	-	-	NA															15	c2	
2019	5679	High density milk powder 0.6-0.7% fat	+	28.6	64.85	+	-p	+p	+p	+p	+p			+	/	+	PA	28.5	64.75	+	27.84	64.43	+	+p	+p	+p	+p	+	+	+	PA	PA	15	c2
2019	5680	High density milk powder 0.6-0.7% fat	+	27.63	64.66	+	+p	+p	+p	+p	+p			+	/	+	PA	28.12	64.44	+	26.81	64.39	+	+p	+p	+p	+p	+	+	+	PA	PA	15	c2
2019	5681	Low density milk powder 0.6-0.7% fat	+	32.47	64.44	+	+p	+p	+p	+p	+p			+	/	+	PA	34.04	64.37	+	33.34	63.94	+	+p	+p	+p	+p	+	+	+	PA	PA	15	c2
2019	5682	Low density milk powder 0.6-0.7% fat	+	32.21	64.31	+	+p	+p	+p	+p	+p			+	/	+	PA	34.63	64.36	+	34.06	63.66	+	+p	+p	+p	+p	+	+	+	PA	PA	15	c2
2019	5683	Milk powder 26% fat	+	22.02	64.51	+	+p	+p	+p	+p	+p			+	/	+	PA	22.63	64.84	+	21.76	64.53	+	+p	+p	+p	+p	+	+	+	PA	PA	15	c2
2019	5684	Milk powder 26% fat	+	23.63	64.9	+	+p	+p	+p	+p	+p			+	/	+	PA	23.62	64.83	+	23.45	64.83	+	+p	+p	+p	+p	+	+	+	PA	PA	15	c2
2019	5685	Milk powder 0% fat	+	32.5	64.25	+	+p	+p	+p	+p	+p			+	/	+	PA	33.14	63.95	+	32.85	63.9	+	+p	+p	+p	+p	+	+	+	PA	PA	15	c2
2019	5686	Milk powder 0% fat	+	32.25	65.12	+	+p	+p	+p	+p	+p			+	/	+	PA	30.39	64.15	+	28.46	64.25	+	+p	+p	+p	+p	+	+	+	PA	PA	15	c2
2019	5687	Milk powder 0,8% fat	+	21.5	64.97	+	+p	+p	+p	+p	+p			+	/	+	PA	21.23	64.84	+	21.02	64.58	+	+p	+p	+p	+p	+	+	+	PA	PA	15	c2
2019	5688	Milk powder 14% fat	+	21.41	64.55	+	+p	+p	+p	+p	+p			+	/	+	PA	21.13	64.64	+	20.8	64.27	+	+p	+p	+p	+p	+	+	+	PA	PA	15	c2

Category 16: PRIMARY PRODUCTION SAMPLES (25 g or sampling device) - Specific protocol © - Extension No 8

PRIMARY PRODUCTION SAMPLES (25 g or sampling device) - Specific protocol © - Extension No 8																														
Year of analyse	Sample N°	Product	ISO 6579-1* method	Alternative method : GENE-UP <i>Salmonella</i>																				Category	Type					
			Result	Tetrathionate for 18h at 37°C ± 1.0°C																										
				Subculture SX2 18h at 41.5°C ± 1.0°C					Confirmation final result	Final result	Agreement Gene up 18h	Confirmation										Confirmation final result	Final result (SX2)			Final result Lysate (SX2)	Agreement (SX2)	Agreement Lysate (SX2)		
												Subculture SX2 18h at 41.5°C ± 1.0°C + 72h at 5°C ± 3.0°C																		
				Gene Up			XLD					ASAP		PCR SX2 72h			PCR Lysate 72h			XLD									ASAP	
				Cp SLM	TM (°C) SLM	Result	Typical colonies	Typical colonies				CP SLM	TM (°C) SLM	Result	CP SLM	TM (°C) SLM	Result	Typical colonies	Typical colonies											
				2020	494	Bootsocks (pork environment)	+	23.88	67.26	+	+1/2	+m	+	+	PA	24.38	66.73	+	24.76	66.86	+	+1/2	+m			+	+	+	PA	PA
2020	495	Poultry feces	-	0	0	-	-	-	-	-	NA															16	a			
2020	496	Poultry feces	-			-	-	-	-	-	NA																16	a		
2020	497	Poultry feces	-			-	-	-	-	-	NA																16	a		
2020	498	Poultry feces	-			-	-	-	-	-	NA																16	a		
2020	500	Pork feces	-			-	-	-	-	-	NA																16	a		
2020	502	Poultry feces	-			-	-	-	-	-	NA																16	a		
2020	503	Pork feces	-			-	-	-	-	-	NA																16	a		
2020	2730	Poultry feces	+	25.25	65.72	+	+M	+1/2	+	+	PA	25.47	65.68	+	24.94	65.5	+	+M	+M	+	+	+	PA	PA	16	a				
2020	2731	Poultry feces	+	23.29	65.64	+	+M	+M	+	+	PA	22.87	65.39	+	22.93	65.62	+	+M	+M	+	+	+	PA	PA	16	a				
2020	2732	Poultry feces	-	22.78	65.84	+	+M	+p	+	+	PD	22.49	65.62	+	21.95	65.58	+	+M	+M	+	+	+	PD	PD	16	a				
2020	2733	Bootsocks (poultry environment)	+	0	0	-	st	st	-	-	ND			-			-	st	st	-	-	-	ND	ND	16	a				
2020	2734	Bootsocks (poultry environment)	-			-	-	st	-	-	NA																16	a		
2020	2735	Pork feces	-	22.11	65.73	+	+M	+M	+	+	PD	22.09	65.52	+	21.92	65.78	+	+M	+M	+	+	+	PD	PD	16	a				
2020	2737	Pork feces	+	25.87	65.76	+	+M	+M	+	+	PA	25.05	65.54	+	25.59	65.34	+	+M	+M	+	+	+	PA	PA	16	a				
2020	2943	Pork feces	-			-	-	-	-	-	NA			-			-	-	-	-	-	-	NA	NA	16	a				
2020	2945	Bootsocks (pork)	+	30.96	65.34	+	+M	+1/2	+	+	PA	31.06	64.92	+	31.63	65.3	+	+M	+1/2	+	+	+	PA	PA	16	a				
2020	3008	Bootsocks (poultry environment)	+	0	0	-	d/-	-	-	-	ND			-			-	-	-	-	-	-	ND	ND	16	a				
2020	3013	Bootsocks (pork)	-			-	d/-	-	-	-	NA																16	a		
2020	3014	Pork feces	-			-	-	-	-	-	NA																16	a		
2020	3183	Pork feces	-	27.62	65.48	+	+M	+M	+	+	PD	25.15	65.47	+	26.59	65.85	+	+M	+M	+	+	+	PD	PD	16	a				
2020	3185	Bootsocks (poultry environment)	-			-	st	st	-	-	NA																16	a		
2020	3186	Poultry litter	-			-	-	-	-	-	NA																16	a		
2020	3187	Poultry feces	-	24.12	65.85	+	-	+M	+	+	PD	23.73	65.55	+	23.9	65.61	+	-	+M	+	+	+	PD	PD	16	a				
2020	3188	Poultry feces	+	22.78	65.83	+	+M	+M	+	+	PA	22.69	65.48	+	22.84	65.39	+	+M	+M	+	+	+	PA	PA	16	a				
2020	3308	Pork feces	+	0	0	-	-	-	-	-	ND			-			-	-	-	-	-	-	ND	ND	16	a				
2020	3309	Pork feces	-			-	-	-	-	-	NA			-			-	-	-	-	-	-	NA	NA	16	a				
2020	3312	Poultry feces	-	28.29	65.34	+	-	+m	+	+	PD	29.04	65.1	+	27.13	65.26	+	-	+m	+	+	+	PD	PD	16	a				
2020	3313	Poultry feces	+	0	0	-	-	-	-	-	ND			-			-	-	-	-	-	-	ND	ND	16	a				
2020	3314	Bootsocks (poultry environment)	-			-	st	st	-	-	NA																16	a		
2020	3474	Bootsocks (poultry environment)	-	22.04	65.94	+	+M	+m	+	+	PD	22.5	65.44	+	22.46	65.82	+	+M	+m	+	+	+	PD	PD	16	a				
2020	3476	Poultry feces	+	0	0	-	-	-	-	-	ND			-			-			-	-	-	ND	ND	16	a				
2020	3478	Bootsocks (poultry environment)	+	21.71	65.77	+	+M	+M	+	+	PA	22.45	65.62	+	22.13	65.73	+	+M	+M	+	+	+	PA	PA	16	a				

* Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

PRIMARY PRODUCTION SAMPLES (25 g or sampling device) - Specific protocol © - Extension No 8																												
Year of analyse	Sample N°	Product	ISO 6579-1♦ method	Alternative method : GENE-UP <i>Salmonella</i>																				Category	Type			
			Result	Tetrathionate for 18h at 37°C ± 1.0°C																								
				Subculture SX2 18h at 41.5°C ± 1.0°C					Confirmation final result	Final result	Agreement Gene up 18h	Confirmation										Confirmation final result	Final result (SX2)			Final result Lysate (SX2)	Agreement (SX2)	Agreement Lysate (SX2)
												Subculture SX2 18h at 41.5°C ± 1.0°C + 72h at 5°C ± 3.0°C																
				Gene Up			XLD					ASAP	PCR SX2 72h			PCR Lysate 72h			XLD		ASAP							
				Cp SLM	TM (°C) SLM	Result	Typical colonies	Typical colonies				CP SLM	TM (°C) SLM	Result	CP SLM	TM (°C) SLM	Result	Typical colonies	Typical colonies									
2020	3480	Poultry feces	-			-	-	-	-	-	NA														16	a		
2020	3482	Poultry feces	-	35.5	65.16	+	-	-	+ after a subculture in MKTTn (OMB)	+	PD	35.5	65.16	+	35.82	65.35	+	-	-	+ after a subculture in MKTTn	+	+	PD	PD	16	a		
2020	493	Wipe (pork environment)	-			-	st	st	-	-	NA														16	b		
2020	499	Dust (poultry environment)	-			-	-	-	-	-	NA														16	b		
2020	501	Pork litter	-			-	-	-	-	-	NA														16	b		
2020	504	Wipe (poultry environment)	-			-	-	-	-	-	NA														16	b		
2020	505	Poultry litter	-			-	-	-	-	-	NA														16	b		
2020	2736	Dust (poultry environment)	-	32.21/ 32.20/ 32.52	65.04/ 65.36/ 65.26	+ / + / +	st	st	- (5x)	-	PD _{FP(alt)}			-	32.51/ 32.20/ 32.52	65.04/ 65.36/ 65.26	+ / + / +	st	st	- (5x)	-	-	PA	PD _{FP(alt)}	16	b		
2020	2738	Poultry litter	-			-	-	-	-	-	NA														16	b		
2020	2739	Poultry litter	-	26.98	65.46	+	+1/2	+M	+	+	PD	26.79	65.13	+	26.53	65.6	+	+1/2	+M	+	+	+	PD	PD	16	b		
2020	2740	Poultry litter	+	24.34	65.74	+	+M	+M	+	+	PA	20.85	65.13	+	22.49	65.52	+	+M	+M	+	+	+	PA	PA	16	b		
2020	2944	Wipe (pork)	-	31.59	65.45	+	+m	+m	+	+	PD	30.69	64.98	+	30.83	65.41	+	+M	+m	+	+	+	PD	PD	16	b		
2020	2946	Pork litter	-			-	-	-	-	-	NA			-			-	-	-	-	-	-	NA	NA	16	b		
2020	3009	Wipe (poultry environment)	-			-	d/-	+m	-	-	NA			-			-	-	-	-	-	-	NA	NA	16	b		
2020	3010	Poultry litter	-			-	-	-	-	-	NA														16	b		
2020	3011	Sponge poultry	-			-	-	-	-	-	NA														16	b		
2020	3012	Wipe (pork)	-			-	-	-	-	-	NA														16	b		
2020	3015	Pork litter	-			-	-	-	-	-	NA														16	b		
2020	3184	Pork litter	-	26.96	65.63	+	+M	+m	+	+	PD	26.59	65.4	+	26.98	65.44	+	+m	+m	+	+	+	PD	PD	16	b		
2020	3189	Poultry litter	-			-	-	st	-	-	NA														16	b		
2020	3190	Sponge (poultry environment)	+	0	0	-	-	-	-	-	ND			-			-	-	-	-	-	-	ND	ND	16	b		
2020	3191	Sponge (poultry environment)	-	28.28	65.65	+	+M	+1/2	+	+	PD	25.26	65.6	+	24.74	65.68	+	+M	+m	+	+	+	PD	PD	16	b		
2020	3192	Swab (poultry environment)	+	21.94	65.55	+	-	+1/2	+	+	PA	21.3	65.29	+	22.13	65.66	+	-	+1/2	+	+	+	PA	PA	16	b		
2020	3193	Swab (poultry environment)	+	24.13	65.63	+	+M	+m	+	+	PA	24.18	65.66	+	24.53	65.92	+	+M	+m	+	+	+	PA	PA	16	b		
2020	3310	Pork litter	-			-	-	-	-	-	NA			-			-	d	-	-	-	-	NA	NA	16	b		
2020	3311	Pork litter	-			-	-	-	-	-	NA														16	b		
2020	3315	Poultry litter	-			-	-	-	-	-	NA														16	b		
2020	3316	Wipe (poultry environment)	+	0	0	-	-	-	-	-	ND			-			-	-	-	-	-	-	ND	ND	16	b		
2020	3317	Swab (poultry environment)	+	26.59	65.54	+	+m	+M	+	+	PA	26.93	65.62	+	26.49	65.61	+	+m	+M	+	+	+	PA	PA	16	b		
2020	3318	Sponge (poultry environment)	-	24.45	65.7	+	H2S-	+M	+	+	PD	23.55	65.28	+	24.5	66.02	+	H2S-	+M	+	+	+	PD	PD	16	b		
2020	3475	Sponge (poultry environment)	-	27.15	65.71	+	+m	+m	+	+	PD	28.1	65.86	+	27.55	65.7	+	+m	+m	+	+	+	PD	PD	16	b		
2020	3477	Sponge (poultry environment)	-	23.52	65.81	+	+M	+M	+	+	PD	24.19	65.5	+	25.06	65.71	+	+M	+M	+	+	+	PD	PD	16	b		
2020	3479	Poultry litter	-			-	-	-	-	-	NA														16	b		
2020	3481	Poultry litter	-			-	-	-	-	-	NA														16	b		

Category 17: MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITH OR WITHOUT PROBIOTICS, INCLUDING EARLY LIFE NUTRITION (375 g test portion) - Specific protocol ⑩ - Without BACTVIAB PMAx - Extension No 9

MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITH OR WITHOUT PROBIOTICS, INCLUDING EARLY LIFE NUTRITION (375 g test portion) - Specific protocol ⑩ - Without BACTVIAB PMAxx - Extension No 9																							
Year of analysis	Sample N°	Product	ISO 6579 ♦ method	Alternative method: GENE-UP <i>Salmonella</i>																Category	Type		
			Result	Pre-warmed BPW 1/10 + novobiocin 10 mg/L for 20 h at 37°C																			
				PCR			Confirmation												Final result			Agreement	
				Cp	Tm	Result	Direct streaking				Subculture SX2						Confirmation final result						
							Typical colonies				6 h at 41.5 ± 1.0°C			24 h at 41.5 ± 1.0°C									
							ChromID <i>Salmonella</i>	XLD	ASAP	SALMA	XLD	ASAP	SALMA	XLD	ASAP	SALMA							
2023	1677	Whole milk powder (26% fat)	-	21.58	55.42	+	+M	+p	+p	+p	+p	+p	+p				+	+	PD	17	a		
2023	1678	Half-skim milk powder (14% fat)	+	0	0	-	st	st	st	st	st	st	st	st	st	st	-	-	ND	17	a		
2023	1679	Skim milk powder (0,8% fat)	+	22.26	64.50	+	+M	+p	+p	+p	+p	+p	+p				+	+	PA	17	a		
2023	1682	Infant formula (23,7% fat)	+	19.09	65.63	+	+M	+p	+p	+p	+p	+p	+p				+	+	PA	17	a		
2023	1683	Infant formula (23,5% fat	+	18.87	64.89	+	+M	+p	+p	+p	+p	+p	+p				+	+	PA	17	a		
2023	1684	Infant cereals	-	27.27	55.58	+	+m	+m	+m	+m	+m	+m	+m				+	+	PD	17	a		
2023	2047	Infant cereals	+	18.75	65.48	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	17	a		
2023	2048	Infant cereals	+	18.46	65.20	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	17	a		
2023	2049	Infant formula with probiotics (24% fat)	+	19.18	65.35	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	17	a		
2023	2050	Infant formula with probiotics (22,6% fat)	-	19.53	65.47	+	+p	+p	+p	+p	+p	+p	+p				+	+	PD	17	a		
2023	2051	Infant formula with probiotics (25% fat)	+	18.90	65.03	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	17	a		
2023	2522	Infant formula (24,9% fat)	-	0	0	-	st	st	st	st				st	st	st	-	-	NA	17	a		
2023	2523	Infant formula (23,2% fat)	-	0	0	-	st	st	st	st				st	st	st	-	-	NA	17	a		
2023	2524	Infant formula (26% fat)	-	0	0	-	st	st	st	st				st	st	st	-	-	NA	17	a		
2023	2525	Organic infant formula (23,5% fat)	-	0	0	-	st	st	st	st				st	st	st	-	-	NA	17	a		
2023	2526	Organic infant formula (23% fat)	-	0	0	-	st	st	st	st				st	st	st	-	-	NA	17	a		
2023	2527	Infant cereals	-	0	0	-	-	-	-	-				st	st	st	-	-	NA	17	a		
2023	2528	Infant cereals	-	0	0	-	st	st	st	st				st	st	st	-	-	NA	17	a		
2023	2529	Infant cereals	-	0	0	-	st	st	st	st				st	st	st	-	-	NA	17	a		
2023	2530	Infant cereals	-	0	0	-	st	st	st	st				st	st	st	-	-	NA	17	a		
2023	1815	Infant formula with probiotics (<i>B. lactis</i> : 8.91 x10 ⁵ CFU/g) (24.5% fat)	+	18.94	65.67	+	+1/2	+p	+p	+p	+p	+p	+p				+	+	PA	17	b		
2023	1816	Infant formula with probiotics (<i>B. lactis</i> : 4.09 x10 ⁵ CFU/g) (25% fat)	+	18.51	65.34	+	+1/2	+p	+p	+p	+p	+p	+p				+	+	PA	17	b		
2023	1817	Infant formula with probiotics (<i>B. lactis</i> : 1.36 x10 ⁶ CFU/g) (27.6% fat)	+	20.96	65.50	+	+1/2	+p	+p	+p	+p	+p	+p				+	+	PA	17	b		
2023	1818	Infant formula with probiotics (<i>B. lactis</i> : 3.36 x10 ⁴ CFUg) (26% fat)	+	18.72	65.55	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	17	b		
2023	1819	Infant formula with probiotics (<i>B. lactis</i> : 2.45 x10 ³ CFU/g) (28.2% fat)	+	20.10	65.61	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	17	b		
2023	2041	Infant cereals with probiotics (<i>B. lactis</i> : 1.09 x10 ⁶ CFU/g)	-	18.64	65.56	+	+p	+p	+p	+p	+p	+p	+p				+	+	PD	17	b		
2023	2042	Infant cereals with probiotics (<i>B. lactis</i> : 1.09 x10 ⁶ CFU/g)	-	18.58	64.99	+	+p	+p	+p	+p	+p	+p	+p				+	+	PD	17	b		
2023	2043	Infant cereals with probiotics (<i>B. lactis</i> : 1.18 x10 ³ CFU/g)	+	0	0	-	-	-	-	-	st	st	st	-	-	-	-	-	ND	17	b		
2023	2044	Infant cereals with probiotics (<i>B. lactis</i> : 4.41 x10 ⁵ CFU/g)	+	18.83	65.36	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	17	b		
2023	2045	Infant formula with probiotics (<i>B. lactis</i> : 3.09 x10 ⁶ CFU/g) (27.6% fat)	+	23.99	65.12	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	17	b		
2023	2046	Infant formula with probiotics (<i>L. reuteri</i> : 4.73 x10 ⁵ CFU/g) (23% fat)	+	19.99	65.18	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	17	b		
2023	2375	Infant cereals with probiotics (<i>B. lactis</i> 1.09 x 10 ⁶ CFU/g)	-	0	0	-	-	-	-	-				-	-	-	-	-	NA	17	b		
2023	2376	Infant cereals with probiotics (<i>B. lactis</i> : 1.45 x 10 ⁶ CFU/g)	-	0	0	-	st	st	st	st				st	st	st	-	-	NA	17	b		
2023	2377	Infant cereals with probiotics (<i>B. lactis</i> : 1.36 x 10 ⁴ CFU/g)	-	0	0	-	-	-	-	-				st	st	st	-	-	NA	17	b		
2023	2378	Infant cereals with probiotics (<i>B. lactis</i> : 1.18 x 10 ³ CFU/g)	-	0	0	-	st	st	st	st				st	st	st	-	-	NA	17	b		
2023	2379	Infant formula with probiotics (<i>B. lactis</i> : 3.09 x 10 ⁶ CFU/g) (27.8% fat)	-	0	0	-	st	st	st	st				st	st	st	-	-	NA	17	b		
2023	2380	Infant formula with probiotics (<i>B. lactis</i> : 3.56 x 10 ⁵ CFU/g) (26% fat)	-	0	0	-	st	st	st	st				st	st	st	-	-	NA	17	b		
2023	2381	Infant formula with probiotics (<i>L. reuteri</i> : 4.73 x 10 ⁵ CFU/g) (24% fat)	-	0	0	-	st	st	st	st				st	st	st	-	-	NA	17	b		
2023	2382	Infant formula with probiotics (<i>L. reuteri</i> : 3.24 x 10 ⁵ CFU/g) (26% fat)	-	0	0	-	st	st	st	st				st	st	st	-	-	NA	17	b		
2023	2383	Infant formula with probiotics (<i>B. lactis</i> : 8.91 x 10 ⁵ CFU/g) (24% fat)	-	0	0	-	st	st	st	st				st	st	st	-	-	NA	17	b		
2023	2384	Infant formula with probiotics (<i>B. infantis</i> 1.04 x 10 ⁵ CFU/g) (25%fat)	-	0	0	-	st	st	st	st				st	st	st	-	-	NA	17	b		
2023	1805	Thickened powder	+	19.02	65.62	+	+M	+p	+p	+p	+p	+p	+p				+	+	PA	17	c		
2023	1806	Infant rice protein with probiotics (<i>B. lactis</i> : 2.73 x 10 ² CFU/g) (21.5% fat)	+	24.30	65.20	+	+m	+m	+m	+m	+m	+m	+m				+	+	PA	17	c		
2023	1807	Infant powder without lactose with probiotics (<i>L. reuteri</i> : 1.0 x 10 ⁶ CFU/g) (25.5% fat)	+	21.76	65.41	+	+M	+p	+p	+p	+p	+p	+p				+	+	PA	17	c		
2023	1810	Infant rice protein (24.9% fat)	+	18.19	64.78	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	17	c		

♦ Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITH OR WITHOUT PROBIOTICS, INCLUDING EARLY LIFE NUTRITION (375 g test portion) - Specific protocol ⑩ - Without BACTVIAB PMAxx - Extension No 9																						
Year of analysis	Sample N°	Product	ISO 6579 ♦ method	Alternative method: GENE-UP <i>Salmonella</i>																Category	Type	
			Result	Pre-warmed BPW 1/10 + novobiocin 10 mg/L for 20 h at 37°C																		
				PCR			Confirmation												Final result			Agreement
				Cp	Tm	Result	Direct streaking				Subculture SX2											
											6 h at 41.5 ± 1.0°C				24 h at 41.5 ± 1.0°C							
							Typical colonies				Typical colonies				Typical colonies							
							ChromID <i>Salmonella</i>	XLD	ASAP	SALMA	XLD	ASAP	SALMA	XLD	ASAP	SALMA	Confirmation final result					
2023	1811	Infant rice protein (22.8 % fat)	+	18.45	65.53	+	+p	+p	+p	+p	+p	+p				+	+	PA	17	c		
2023	1812	Infant rice protein (26% fat)	+	18.24	65.63	+	+p	+p	+p	+p	+p	+p				+	+	PA	17	c		
2023	1813	Infant rice protein (25% fat)	-	18.33	65.67	+	+p	+p	+p	+p	+p	+p				+	+	PD	17	c		
2023	1814	Infant rice protein (23.5% fat)	+	19.93	64.92	+	+p	+p	+p	+p	+p	+p				+	+	PA	17	c		
2023	2052	Infant rice powder (25% fat)	+	18.67	65.02	+	+p	+p	+p	+p	+p	+p				+	+	PA	17	c		
2023	2053	Thickened powder	+	18.66	65.70	+	+p	+p	+p	+p	+p	+p				+	+	PA	17	c		
2023	2054	Infant rice powder (21.3% fat)	-	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	17	c	
2023	2055	Infant rice powder (25% fat)	-	0	0	-	st	st	st	st	st	st	st	st	st	st	-	-	NA	17	c	
2023	2385	Infant powder without lactose with probiotics (<i>L. reuteri</i> : 1.0 x 10 ⁶ CFU/g) (25.5% fat)	-	0	0	-	st	st	st	st				st	st	st	-	-	NA	17	c	
2023	2386	Infant rice powder with probiotics (<i>B. lactis</i> : 2.73 x 10 ² CFU/g) (21.5% fat)	-	0	0	-	-	-	-	-				-	-	-	-	-	NA	17	c	
2023	2387	Infant powder without lactose with probiotics (<i>L. reuteri</i> : 1.5 x 10 ⁶ CFU/g) (25.5% fat)	-	0	0	-	st	st	st	st				st	st	st	-	-	NA	17	c	
2023	2531	Infant rice powder (24.3% fat)	-	0	0	-	st	st	st	st				st	st	st	-	-	NA	17	c	
2023	2532	Infant rice powder (26% fat)	-	0	0	-	st	st	st	st				st	st	st	-	-	NA	17	c	
2023	2533	Infant rice powder (22.8% fat)	-	0	0	-	st	st	st	st				st	st	st	-	-	NA	17	c	
2023	2534	Infant rice powder (24.9% fat)	-	0	0	-	st	st	st	st				st	st	st	-	-	NA	17	c	
2023	2535	Infant rice powder (23.5% fat)	-	0	0	-	-	-	-	-				st	st	st	-	-	NA	17	c	

MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITH OR WITHOUT PROBIOTICS, INCLUDING EARLY LIFE NUTRITION (375 g test portion) - Specific protocol ⑩ - Without BACTVIAB PMAxx - Extension No 9																											
Year of analysis	Sample N°	Product	ISO 6579♦ method	Alternative method: GENE-UP <i>Salmonella</i>																				Category	Type		
			Result	Pre-warmed BPW 1/10 + novobiocin 10 mg/L for 20h at 37°C + 72h at 5 ± 3°C																							
				PCR-BPW 72 h			PCR-Lysate 72 h			Confirmation												Final result				Agreement	
				Cp	Tm	Result	Cp	Tm	Result	Direct streaking				Subculture SX2						Confirmation final result	BPW	Lysate	BPW			Lysate	
										6 h at 41.5 ± 1.0°C				24 h at 41.5 ± 1.0°C													
										Typical colonies				Typical colonies													
ChromID Salmonella				XLD	ASAP	SALMA	XLD	ASAP	SALMA	XLD	ASAP	SALMA															
2023	1677	Whole milk powder (26% fat)	-	20.48	55.11	+	20.21	55.16	+	+p	+p	+p	+p	+p	+p				+	+	+	PD	PD	17	a		
2023	1678	Half-skim milk powder (14% fat)	+	0	0	-	0	0	-	st	st	st	st	st	st	st	st	st	-	-	-	ND	ND	17	a		
2023	1679	Skim milk powder (0,8% fat)	+	22.01	64.63	+	22.69	64.32	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	17	a		
2023	1682	Infant formula (23,7% fat)	+	20.30	65.61	+	18.74	65.46	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	17	a		
2023	1683	Infant formula (23,5% fat	+	21.85	65.09	+	18.52	65.13	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	17	a		
2023	1684	Infant cereals	-	27.17	55.32	+	26.72	55.57	+	+m	+m	+m	+m	+m	+m				+	+	+	PD	PD	17	a		
2023	2047	Infant cereals	+	18.76	65.35	+	26.04	65.52	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	17	a		
2023	2048	Infant cereals	+	18.14	65.63	+	25.91	66.02	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	17	a		
2023	2049	Infant formula with probiotics (24% fat)	+	19.25	65.40	+	25.64	65.68	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	17	a		
2023	2050	Infant formula with probiotics (22,6% fat)	-	19.22	65.15	+	25.10	65.56	+	+p	+p	+p	+p	+p	+p				+	+	+	PD	PD	17	a		
2023	2051	Infant formula with probiotics (25% fat)	+	19.43	65.52	+	25.47	65.40	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	17	a		
2023	1815	Infant formula with probiotics (<i>B.lactis</i> : 8.91x10 ⁵ CFU/g) (24.5% fat)	+	19.56	65.94	+	18.98	65.58	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	17	b		
2023	1816	Infant formula with probiotics (<i>B.lactis</i> : 4.09x10 ⁵ CFU/g) (25% fat)	+	18.88	65.79	+	18.63	65.54	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	17	b		
2023	1817	Infant formula with probiotics (<i>B.lactis</i> : 1.36x10 ⁶ CFU/g) (27,6% fat)	+	21.10	65.86	+	20.59	65.36	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	17	b		
2023	1818	Infant formula with probiotics (<i>B.lactis</i> : 3.36x10 ⁴ CFU/g) (26% fat)	+	19.16	65.44	+	19.05	65.46	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	17	b		
2023	1819	Infant formula with probiotics (<i>B.lactis</i> : 2.45x10 ³ CFU/g) (28,2% fat)	+	19.83	65.91	+	18.63	65.39	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	17	b		
2023	2041	Infant cereals with probiotics (<i>B.lactis</i> : 1.09x10 ⁶ CFU/g)	-	17.87	65.17	+	28.28	65.34	+	+p	+p	+p	+p	+p	+p				+	+	+	PD	PD	17	b		
2023	2042	Infant cereals with probiotics (<i>B.lactis</i> : 1.09x10 ⁶ CFU/g)	-	17.80	65.00	+	26.18	65.80	+	+p	+p	+p	+p	+p	+p				+	+	+	PD	PD	17	b		
2023	2043	Infant cereals with probiotics (<i>B.lactis</i> : 1.18x10 ³ CFU/g)	+	0	0	-	0	0	-	st	st	st	st	st	st	st	st	st	-	-	-	ND	ND	17	b		
2023	2044	Infant cereals with probiotics (<i>B.lactis</i> : 4.41x10 ⁵ CFU/g)	+	18.33	65.15	+	28.49	65.82	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	17	b		
2023	2045	Infant formula with probiotics (<i>B.lactis</i> : 3.09x10 ⁶ CFU/g) (27,6% fat)	+	24.10	65.34	+	30.93	65.64	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	17	b		
2023	2046	Infant formula with probiotics (<i>L.reuteri</i> : 4.73x10 ⁵ CFU/g) (23% fat)	+	19.79	65.09	+	26.73	65.61	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	17	b		
2023	1805	Thinckened powder	+	18.44	65.40	+	18.11	64.57	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	17	c		
2023	1806	Infant rice protein with probiotics (<i>B.lactis</i> : 2.73x10 ² CFU/g) (21,5% fat)	+	24.82	65.17	+	23.57	65.13	+	+m	+m	+m	+m	+m	+m				+	+	+	PA	PA	17	c		
2023	1807	Infant powder without lactose with probiotics (<i>L.reuteri</i> : 1.0x10 ⁶ CFU/g) (25.5% fat)	+	20.93	65.16	+	20.76	64.61	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	17	c		
2023	1810	Infant rice protein (24.9% fat)	+	18.87	65.67	+	18.08	65.36	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	17	c		

* Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITH OR WITHOUT PROBIOTICS, INCLUDING EARLY LIFE NUTRITION (375 g test portion) - Specific protocol ⑩ - Without BACTVIAB PMAxx - Extension No 9																												
Year of analysis	Sample N°	Product	ISO 6579♦ method	Alternative method: GENE-UP <i>Salmonella</i>																				Category	Type			
			Result	Pre-warmed BPW 1/10 + novobiocin 10 mg/L for 20h at 37°C + 72h at 5 ± 3°C																								
				PCR-BPW 72 h			PCR-Lysate 72 h			Confirmation												Final result				Agreement		
				Cp	Tm	Result	Cp	Tm	Result	Direct streaking				Subculture SX2						Confirmation final result	BPW	Lysate	BPW			Lysate		
														6 h at 41.5 ± 1.0°C			24 h at 41.5 ± 1.0°C											
										Typical colonies				Typical colonies			Typical colonies											
										ChromID Salmonella	XLD	ASAP	SALMA	XLD	ASAP	SALMA	XLD	ASAP	SALMA									
2023	1811	Infant rice protein (22.8 % fat)	+	18.70	65.46	+	18.29	65.33	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	17	c			
2023	1812	Infant rice protein (26% fat)	+	18.17	65.46	+	17.85	65.30	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	17	c			
2023	1813	Infant rice protein (25% fat)	-	18.47	65.58	+	18.07	65.50	+	+p	+p	+p	+p	+p	+p				+	+	+	PD	PD	17	c			
2023	1814	Infant rice protein (23.5% fat)	+	22.17	65.35	+	19.08	65.19	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	17	c			
2023	2052	Infant rice powder (25% fat)	+	18.61	65.37	+	24.82	65.27	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	17	c			
2023	2053	Thickened powder	+	18.55	65.70	+	25.94	65.32	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	17	c			

Category 17: MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITH OR WITHOUT PROBIOTICS, INCLUDING EARLY LIFE NUTRITION (375 g test portion) - Specific protocol ⑩ - With BACTVIAB PMAxx - Extension No 13

MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITH OR WITHOUT PROBIOTICS, INCLUDING EARLY LIFE NUTRITION (375 g test portion) - Specific protocol ⑩ - With BACTVIAB PMAxx - Extension No 13																							
Year of analysis	Sample N°	Product	ISO 6579 ♦ method	Alternative method: GENE-UP <i>Salmonella</i>																Category	Type		
			Result	Pre-warmed BPW 1/10 + novobiocin 10 mg/L for 20 h at 37°C																			
				PCR (with PMAxx)			Confirmation												Final result			Agreement Ref/Alt	
							Direct streaking				Subculture SX2												
											6 h at 41.5 ± 1.0°C			24 h at 41.5 ± 1.0°C			Confirmation final result						
				Cp	Tm	Result	Typical colonies				Typical colonies			Typical colonies									
				ChromID <i>Salmonella</i>	XLD	ASAP	SALMA	XLD	ASAP	SALMA	XLD	ASAP	SALMA										
2023	1677	Whole milk powder (26% fat)	-	23.26	56.25	+	+M	+p	+p	+p	+p	+p	+p				+	+		PD	17		a
2023	1678	Half-skim milk powder (14% fat)	+	0	0	-	st	st	st	st	st	st	st	st	st	st	-	-	ND	17	a		
2023	1679	Skim milk powder (0,8% fat)	+	26.05	65.20	+	+M	+p	+p	+p	+p	+p	+p				+	+	PA	17	a		
2023	1682	Infant formula (23,7% fat)	+	24.70	66.21	+	+M	+p	+p	+p	+p	+p	+p				+	+	PA	17	a		
2023	1683	Infant formula (23,5% fat)	+	22.79	65.71	+	+M	+p	+p	+p	+p	+p	+p				+	+	PA	17	a		
2023	1684	Infant cereals	-	31.21	56.25	+	+m	+m	+m	+m	+m	+m	+m				+	+	PD	17	a		
2023	2047	Infant cereals	+	24.16	65.84	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	17	a		
2023	2048	Infant cereals	+	24.28	66.11	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	17	a		
2023	2049	Infant formula with probiotics (24% fat)	+	24.65	65.88	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	17	a		
2023	2050	Infant formula with probiotics (22.6% fat)	-	23.56	65.39	+	+p	+p	+p	+p	+p	+p	+p				+	+	PD	17	a		
2023	2051	Infant formula with probiotics (25% fat)	+	23.77	65.62	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	17	a		
2023	2522	Infant formula (24.9% fat)	-	0	0	-	st	st	st	st				st	st	st	-	-	NA	17	a		
2023	2523	Infant formula (23.2% fat)	-	0	0	-	st	st	st	st				st	st	st	-	-	NA	17	a		
2023	2524	Infant formula (26% fat)	-	0	0	-	st	st	st	st				st	st	st	-	-	NA	17	a		
2023	2525	Organic infant formula (23.5% fat)	-	0	0	-	st	st	st	st				st	st	st	-	-	NA	17	a		
2023	2526	Organic infant formula (23% fat)	-	0	0	-	st	st	st	st				st	st	st	-	-	NA	17	a		
2023	2527	Infant cereals	-	0	0	-	-	-	-	-				st	st	st	-	-	NA	17	a		
2023	2528	Infant cereals	-	0	0	-	st	st	st	st				st	st	st	-	-	NA	17	a		
2023	2529	Infant cereals	-	0	0	-	st	st	st	st				st	st	st	-	-	NA	17	a		
2023	2530	Infant cereals	-	0	0	-	st	st	st	st				st	st	st	-	-	NA	17	a		
2023	1815	Infant formula with probiotics (<i>B.lactis</i> : 8.91x10 ⁵ CFU/g) (24.5% fat)	+	22.17	22.39	+	+1/2	+p	+p	+p	+p	+p	+p				+	+	PA	17	b		
2023	1816	Infant formula with probiotics (<i>B.lactis</i> : 4.09x10 ⁵ CFU/g) (25% fat)	+	21.76	22.11	+	+1/2	+p	+p	+p	+p	+p	+p				+	+	PA	17	b		
2023	1817	Infant formula with probiotics (<i>B.lactis</i> : 1.36x10 ⁶ CFU/g) (27.6% fat)	+	24.22	24.30	+	+1/2	+p	+p	+p	+p	+p	+p				+	+	PA	17	b		
2023	1818	Infant formula with probiotics (<i>B.lactis</i> : 3.36x10 ⁴ CFU/g) (26% fat)	+	22.06	22.30	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	17	b		
2023	1819	Infant formula with probiotics (<i>B.lactis</i> : 2.45x10 ³ CFU/g) (28.2% fat)	+	22.98	23.14	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	17	b		
2023	2041	Infant cereals with probiotics (<i>B.lactis</i> : 1.09x10 ⁶ CFU/g)	-	26.44	66.32	+	+p	+p	+p	+p	+p	+p	+p				+	+	PD	17	b		
2023	2042	Infant cereals with probiotics (<i>B.lactis</i> : 1.09x10 ⁶ CFU/g)	-	23.99	64.85	+	+p	+p	+p	+p	+p	+p	+p				+	+	PD	17	b		
2023	2043	Infant cereals with probiotics (<i>B.lactis</i> : 1.18x10 ³ CFU/g)	+	0	0	-	-	-	-	-	st	st	st	-	-	-	-	-	ND	17	b		
2023	2044	Infant cereals with probiotics (<i>B.lactis</i> : 4.41x10 ⁵ CFU/g)	+	26.21	66.17	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	17	b		
2023	2045	Infant formula with probiotics (<i>B.lactis</i> : 3.09x10 ⁶ CFU/g) (27.6% fat)	+	29.00	66.16	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	17	b		
2023	2046	Infant formula with probiotics (<i>L.reuteri</i> : 4.73x10 ⁵ CFU/g) (23% fat)	+	25.20	65.98	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	17	b		
2023	2375	Infant cereals with probiotics (<i>B.lactis</i> 1.09x10 ⁶ CFU/g)	-	0	0	-	-	-	-	-				-	-	-	-	-	NA	17	b		
2023	2376	Infant cereals with probiotics (<i>B.lactis</i> : 1.45x10 ⁶ CFU/g)	-	0	0	-	st	st	st	st				st	st	st	-	-	NA	17	b		
2023	2377	Infant cereals with probiotics (<i>B.lactis</i> : 1.36x10 ⁴ CFU/g)	-	0	0	-	-	-	-	-				st	st	st	-	-	NA	17	b		
2023	2378	Infant cereals with probiotics (<i>B.lactis</i> : 1.18x10 ³ CFU/g)	-	0	0	-	st	st	st	st				st	st	st	-	-	NA	17	b		
2023	2379	Infant formula with probiotics (<i>B.lactis</i> : 3.09x10 ⁶ CFU/g) (27.8% fat)	-	0	0	-	st	st	st	st				st	st	st	-	-	NA	17	b		
2023	2380	Infant formula with probiotics (<i>B.lactis</i> : 3.56x10 ⁵ CFU/g) (26% fat)	-	0	0	-	st	st	st	st				st	st	st	-	-	NA	17	b		

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MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITH OR WITHOUT PROBIOTICS, INCLUDING EARLY LIFE NUTRITION (375 g test portion) - Specific protocol ⑩ - With BACTVIAB PMAxx - Extension No 13																								
Year of analysis	Sample N°	Product	ISO 6579 ♦ method	Alternative method: GENE-UP <i>Salmonella</i>															Category	Type				
			Result	Pre-warmed BPW 1/10 + novobiocin 10 mg/L for 20 h at 37°C																				
				PCR (with PMAxx)			Confirmation														Final result	Agreement Ref/Alt		
							Direct streaking				Subculture SX2													
				Typical colonies							6 h at 41.5 ± 1.0°C			24 h at 41.5 ± 1.0°C			Confirmation final result							
								Cp	Tm	Result	ChromID Salmonella	XLD	ASAP	SALMA	XLD	ASAP		SALMA	XLD				ASAP	SALMA
2023	2381	Infant formula with probiotics (<i>L.reuteri</i> : 4.73x10 ⁵ CFU/g) (24% fat)	-	0	0	-	st	st	st	st				st	st	st	-	-	NA	17			b	
2023	2382	Infant formula with probiotics (<i>L.reuteri</i> : 3.24x10 ⁵ CFU/g) (26% fat)	-	0	0	-	st	st	st	st				st	st	st	-	-	NA	17	b			
2023	2383	Infant formula with probiotics (<i>B.lactis</i> : 8.91x10 ⁵ CFU/g) (24% fat)	-	0	0	-	st	st	st	st				st	st	st	-	-	NA	17	b			
2023	2384	Infant formula with probiotics (<i>B.infantis</i> 1.04x10 ⁵ CFU/g) (25%fat)	-	0	0	-	st	st	st	st				st	st	st	-	-	NA	17	b			
2023	1805	Thickened powder	+	21.81	22.02	+	+M	+p	+p	+p	+p	+p	+p				+	+	PA	17	c			
2023	1806	Infant rice protein with probiotics (<i>B.lactis</i> : 2.73x10 ² CFU/g) (21.5% fat)	+	26.86	27.24	+	+m	+m	+m	+m	+m	+m	+m				+	+	PA	17	c			
2023	1807	Infant powder without lactose with probiotics (<i>L.reuteri</i> : 1.0x10 ⁶ CFU/g) (25.5% fat)	+	24.74	24.79	+	+M	+p	+p	+p	+p	+p	+p				+	+	PA	17	c			
2023	1810	Infant rice protein (24.9% fat)	+	20.54	21.38	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	17	c			
2023	1811	Infant rice protein (22.8 % fat)	+	20.88	21.25	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	17	c			
2023	1812	Infant rice protein (26% fat)	+	21.56	0	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	17	c			
2023	1813	Infant rice protein (25% fat)	-	21.83	22.02	+	+p	+p	+p	+p	+p	+p	+p				+	+	PD	17	c			
2023	1814	Infant rice protein (23.5% fat)	+	22.91	23.14	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	17	c			
2023	2052	Infant rice powder (25% fat)	+	23.02	65.56	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	17	c			
2023	2053	Thickened powder	+	24.19	65.62	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	17	c			
2023	2054	Infant rice powder (21.3% fat)	-	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	17	c			
2023	2055	Infant rice powder (25% fat)	-	0	0	-	st	st	st	st	st	st	st	st	st	st	-	-	NA	17	c			
2023	2385	Infant powder without lactose with probiotics (<i>L.reuteri</i> : 1.0x10 ⁶ CFU/g) (25.5% fat)	-	0	0	-	st	st	st	st				st	st	st	-	-	NA	17	c			
2023	2386	Infant rice powder with probiotics (<i>B.lactis</i> : 2.73x10 ² CFU/g) (21.5% fat)	-	0	0	-	-	-	-	-				-	-	-	-	-	NA	17	c			
2023	2387	Infant powder without lactose with probiotics (<i>L.reuteri</i> : 1.5x10 ⁶ CFU/g) (25.5% fat)	-	0	0	-	st	st	st	st				st	st	st	-	-	NA	17	c			
2023	2531	Infant rice powder (24.3% fat)	-	0	0	-	st	st	st	st				st	st	st	-	-	NA	17	c			
2023	2532	Infant rice powder (26% fat)	-	0	0	-	st	st	st	st				st	st	st	-	-	NA	17	c			
2023	2533	Infant rice powder (22.8% fat)	-	0	0	-	st	st	st	st				st	st	st	-	-	NA	17	c			
2023	2534	Infant rice powder (24.9% fat)	-	0	0	-	st	st	st	st				st	st	st	-	-	NA	17	c			
2023	2535	Infant rice powder (23.5% fat)	-	0	0	-	-	-	-	-				st	st	st	-	-	NA	17	c			

MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITH OR WITHOUT PROBIOTICS, INCLUDING EARLY LIFE NUTRITION (375 g test portion) - Specific protocol ⑩ - With BACTVIAB PMAxx - Extension No 13																												
Year of analysis	Sample N°	Product	ISO 6579* method	Alternative method: GENE-UP <i>Salmonella</i>																				Category	Ttype			
			Result	Pre-warmed BPW 1/10 + novobiocin 10 mg/L for 20h at 37°C + 72h at 5 ± 3°C																								
				PCR-BPW 72 h			PCR-Lysate 72 h			Confirmation												Final result				Agreement		
				Cp	Tm	Result	Cp	Tm	Result	Direct streaking				Subculture SX2						Confirmation final result	BPW	Lysate	BPW			Lysate		
																											6 h at 41.5 ± 1.0°C	
										Typical colonies				Typical colonies			Typical colonies											
										ChromID <i>Salmonella</i>	XLD	ASAP	SALMA	XLD	ASAP	SALMA	XLD	ASAP	SALMA									
2023	1677	Whole milk powder (26% fat)	-	24.09	56.17	+	24.86	54.94	+	+p	+p	+p	+p	+p	+p				+	+	+	PD	PD	17	a			
2023	1678	Half-skim milk powder (14% fat)	+	0	0	-	0	0	-	st	st	st	st	st	st	st	st	st	-	-	-	ND	ND	17	a			
2023	1679	Skim milk powder (0,8% fat)	+	25.87	65.99	+	30.18	65.37	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	17	a			
2023	1682	Infant formula (23,7% fat)	+	25.11	66.26	+	28.99	65.28	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	17	a			
2023	1683	Infant formula (23,5% fat	+	26.92	65.82	+	26.14	65.32	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	17	a			
2023	1684	Infant cereals	-	32.48	56.10	+	34.51	55.64	+	+m	+m	+m	+m	+m	+m				+	+	+	PD	PD	17	a			
2023	2047	Infant cereals	+	21.95	65.82	+	26.04	65.52	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	17	a			
2023	2048	Infant cereals	+	21.44	66.13	+	25.91	66.02	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	17	a			
2023	2049	Infant formula with probiotics (24% fat)	+	22.11	66.09	+	25.64	65.68	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	17	a			
2023	2050	Infant formula with probiotics (22.6% fat)	-	21.63	65.63	+	25.10	65.56	+	+p	+p	+p	+p	+p	+p				+	+	+	PD	PD	17	a			
2023	2051	Infant formula with probiotics (25% fat)	+	22.09	66.02	+	25.47	65.40	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	17	a			
2023	1815	Infant formula with probiotics (<i>B.lactis</i> : 8.91x10 ⁵ CFU/g) (24.5% fat)	+	25.00	65.80	+	24.52	65.10	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	17	b			
2023	1816	Infant formula with probiotics (<i>B.lactis</i> : 4.09x10 ⁵ CFU/g) (25% fat)	+	23.43	65.41	+	24.28	65.29	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	17	b			
2023	1817	Infant formula with probiotics (<i>B.lactis</i> : 1.36x10 ⁶ CFU/g) (27.6% fat)	+	26.01	65.90	+	27.63	65.10	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	17	b			
2023	1818	Infant formula with probiotics (<i>B.lactis</i> : 3.36x10 ⁴ CFU/g) (26% fat)	+	28.24	66.05	+	24.79	64.45	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	17	b			
2023	1819	Infant formula with probiotics (<i>B.lactis</i> : 2.45x10 ³ CFU/g) (28.2% fat)	+	24.68	65.29	+	26.11	65.01	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	17	b			
2023	2041	Infant cereals with probiotics (<i>B.lactis</i> : 1.09x10 ⁶ CFU/g)	-	21.93	66.17	+	28.28	65.34	+	+p	+p	+p	+p	+p	+p				+	+	+	PD	PD	17	b			
2023	2042	Infant cereals with probiotics (<i>B.lactis</i> : 1.09x10 ⁶ CFU/g)	-	21.70	66.03	+	26.18	65.80	+	+p	+p	+p	+p	+p	+p				+	+	+	PD	PD	17	b			
2023	2043	Infant cereals with probiotics (<i>B.lactis</i> : 1.18x10 ³ CFU/g)	+	0	0	-	0	0	-	st	st	st	st	st	st	st	st	st	-	-	-	ND	ND	17	b			
2023	2044	Infant cereals with probiotics (<i>B.lactis</i> : 4.41x10 ⁵ CFU/g)	+	22.04	66.04	+	28.49	65.82	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	17	b			
2023	2045	Infant formula with probiotics (<i>B.lactis</i> : 3.09x10 ⁶ CFU/g) (27.6% fat)	+	27.76	66.18	+	30.93	65.64	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	17	b			
2023	2046	Infant formula with probiotics (<i>L.reuteri</i> : 4.73x10 ⁵ CFU/g) (23% fat)	+	22.78	66.11	+	26.73	65.61	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	17	b			
2023	1805	Thickened powder	+	26.76	66.09	+	26.10	66.09	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	17	c			
2023	1806	Infant rice protein with probiotics (<i>B.lactis</i> : 2.73x10 ² CFU/g) (21.5% fat)	+	28.78	65.85	+	28.98	65.35	+	+m	+m	+m	+m	+m	+m				+	+	+	PA	PA	17	c			
2023	1807	Infant powder without lactose with probiotics (<i>L.reuteri</i> : 1.0x10 ⁶ CFU/g) (25.5% fat)	+	28.61	65.33	+	27.09	66.10	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	17	c			
2023	1810	Infant rice protein (24.9% fat)	+	23.84	65.70	+	23.65	65.79	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	17	c			
2023	1811	Infant rice protein (22.8 % fat)	+	24.18	65.59	+	22.45	65.57	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	17	c			
2023	1812	Infant rice protein (26% fat)	+	22.82	66.00	+	25.54	66.05	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	17	c			
2023	1813	Infant rice protein (25% fat)	-	23.60	65.74	+	23.62	65.30	+	+p	+p	+p	+p	+p	+p				+	+	+	PD	PD	17	c			
2023	1814	Infant rice protein (23.5% fat)	+	27.06	65.81	+	24.49	65.07	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	17	c			
2023	2052	Infant rice powder (25% fat)	+	21.32	65.77	+	24.82	65.27	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	17	c			
2023	2053	Thickened powder	+	23.05	66.16	+	25.94	65.32	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	17	c			

♦ Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

Category 18: RAW MATERIAL FOR CHOCOLATE INDUSTRY (375 g test portion) - Specific protocol 11- Extension No 11

RAW MATERIAL FOR CHOCOLATE INDUSTRY (375 g test portion) - Specific protocol (11)- Extension No 11																																													
Year of analysis	Sample N°	Product	ISO 6579-1♦ method	Alternative method: GENE-UP Salmonella																																Category	Type								
				Pre-warmed BPW 1/10 + supplement for 10 h at 37°C																Pre-warmed BPW 1/10 + supplement for 10 h at 37°C + 72 h at 5 ± 3°C																									
				PCR 10h (GU lysis PREP)			Confirmation										Final result	Agree-ment	PCR-BPW 72 h (GU lysis PREP)			PCR-Lysate 72 h (GU lysis PREP)			Confirmation									Final result				Agreement							
				Cp	Tm	Result	Direct streaking				Subculture SX2								Cp	Tm	Result	Cp	Tm	Result	Direct streaking				Subculture SX2					Confirmation final result	BPW			Lysat	BPW	Lysate					
							Typical colonies				6 h at 41.5 ± 1.0°C			24 h at 41.5 ± 1.0°C											Typical colonies				6 h at 41.5 ± 1.0°C			22 h at 41.5 ± 1.0°C													
ChromID Salmonella	XLD	ASAP	SALMA				XLD	ASAP	SALMA	XLD	ASAP	SALMA	ChromID Salmonella	XLD	ASAP	SALMA									XLD	ASAP	SALMA	XLD	ASAP	SALMA															
2023	2513	Cocoa powder	-	0	0	-	-	-	-	-				st	st	st	-	-	NA																	18	a								
2023	2514	Cocoa powder	-	0	0	-	st	st	st	st				st	st	st	-	-	NA	0	0	-	0	0	-	st	st	st	st				st	st	st	-	-	-	NA	NA	18	a			
2023	2515	Cocoa liquor	+	35.92	66.09	+	st	st	st	st	+p	+p (pi)	+p (pi)				+	+	PA	32.78	65.83	+	0/ 35.52/ 0	0/ 65.97/ 0	-/+/-	+p (5)	+p (1)	+p (5)	+p (3)	+p	+p	+p				+	+	-	PA	ND FN(alt)	18	a			
2023	2516	Cocoa mass	+	26.19	65.93	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	20.82	65.73	+	26.53	66.23	+	+p	+p	+p	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	18	a
2023	2801	Cocoa mass	-	31.26	66.68	+	+p	+p	+p	+p	+p	+p	+p				+	+	PD	27.51	66.43	+	31.50	66.09	+	+p	+p	+p	+p	+p	+p	+p	+p	+p	+p				+	+	+	PD	PD	18	a
2023	2802	Cocoa butter (non-deodorised)	-	33.70	65.90	+	+p	+p	+p	+p	+p	+p	+p				+	+	PD	31.59	66.16	+	33.75	65.71	+	+p	+p	+p	+p	+p	+p	+p	+p				+	+	+	PD	PD	18	a		
2023	2803	Cocoa powder (100%)	+	34.95	66.14	+	+p(3)	+p(3)	st/st (x5)	+p(1)	+p	+p	+p				+	+	PA	34.81	66.29	+	35.10	65.84	+	+p (1)	st/st (x2) ; + (x3)	+p	st/st (x4); + (1)	+p	+p	+p				+	+	+	PA	PA	18	a			
2023	2804	Alkalized cocoa powder	+	33.11	65.90	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	32.76	66.05	+	33.46	65.85	+	+p	+p (6)	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	18	a		
2023	2805	Cocoa liquor	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																						18	a			
2023	2806	Cocoa mass	+	0	0	-	st	st	st	st				st	st	st	-	-	ND	0	0	-	35.72/ 0/ 0	66.03/ 0/ 0	+/-/-	st	st	st	st				st	st	st	-	-	-	ND	ND	18	a			
2023	2807	Cocoa butter (non-deodorised)	+	35.16 0 0	65.98 0 0	+/- /-	st	st	st	st	st	st	st	st	st	st	-	-	ND	0	0	-	0	0	-	st	st	st	st				st	st	st	-	-	-	ND	ND	18	a			
2023	3079	Chocolate (pellets)	+	34.77	66.38	+	+p (1)	st	+p (1)	+p (2)	st	st	st	+p	+p	+p	+	+	PA	16.47	66.19	+	34.72	66.10	+	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	18	a			
2023	3082	Cocoa liquor	-	32.10	66.03	+	+p	+p	+p	+p	+p	+p	+p				+	+	PD	16.52	65.83	+	32.06	65.90	+	+p	+p	+p	+p	+p	+p	+p				+	+	+	PD	PD	18	a			
2023	3083	Cocoa powder	+	35.07	66.07	+	+p	+p (4)	+p (3)	+p (10)	+p (4)	+p (3)	+p (4)				+	+	PA	18.29	66.30	+	34.60	65.86	+	+p (5)	+p (9)	+p (3)	+p	+p (2)	+p	+p (9)				+	+	+	PA	PA	18	a			
2023	3806	Cocoa butter	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																						18	a			
2023	3807	Chocolate (pellets)	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																						18	a			
2023	3808	Cocoa mass	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																						18	a			
2023	3809	Cocoa liquor	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																						18	a			
2023	3810	Cocoa mass	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																						18	a			
2023	3987	Cocoa powder	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																						18	a			
2023	2507	Whey	+	30.81	66.23	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	22.28	66.61	+	30.56	65.95	+	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	18	b			
2023	2508	Whey	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																						18	b			

* Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

RAW MATERIAL FOR CHOCOLATE INDUSTRY (375 g test portion) - Specific protocol (11)- Extension No 11																																													
Year of analysis	Sample N°	Product	ISO 6579-1♦ method	Alternative method: GENE-UP <i>Salmonella</i>																														Category	Type										
				Pre-warmed BPW 1/10 + supplement for 10 h at 37°C															Pre-warmed BPW 1/10 + supplement for 10 h at 37°C + 72 h at 5 ± 3°C																										
				PCR 10h (GU lysis PREP)			Confirmation										Final result	Agree-ment	PCR-BPW 72 h (GU lysis PREP)			PCR-Lysate 72 h (GU lysis PREP)			Confirmation											Final result		Agreement							
				Cp	Tm	Result	Direct streaking				Subculture SX2								Cp	Tm	Result	Cp	Tm	Result	Direct streaking				Subculture SX2							Confirmation final result	BPW	Lysat	BPW	Lysate					
							Typical colonies				6 h at 41.5 ± 1.0°C			24 h at 41.5 ± 1.0°C											Typical colonies				6 h at 41.5 ± 1.0°C			22 h at 41.5 ± 1.0°C													
							ChromID Salmonella	XLD	ASAP	SALMA	XLD	ASAP	SALMA	XLD	ASAP	SALMA									XLD	ASAP	SALMA	XLD	ASAP	SALMA	XLD	ASAP	SALMA								XLD	ASAP	SALMA	XLD	ASAP
Typical colonies																																		Typical colonies											
2023	2509	Whey protein concentrate	+	0	0	-	st	st	st	st				st	st	st	-	-	ND	0	0	-	0	0	-	st	st	st	st				st	st	st	-	-	-	ND	ND	18	b			
2023	2510	Lactose	+	30.44	66.40	+	+m	+m	+m	+m	+p	+p	+p				+	+	PA	23.87	66.52	+	30.45	65.74	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	18	b				
2023	2740	Cream powder	+	0	0	-	st	st	st	st				st			-	-	ND	0	0	-	0	0	-	st	st	st	st				st	st	st	-	-	-	ND	ND	18	b			
2023	2848	Lactose	-	0	0	-	st	st	st	st				st			-	-	NA																					18	b				
2023	2849	Whey protein concentrate	-	0	0	-	st	st	st	st				st			-	-	NA																					18	b				
2023	2809	Cream powder	+	28.06	65.93	+	+1/2	+1/2 (H2 S-)	+p	+p H2 S-	+p	+p				+	+	PA	25.48	66.18	+	28.15	65.86	+	+1/2	+p H2S-	+p	+M	+p H2 S-	+p	+p				+	+	+	PA	PA	18	b				
2023	2811	Buttermilk powder	+	28.81	65.67	+	+p	+p (H2 S-)	+p	+p	+p H2 S-	+p	+p				+	+	PA	26.52	65.86	+	29.03	65.72	+	+p	+p H2S-	+p	+p	+p H2 S-	+p	+p				+	+	+	PA	PA	18	b			
2023	2812	Yogurt powder	+	32.83	65.74	+	+p	+p (H2 S-)	+p	+p	+p H2 S-	+p	+p				+	+	PA	29.09	65.94	+	32.77	66.04	+	+p	+p H2S-	+p	+p	+p H2 S-	+p	+p				+	+	+	PA	PA	18	b			
2023	3084	Milk powder	+	27.71	65.82	+	+M	+M	+p	+p	+p	+p				+	+	PA	21.51	65.93	+	27.52	65.71	+	+p	+p	+p	+p (2)	+p	+p	+p				+	+	+	PA	PA	18	b				
2023	3088	Cream powder	+	31.67	65.53	+	+p	+p	+p	+p	+p	+p				+	+	PA	25.63	65.76	+	31.22	65.66	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	18	b					
2023	3089	Yogurt powder	+	33.86	65.77	+	+p	+p	+p	+p	+p	+p				+	+	PA	27.72	65.94	+	33.45	65.88	+	+p	+p (9)	+p (10)	+p	+p	+p	+p				+	+	+	PA	PA	18	b				
2023	3683	Buttermilk powder	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																					18	b				
2023	3684	Yogurt powder	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																					18	b				
2023	3685	Milk powder (26% fat)	-	0	0	-	-	-	-	-				-	-	-	-	-	NA																					18	b				
2023	3802	Lactose	-	0	0	-	-	-	-	-				-	-	-	-	-	NA																					18	b				
2023	3803	Whey protein concentrate	-	0	0	-	-	-	-	-				-	-	-	-	-	NA																					18	b				
2023	3804	Whole milk powder	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																					18	b				
2023	3805	Yogurt powder	-	0	0	-	-	-	-	-				-	-	-	-	-	NA																					18	b				
2023	2511	Corn starch	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																					18	c				
2023	2512	Rice starch	-	26.57	66.46	+	+p	+p	+p	+p	+p	+p				+	+	PD	20.43	66.17	+	26.59	66.19	+	+p	+p	+p	+p	+p	+p			+	+	+	PD	PD	18	c						
2023	2733	Peanut butter	-	28.56	66.25	+	+1/2	+M	+1/2	+M	+p	+p	+p				+	+	PD	24.3	66.71	+	27.93	66.53	+	+1/2	+p	+1/2	+p	+p	+p			+	+	+	PD	PD	18	c					
2023	2734	Tapioca	-	0	0	-	-	-	-	-				-			-	-	NA																					18	c				
2023	2735	Soy lecithin	-	0	0	-	st	st	st	st				st			-	-	NA																					18	c				
2023	2736	Marzipan	+	0	0	-	st	st	st	st				st			-	-	ND	0	0	-	0	0	-	st	st	st	st				st	st	st	-	-	-	ND	ND	18	c			
2023	2737	Dextrose	-	0	0	-	st	st	st	st				st			-	-	NA																					18	c				

RAW MATERIAL FOR CHOCOLATE INDUSTRY (375 g test portion) - Specific protocol ⑪- Extension No 11																																										
Year of analysis	Sample N°	Product	ISO 6579-1♦ method	Alternative method: GENE-UP <i>Salmonella</i>																																Category	Type					
			Result	Pre-warmed BPW 1/10 + supplement for 10 h at 37°C																Pre-warmed BPW 1/10 + supplement for 10 h at 37°C + 72 h at 5 ± 3°C																						
				PCR 10h (GU lysis PREP)			Confirmation										Final result	Agreement	PCR-BPW 72 h (GU lysis PREP)			PCR-Lysate 72 h (GU lysis PREP)			Confirmation									Final result				Agreement				
				Cp	Tm	Result	Direct streaking				Subculture SX2								Cp	Tm	Result	Cp	Tm	Result	Direct streaking				Subculture SX2						Confirmation final result			BPW	Lysat	BPW	Lysate	
							6 h at 41.5 ± 1.0°C				24 h at 41.5 ± 1.0°C														6 h at 41.5 ± 1.0°C				22 h at 41.5 ± 1.0°C													
							Typical colonies				Typical colonies			Typical colonies											Typical colonies				Typical colonies			Typical colonies										
ChromID Salmonella	XLD	ASAP	SALMA				XLD	ASAP	SALMA	XLD	ASAP	SALMA	XLD	ASAP	SALMA	XLD									ASAP	SALMA	XLD	ASAP	SALMA													
2023	2738	Almond/hazelnut praline (30% fat)	+	28.26	65.92	+	+M	+M	+M	+M	+p	+p	+p				+	+	PA	25.63	66.35	+	27.92	66.25	+	+M	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	18	c
2023	2739	Glucose (powder)	+	30.34	65.82	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	26.18	66.51	+	30.02	66.25	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	18	c	
2023	3080	Peanut butter	+	30.54	65.95	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	20.52	65.98	+	30.29	65.63	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	18	c	
2023	3081	Tapioca	+	32.70	66.04	+	-	+d/+	+d	+p	+p	+p				+	+	PA	27.29	66.13	+	32.61	65.83	+	+m(2)	-	+m(1)	-	+1/2	+m	+M				+	+	+	PA	PA	18	c	
2023	3085	Rice starch	+	30.11	65.78	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	18.27	66.32	+	30.55	65.70	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	18	c	
2023	3086	Dextrose	+	31.50	66.08	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	28.66	66.32	+	31.73	65.99	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	18	c	
2023	3087	Soy lecithin	+	29.65	66.06	+	+p	+p	+M	+M	+p	+p	+p				+	+	PA	17.04	65.89	+	29.46	66.08	+	+p	+M	+M	+p	+M	+M	+M				+	+	+	PA	PA	18	c
2023	3677	Glucose powder	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																					18	c	
2023	3678	Rice starch	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																					18	c	
2023	3679	Marzipan	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																					18	c	
2023	3680	Hazelnut / almond praline	-	0	0	-	st	st	st	st				-	-	-	-	-	NA																					18	c	
2023	3681	Corn starch	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																					18	c	
2023	3682	Soja lecithin	-	0	0	-	-	-	-	-				-	-	-	-	-	NA																					18	c	

RAW MATERIAL FOR CHOCOLATE INDUSTRY (375 g test portion) - Specific protocol ⑪- Extension No 11																																										
Year of analysis	Sample N°	Product	ISO 6579-1* method	Alternative method: GENE-UP <i>Salmonella</i>																																category	type					
				Pre-warmed BPW 1/10 + supplement 22 h 37°C																Pre-warmed BPW 1/10 + supplement 22 h at 37°C +72 h at 5 ± 3°C																						
				PCR 22 h (GU lysis EASYPREP)			Confirmation									Final result	Agre e ment	PCR-BPW 72 h (GU lysis PREP)			PCR-Lysate 72 h (GU lysis PREP)			Confirmation									Final result		Agreement							
							Direct streaking				Subculture SX2													Direct streaking				Subculture SX2														
				Cp	Tm	Result	Typical colonies				6 h at 41.5 ± 1.0°C			24 h at 41.5 ± 1,0°C				Confirmation final result	Cp	Tm	Result	Cp	Tm	Result	Typical colonies				6 h at 41.5 ± 1.0°C			22 h at 41.5 ± 1.0°C		Confirmation final result	BPW			Lysate	BPW	Lysate		
							ChromID Salmonella	XLD	ASAP	SALMA	XLD	ASAP	SALMA	XLD	ASAP										SALMA	XLD	ASAP	SALMA	XLD	ASAP	SALMA	XLD	ASAP								SALMA	
2023	2513	Cocoa powder	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																	18	a					
2023	2514	Cocoa powder	-	18.61	66.43	+	+p	+p	+p	+p	+p	+p	+p				+	+	PD	17.79	65.96	+	18.60	66.20	+	+p	+p	+p	+p	+p	+p				+	+	+	PD	PD	18	a	
2023	2515	Cocoa liquor	+	17.32	66.21	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	17.42	66.00	+	17.28	66.11	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	18	a	
2023	2516	Cocoa mass	+	15.87	65.98	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	15.69	65.67	+	16.45	66.02	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	18	a	
2023	2801	Cocoa mass	-	15.91	66.25	+	+p	+p	+p	+p	+p	+p	+p				+	+	PD	16.74	66.55	+	15.88	66.41	+	+p	+p	+p	+p	+p	+p				+	+	+	PD	PD	18	a	
2023	2802	Cocoa butter (non-deodorised)	-	16.58	66.01	+	+p	+p	+p	+p	+p	+p	+p				+	+	PD	16.21	66.02	+	16.57	66.08	+	+p	+p	+p	+p	+p	+p				+	+	+	PD	PD	18	a	
2023	2803	Cocoa powder (100%)	+	19.08	66.27	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	18.65	66.27	+	19.30	66.30	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	18	a	
2023	2804	Alkalized cocoa powder	+	27.99	65.85	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	17.13	66.21	+	27.82	65.85	+	+M	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	18	a
2023	2805	Cocoa liquor	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																			18	a			
2023	2806	Cocoa mass	+	0	0	-	st	st	st	st				st	st	st	-	-	ND	0	0	-	0	0	-	st	st	st	st	st	st	st	st	st	st	-	-	-	ND	ND	18	a
2023	2807	Cocoa butter (non-deodorised)	+	i / i* / i** / 0***	i / i* / i** / 0***	i/i* / i** / - ***	st	st	st	st	st	st	st	st	st	st	-	-	ND	0	0	-	i / i* / i** / 0***	i / i* / i** / 0***	i/i* / i** / - ***	st	st	st	st	st	st	st	st	st	st	-	-	-	ND	ND	18	a
2023	3079	Chocolate (pellets)	+	16.00	65.77	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	23.55	66.27	+	16.26	65.78	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	18	a	
2023	3082	Cocoa liquor	-	19.57	66.18	+	+p	+p	+p	+p	+p	+p	+p				+	+	PD	24.08	66.27	+	19.62	65.66	+	+p	+p	+p	+p	+p	+p				+	+	+	PD	PD	18	a	
2023	3083	Cocoa powder	+	19.02	66.12	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	26.66	66.09	+	18.98	65.65	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	18	a	
2023	3806	Cocoa butter	-	0	0	-	st	st	st	st				st		st	-	-	NA																				18	a		
2023	3807	Chocolate (pellets)	-	0	0	-	st	st	st	st				st		st	-	-	NA																				18	a		
2023	3808	Cocoa mass	-	0	0	-	st	st	st	st				st		st	-	-	NA																				18	a		
2023	3809	Cocoa liquor	-	0	0	-	st	st	st	st				st		st	-	-	NA																				18	a		
2023	3810	Cocoa mass	-	0	0	-	st	st	st	st				st		st	-	-	NA																				18	a		
2023	3987	Cocoa powder	-	0	0	-	st	st	st	st				st		st	-	-	NA																				18	a		
2023	2507	Whey	+	17.52	66.28	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	16.87	66.18	+	17.69	66.22	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	18	b	
2023	2508	Whey	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																				18	b		
2023	2509	Whey protein concentrate	+	0	0	-	st	st	st	st				st	st	st	-	-	ND	0	0	-	0	0	-	st	st	st	st	st	st				-	-	-	ND	ND	18	b	
2023	2510	Lactose	+	17.01	66.11	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	16.80	65.99	+	17.18	66.17	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	18	b	
2023	2740	Cream powder	+	0	0	-	st	st	st	st				st	st	st	-	-	ND	0	0	-	0	0	-	st	st	st	st	st	st	st	st	st	-	-	-	ND	ND	18	b	
2023	2848	Lactose	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																				18	b		
2023	2849	Whey protein concentrate	-	0	0	-	st	st	st	-				st	st	st	-	-	NA																				18	b		

* Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

RAW MATERIAL FOR CHOCOLATE INDUSTRY (375 g test portion) - Specific protocol ⑪- Extension No 11																																											
Year of analysis	Sample N°	Product	ISO 6579-1♦ method	Alternative method: GENE-UP <i>Salmonella</i>																										category	type												
			Result	Pre-warmed BPW 1/10 + supplement 22 h 37°C														Pre-warmed BPW 1/10 + supplement 22 h at 37°C +72 h at 5±3°C																									
				PCR 22 h (GU lysis EASYPREP)	Confirmation									Final result	Agreement	PCR-BPW 72 h (GU lysis PREP)			PCR-Lysate 72 h (GU lysis PREP)			Confirmation										Final result		Agreement									
					Direct streaking				Subculture SX2							Direct streaking				Subculture SX2					Confirmation final result	BPW	Lysate	BPW	Lysate														
									6 h at 41.5 ± 1.0°C			24 h at 41.5 ± 1,0°C								6 h at 41.5 ± 1.0°C			22 h at 41.5 ± 1.0°C																				
					Cp	Tm	Result	ChromID Salmonella	XLD	ASAP	SALMA	XLD	ASAP			SALMA	XLD	ASAP	SALMA	Confirmation final result	Cp	Tm	Result	Cp								Tm	Result	ChromID Salmonella	XLD	ASAP	SALMA	XLD	ASAP	SALMA	XLD	ASAP	SALMA
			Typical colonies	Typical colonies	Typical colonies	Typical colonies	Typical colonies	Typical colonies	Typical colonies	Typical colonies	Typical colonies	Typical colonies	Typical colonies	Typical colonies	Typical colonies	Typical colonies	Typical colonies	Typical colonies	Typical colonies	Typical colonies	Typical colonies	Typical colonies	Typical colonies	Typical colonies	Typical colonies	Typical colonies	Typical colonies	Typical colonies	Typical colonies			Typical colonies	Typical colonies	Typical colonies									
2023	2809	Cream powder	+	19.79	65.88	+	+M	+m (H2S-)	+M	+p	+M H2s-	+p	+p				+	+	PA	18.71	66.60	+	19.96	66.42	+	+M	+p (H2S-)	+p	+p	+p H2S-	+p	+p				+	+	+	PA	PA	18	b	
2023	2811	Buttermilk powder	+	24.31	65.78	+	+p	+p (H2S-)	+p	+p	+p H2S-	+p	+p				+	+	PA	24.74	65.92	+	24.60	65.77	+	+p	+p (H2S-)	+p	+p	+p H2S-	+p	+p				+	+	+	PA	PA	18	b	
2023	2812	Yogurt powder	+	23.84	66.31	+	+p	+p (H2S-)	+p	+p	+p H2S-	+p	+p				+	+	PA	25.19	65.87	+	24.10	66.34	+	+p	+p (H2S-)	+p	+p	+p H2S-	+p	+p				+	+	+	PA	PA	18	b	
2023	3084	Milk powder	+	22.26	66.23	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	26.75	65.35	+	22.68	65.80	+	+p	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	18	b
2023	3088	Cream powder	+	33.16	65.83	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	28.50	65.28	+	32.84	65.90	+	+p	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	18	b
2023	3089	Yogurt powder	+	19.47	66.20	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	22.40	65.55	+	19.60	65.66	+	+p	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	18	b
2023	3683	Buttermilk powder	-	0	0	-	st	st	st	st				st		st	-	-	NA																					18	b		
2023	3684	Yogurt powder	-	0	0	-	st	st	st	st				st		st	-	-	NA																					18	b		
2023	3685	Milk powder (26% fat)	-	0	0	-	-	-	-	-				-		-	-	-	NA																					18	b		
2023	3802	Lactose	-	0	0	-	-	-	-	-				-		-	-	-	NA																					18	b		
2023	3803	Whey protein concentrate	-	0	0	-	-	-	-	-				-		-	-	-	NA																					18	b		
2023	3804	Whole milk powder	-	0	0	-	st	st	st	st				st		st	-	-	NA																					18	b		
2023	3805	Yogurt powder	-	0	0	-	-	-	-	-				-		-	-	-	NA																					18	b		
2023	2511	Corn starch	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																					18	c		
2023	2512	Rice starch	-	16.98	65.86	+	+p	+p	+p	+p	+p	+p	+p				+	+	PD	27.83	66.11	+	17.09	65.66	+	+p	+p	+p	+p	+p	+p	+p	+p				+	+	+	PD	PD	18	c
2023	2733	Peanut butter	-	20.00	65.88	+	+M	+p	+M	+p	+p	+p	+p				+	+	PD	19.78	66.2	+	19.96	65.8	+	+M	+p	+p	+p	+p	+p	+p				+	+	+	PD	PD	18	c	
2023	2734	Tapioca	-	0	0	-	-	-	-	-				-	-	-	-	-	NA																					18	c		
2023	2735	Soy lecithin	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																					18	c		
2023	2736	Marzipan	+	0	0	-	st	st	st	st				st	st	st	-	-	ND	0	0	-	0	0	-	st	st	st	st	st	st	st	st	st	-	-	-	ND	ND	18	c		
2023	2737	Dextrose	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																					18	c		
2023	2738	Almond/hazel nut praline (30% fat)	+	16.54	66.21	+	+1/2	+1/2	+M	+p	+M	+M	+M				+	+	PA	16.84	65.95	+	19.79	65.85	+	+M	+p	+p	+p	+M	+p	+p				+	+	+	PA	PA	18	c	
2023	2739	Glucose (powder)	+	25.72	65.77	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	16.76	65.83	+	26.02	66.4	+	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	18	c	
2023	3080	Peanut butter	+	21.10	66.09	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	25.66	65.23	+	21.05	65.58	+	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	18	c	
2023	3081	Tapioca	+	23.09	65.67	+	+m	+M	+M	+M	+p	+p	+p				+	+	PA	26.49	65.92	+	23.14	65.73	+	+m	+M	+m	+m	+m	+m	+m				+	+	+	PA	PA	18	c	
2023	3085	Rice starch	+	17.65	66.22	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	22.10	65.62	+	17.87	65.54	+	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	18	c	
2023	3086	Dextrose	+	16.07	66.20	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	19.29	65.90	+	16.51	65.81	+	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	18	c	
2023	3087	Soy lecithin	+	16.58	65.82	+	+M	+M	+M	+M	+M	+M	+M				+	+	PA	19.98	65.39	+	16.66	65.74	+	+p	+p	+p	+p	+M	+M	+M				+	+	+	PA	PA	18	c	
2023	3677	Glucose powder	-	0	0	-	st	st	st	st				st		st	-	-	NA																					18	c		

RAW MATERIAL FOR CHOCOLATE INDUSTRY (375 g test portion) - Specific protocol ⑪- Extension No 11																																							
Year of analysis	Sample N°	Product	ISO 6579-1♦ method	Alternative method: GENE-UP <i>Salmonella</i>																														category	type				
				Pre-warmed BPW 1/10 + supplement 22 h 37°C															Pre-warmed BPW 1/10 + supplement 22 h at 37°C +72 h at 5 ± 3°C																				
				PCR 22 h (GU lysis EASYPREP)			Confirmation										Final result	Agreement	PCR-BPW 72 h (GU lysis PREP)			PCR-Lysate 72 h (GU lysis PREP)			Confirmation											Final result		Agreement	
				Cp	Tm	Result	Direct streaking				Subculture SX2								Cp	Tm	Result	Direct streaking				Subculture SX2			Confirmation final result	BPW	Lysate	BPW	Lysate						
							Typical colonies				6 h at 41.5 ± 1.0°C			24 h at 41.5 ± 1,0°C								Typical colonies				6 h at 41.5 ± 1.0°C										22 h at 41.5 ± 1.0°C			
							Typical colonies				Typical colonies			Typical colonies								Typical colonies				Typical colonies										Typical colonies			
							ChromID Salmonella	XLD	ASAP	SALMA	XLD	ASAP	SALMA	XLD	ASAP	SALMA						ChromID Salmonella	XLD	ASAP	SALMA	XLD	ASAP	SALMA								XLD	ASAP	SALMA	
2023	3678	Rice starch	-	0	0	-	st	st	st	st			st		st	-			-	NA																18	c		
2023	3679	Marzipan	-	0	0	-	st	st	st	st			st		st	-	-	NA																	18	c			
2023	3680	Hazelnut / almond praline	-	0	0	-	-	-	-	-			-		-	-	-	NA																	18	c			
2023	3681	Corn starch	-	0	0	-	st	st	st	st			st		st	-	-	NA																		18	c		
2023	3682	Soja lecithin	-	0	0	-	-	-	-	-			-		-	-	-	NA																		18	c		

Category 18: RAW MATERIAL FOR CHOCOLATE INDUSTRY (375 g test portion) - Specific protocol 12- Extension No 11

RAW MATERIAL FOR CHOCOLATE INDUSTRY (375 g test portion) - Specific protocol 12- Extension No 11																																												
Year of analysis	Sam ple N°	Product	ISO 6579-1♦ method	Alternative method: GENE-UP <i>Salmonella</i>																										Category	Type													
			Result	Pre-warmed BPW 1/10 + supplement for 22 h at b37°C														Pre-warmed BPW 1/10 + supplement for 22 h at 37°C + 72h at 5 ± 3°C																										
				PCR (GU lysis kit)			Confirmation										Final result	Agree- ment	PCR-BPW 72 h (GU lysis kit)			PCR- Lysate 72 h (GU lysis kit)			Confirmation									Final result		Agreement								
							Direct streaking				Subculture SX2														Direct streaking				Subculture SX2			Confirmation final result	BPW	Lysate	BPW	Lysate								
				6 h at 41.5 ± 1.0°C							24 h at 41.5 ± 1.0°C			6 h at 41.5 ± 1.0°C					24 h at 41.5 ± 1.0°C																									
				Cp	Tm	Result	Typical colonies				Typical colonies			Typical colonies					Confirmation final result	Cp	Tm	Result	Cp	Tm	Result	Typical colonies											Typical colonies			Confirmation final result	BPW	Lysate	BPW	Lysate
							ChromID Salmonella	XLD	ASAP	SALMA	XLD	ASAP	SALMA	XLD	ASAP	SALMA										XLD	ASAP	SALMA	XLD								ASAP	SALMA						
2023	2513	Cocoa powder	-	0	0	-	st	st	st	st				st	st	st			-	-	NA																							18
2023	2514	Cocoa powder	-	26.89	65.59	+	+p	+p	+p	+p	+p	+p				+	+	PD	26.91	65.59	+	29.74	65.33	+	+p	+p	+p	+p	+p	+p									+	+	+	PD	PD	18
2023	2515	Cocoa liquor	+	24.90	65.91	+	+p	+p	+p	+p	+p	+p				+	+	PA	24.90	65.87	+	25.49	65.56	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	18	a				
2023	2516	Cocoa mass	+	23.65	65.61	+	+p	+p	+p	+p	+p	+p				+	+	PA	23.52	65.80	+	24.32	64.86	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	18	a				
2023	2801	Cocoa mass	-	23.95	66.11	+	+p	+p	+p	+p	+p	+p				+	+	PD	24.23	66.32	+	23.19	64.22	+	+p	+p	+p	+p	+p	+p				+	+	+	PD	PD	18	a				
2023	2802	Cocoa butter (non-deodorised)	-	20.05	65.49	+	+p	+p	+p	+p	+p	+p				+	+	PD	20.19	65.53	+	21.39	62.49	+	+p	+p	+p	+p	+p	+p				+	+	+	PD	PD	18	a				
2023	2803	Cocoa powder (100%)	+	27.04	66.14	+	+p	+p	+p	+p	+p	+p				+	+	PA	26.77	66.05	+	27.17	65.49	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	18	a				
2023	2804	Alkalized cocoa powder	+	26.10	66.07	+	+p	+p	+p	+p	+p	+p				+	+	PA	26.15	66.07	+	26.86	65.66	+	+M	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	18	a			
2023	2805	Cocoa liquor	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																			18	a					
2023	2806	Cocoa mass	+	0	0	-	st	sr	st	st				st	st	st	-	-	ND	0	0	-	35.83/ 0/ 27.74	65.56/ 0/ 65.17	+/- /+	st	st	st	st	st	st	st	st	st	-	-	-	ND	ND	18	a			
2023	2807	Cocoa butter (non-deodorised)	+	0	0	-	st	st	st	st				st	st	st	-	-	ND	0	0	-	0	0	-	st	st	st	st	st	st	st	st	st	-	-	-	ND	ND	18	a			
2023	3079	Chocolate (pellets)	+	23.64	66.31	+	+p	+p	+p	+p	+p	+p				+	+	PA	32.09	66.12	+	23.79	65.73	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	18	a				
2023	3082	Cocoa liquor	-	24.13	66.16	+	+p	+p	+p	+p	+p	+p				+	+	PD	24.64	65.78	+	24.00	65.90	+	+p	+p	+p	+p	+p	+p				+	+	+	PD	PD	18	a				
2023	3083	Cocoa powder	+	26.91	66.01	+	+p	+p	+p	+p	+p	+p				+	+	PA	32.59	65.85	+	27.71	65.60	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	18	a				
2023	3806	Cocoa butter	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																			18	a					
2023	3807	Chocolate (pellets)	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																			18	a					
2023	3808	Cocoa mass	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																			18	a					
2023	3809	Cocoa liquor	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																			18	a					
2023	3810	Cocoa mass	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																			18	a					
2023	3987	Cocoa powder	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																			18	a					
2023	2507	Whey	+	19.66	65.45	+	+p	+p	+p	+p	+p	+p				+	+	PA	20.62	65.64	+	20.80	64.93	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	18	b				
2023	2508	Whey	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																			18	b					
2023	2509	Whey protein concentrate	+	0	0	-	st	st	st	st				st	st	st	-	-	ND	0	0	-	0	0	-	st	st	st	-	st	st	st				-	-	-	ND	ND	18	b		
2023	2510	Lactose	+	20.51	65.31	+	+p	+p	+p	+p	+p	+p				+	+	PA	20.62	65.36	+	20.96	65.18	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	18	b				
2023	2740	Cream powder	+	0	0	-	st	st	st	st				st	st	st	-	-	ND	0	0	-	0	0	-	st	st	st	st				-	-	-	ND	ND	18	b					

♦ Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

RAW MATERIAL FOR CHOCOLATE INDUSTRY (375 g test portion) - Specific protocol 12- Extension No 11																																										
Year of analysis	Sam ple N°	Product	ISO 6579-1* method	Alternative method: GENE-UP <i>Salmonella</i>																										Category	Type											
				Pre-warmed BPW 1/10 + supplement for 22 h at b37°C																Pre-warmed BPW 1/10 + supplement for 22 h at 37°C + 72h at 5 ± 3°C																						
			PCR (GU lysis kit)			Confirmation						Final result	Agree- ment	PCR-BPW 72 h (GU lysis kit)			PCR- Lysate 72 h (GU lysis kit)			Confirmation									Final result			Agreement										
						Direct streaking				Subculture SX2										Confirmation final result						Direct streaking						Subculture SX2					BPW	Lysate	BPW	Lysate		
			6 h at 41.5 ± 1.0°C							24 h at 41.5 ± 1.0°C				6 h at 41.5 ± 1.0°C			24 h at 41.5 ± 1.0°C																									
			Cp	Tm	Result	Typical colonies				Typical colonies				Typical colonies			Typical colonies			Typical colonies			Confirmation final result	BPW	Lysate	BPW	Lysate															
ChromID Salmonella	XLD	ASAP	SALMA	XLD		ASAP	SALMA	XLD	ASAP	SALMA	XLD			ASAP	SALMA	XLD	ASAP	SALMA	XLD	ASAP	SALMA																					
2023	2848	Lactose	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																						18	b
2023	2849	Whey protein concentrate	-	0	0	-	-	-	-	-				st	st	st	-	-	NA																						18	b
2023	2809	Cream powder	+	21.82	65.03	+	+M	+m (H2S-)	+M	+p	+M (H2S-)	+p	+p				+	+	PA	21.89	65.62	+	22.50	65.29	+	+M	+p (H2S-)	+p	+p	+p H2S-	+p	+p				+	+	+	PA	PA	18	b
2023	2811	Buttermilk powder	+	28.76	65.13	+	+p	+p (H2S-)	+p	+p	+p (H2S-)	+p	+p				+	+	PA	29.86	65.32	+	28.94	65.12	+	+p	+p (H2S-)	+p	+p	+p H2S-	+p	+p				+	+	+	PA	PA	18	b
2023	2812	Yogurt powder	+	27.51	65.14	+	+p	+p (H2S-)	+p	+p	+p (H2S-)	+p	+p				+	+	PA	28.05	65.29	+	27.96	65.38	+	+p	+p (H2S-)	+p	+p	+p H2S-	+p	+p				+	+	+	PA	PA	18	b
2023	3084	Milk powder	+	26.92	65.48	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	27.58	65.66	+	27.20	65.26	+	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	18	b
2023	3088	Cream powder	+	28.42	65.27	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	27.23	65.88	+	28.04	65.42	+	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	18	b
2023	3089	Yogurt powder	+	21.88	65.45	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	28.02	65.90	+	21.79	65.50	+	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	18	b
2023	3683	Buttermilk powder	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																				18	b		
2023	3684	Yogurt powder	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																				18	b		
2023	3685	Milk powder (26% fat)	-	0	0	-	-	-	-	-				-	-	-	-	-	NA																				18	b		
2023	3802	Lactose	-	0	0	-	-	-	-	-				-	-	-	-	-	NA																				18	b		
2023	3803	Whey protein concentrate	-	0	0	-	-	-	-	-				-	-	-	-	-	NA																				18	b		
2023	3804	Whole milk powder	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																					18	b	
2023	3805	Yogurt powder	-	0	0	-	-	-	-	-				-	-	-	-	-	NA																				18	b		
2023	2511	Corn starch	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																				18	c		
2023	2512	Rice starch	-	19.84	65.39	+	+p	+p	+p	+p	+p	+p	+p				+	+	PD	20.24	65.54	+	20.59	64.91	+	+p	+p	+p	+p	+p	+p	+p				+	+	+	PD	PD	18	c
2023	2733	Peanut butter	-	24.11	65.56	+	+p	+p	+p	+p	+p	+p	+p				+	+	PD	24.68	65.52	+	23.83	65.69	+	+M	+p	+p	+p				+	+	+	PD	PD	18	c			
2023	2734	Tapioca	-	0	0	-	-	-	-	-				-	-	-	-	-	NA																				18	c		
2023	2735	Soy lecithin	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																				18	c		
2023	2736	Marzipan	+	0	0	-	st	st	st	st				st	st	st	-	-	ND	0	0	-	0	0	-	st	st	st	st				-	-	-	ND	ND	18	c			
2023	2737	Dextrose	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																				18	c		
2023	2738	Almond/hazel nut praline (30% fat)	+	20.91	65.61	+	+p	+p	+p	+p	+M	+M	+M				+	+	PA	20.76	65.50	+	20.82	65.55	+	+M	+p	+p	+p				+	+	+	PA	PA	18	c			
2023	2739	Glucose (powder)	+	18.88	65.77	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	18.88	65.50	+	18.66	65.59	+	+p	+p	+p	+p				+	+	+	PA	PA	18	c			
2023	3080	Peanut butter	+	25.71	65.26	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	23.97	65.68	+	25.24	65.16	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	18	c	
2023	3081	Tapioca	+	26.92	65.69	+	+m	+M	+M	+M	+p	+p	+p				+	+	PA	34.74	66.18	+	25.95	65.37	+	+m	+M	+m	+m	+m	+m				+	+	+	PA	PA	18	c	
2023	3085	Rice starch	+	21.89	65.54	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	23.95	65.71	+	21.79	65.35	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	18	c	
2023	3086	Dextrose	+	19.50	65.87	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	25.64	65.99	+	18.81	65.33	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	18	c	
2023	3087	Soy lecithin	+	20.00	65.89	+	+M	+M	+M	+M	+M	+M	+M				+	+	PA	22.14	66.01	+	19.50	65.59	+	+p	+M	+M	+p	+M	+M	+M				+	+	+	PA	PA	18	c

RAW MATERIAL FOR CHOCOLATE INDUSTRY (375 g test portion) - Specific protocol 12- Extension No 11																																							
Year of analysis	Sam ple N°	Product	ISO 6579-1* method	Alternative method: GENE-UP <i>Salmonella</i>																												Category	Type						
				Pre-warmed BPW 1/10 + supplement for 22 h at b37°C														Pre-warmed BPW 1/10 + supplement for 22 h at 37°C + 72h at 5 ± 3°C																					
			PCR (GU lysis kit)			Confirmation										Final result	Agree- ment	PCR-BPW 72 h (GU lysis kit)			PCR- Lysate 72 h (GU lysis kit)			Confirmation										Final result		Agreement			
						Direct streaking				Subculture SX2														Direct streaking				Subculture SX2						Confirmation final result	BPW	Lysate	BPW	Lysate	
			6 h at 41.5 ± 1.0°C							24 h at 41.5 ± 1.0°C			Confirmation final result	6 h at 41.5 ± 1.0°C				24 h at 41.5 ± 1.0°C																					
						Typical colonies															Typical colonies			Typical colonies			Typical colonies				Typical colonies								Typical colonies
			Cp	Tm	Result	ChromID Salmonella	XLD	ASAP	SALMA	XLD	ASAP	SALMA	XLD	ASAP	SALMA			Confirmation final result	Cp	Tm	Result	Cp	Tm	Result	ChromID Salmonella	XLD	ASAP	SALMA	XLD	ASAP	SALMA								XLD
2023	3677	Glucose powder	-	0	0	-	st	st	st	st				st	st			st	-	-	NA															18	c		
2023	3678	Rice starch	-	0	0	-	st	st	st	st				st	st	st	-	-	NA															18	c				
2023	3679	Marzipan	-	0	0	-	st	st	st	st				st	st	st	-	-	NA															18	c				
2023	3680	Hazelnut / almond praline	-	0	0	-	-	-	-	-				-	-	-	-	-	NA															18	c				
2023	3681	Corn starch	-	0	0	-	st	st	st	st				st	st	st	-	-	NA															18	c				
2023	3682	Soja lecithin	-	0	0	-	-	-	-	-				-	-	-	-	-	NA															18	c				

Category 18: RAW MATERIAL AND FINISHED PRODUCTS FROM THE CHOCOLATE INDUSTRY (up 375 g test portion) - Specific protocol ⑪- Extension No 15

RAW MATERIAL AND FINISHED PRODUCTS FROM THE CHOCOLATE INDUSTRY (up to 375 g) – Protocol (11) - Extension No 15																																
Year of analysis	Sample N°	Product (French name)	Product	ISO 6579-1*	Alternative method: GENE-UP <i>Salmonella</i>																							Category	Type			
					Pre-warmed BPW 1/10 + supplement 10 h at 37°C																											
					PCR 10h (GU lysis PREP)			Confirmation																			Confirmation final result			Final result 10 h	Agreement Ref/Alt 10 h	
								Direct streaking									Subculture SX2															
					Cp	Tm	Result 10 h	ChromID <i>Salmonella</i>			XLD		ASAP			SALMA			XLD	ASAP		SALMA		XLD	ASAP	SALMA						
								Typical colonies	Before purif		Typical colonies	Bef ore purif	Typical colonies	Before purif	After purif	Typical colonies	Before purif			Typical colonies	Before purif	Typical colonies	Before purif									
				Latex					Api	Latex							Api	Latex									Api	Latex		Api		
2025	117635	Muffin fourré à la pâte à tartiner noisette et cacao	Muffin filled with hazelnut and cocoa spread	-	30.02	66.13	+	+M	+	+	+M	+	+M	+	+	OMB	+M	+	+	+M	+M	+	+M	+				+	+	PD	18	d
2025	117730	Pâte à tartiner noisettes et cacao (30,90% MG)	Hazelnut and cocoa spread (30.90% fat)	+	32.90	65.67	+	+1/2	+	+	+1/2	+	+1/2	+	+	OMB	+1/2	+	+	+M	+M	+	+M	+				+	+	PA	18	d
2025	117731	Tablette chocolat blanc (29% MG)	White chocolate bar (29% fat)	-	0	0	-	st	/	/	-C	/	st	/	/	/	st	/	/	-C	-C		-C		-A	-A	-A	-	-	NA	18	d
2025	117732	Barre chocolatée, chocolat au lait (35% MG)	Milk chocolate bar with fondant milk heart (35% fat)	+	33.03	65.85	+	+p	+	+	+p	+	+p	+	+	OMA	+M	+	+	+p	+p	+	+p	+				+	+	PA	18	d
2025	117733	Gâteau cacao coconut fourré au lait et noix de coco (22,60% MG)	Coconut cake filled with milk and coconut (22.60% fat)	-	27.72	66.02	+	+m	+	+	+m	+	+m	+	+	OMB	+m	+	+	+m	+m	+	+m	+				+	+	PD	18	d
2025	117734	Bouchées chocolat au lait noisettes et gaufrette (42,7% MG)	Milk chocolate bites with hazelnuts and wafer (42.7% fat)	+	32.42	65.90	+	+1/2	+	+	+1/2	+	+1/2	+	+	OMB	+1/2	+	+	+M	+M	+	+M	+				+	+	PA	18	d
2025	117735	Billes de chocolat cacahuète (65% cacao)	Cocoa chocolate balls (65% cocoa)	+	0	0	-	st	/	/	st	/	st	/	/	/	st	/	/	st	st		st		st	st	st	-	-	ND	18	d
2025	117736	Barre au chocolat avec gaufrette (26%MG) (68,20% cacao)	Chocolate bar with wafer (26% fat) (68, 20% cocoa)	-	34.23	65.90	+	+m	+	+	+m	+	-C	/	/	/	+m	+	+	+M	+M	+	+M	+				+	+	PD	18	d
2025	117737	Tablette chocolat au riz soufflé (25,90% MG) (29% cacao)	Chocolate bar with puffed rice (25,90% fat) (29% cocoa)	+	0	0	-	st	/	/	st	/	st	/	/	/	st	/	/	st	st		st		st	st	st	-	-	ND	18	d
2025	117738	Tablette chocolat avec noisettes (40% MG) (>20% cacao)	Chocolate bar with hazelnuts (40% fat) (>20% cocoa)	-	31.60	65.49	+	+m	+	+	+m	+	+m	+	+	OMB	+m	+	+	+m	+m	+	+m	+				+	+	PD	18	d
2025	117739	Tablette chocolat noir 70% (46%MG) (70% cacao)	Dark chocolate bar 70% (46% fat) (70% cocoa)	-	0	0	-	st	/	/	st	/	st	/	/	/	st	/	/	st	st		st		st	st	st	-	-	NA	18	d
2025	117740	Tablette chocolat noir 90% (21% MG) (90% cacao)	Dark chocolate bar 90% (21% fat) (90% cocoa)	+	0	0	-	st	/	/	st	/	st	/	/	/	st	/	/	st	st		st		st	st	st	-	-	ND	18	d
2025	117741	Tablette chocolat framboise (31% MG) (>20% cacao)	Raspberry chocolate bar (31% fat) (>20% cocoa)	-	0	0	-	-A	/	/	-A	/	-A	/	/	/	-A	/	/	-A	-A		-A		-A	-A	-A	-	-	NA	18	d
2025	117742	Tablette chocolat au lait (42%MG) (>20% cacao)	Milk chocolate bar (42% fat) (>20% cocoa)	-	0	0	-	-C	/	/	-C	/	-C	/	/	/	-C	/	/	-B	-B		-B		-A	-A	-A	-	-	NA	18	d
2025	119548	Gâteau cacao coconut fourré au lait et noix de coco (22,60% MG)	Coconut cake filled with milk and coconut (22.60% fat)	-	0	0	-	-B	/	/	-A	/	-B	/	/	/	-B	/	/	/	/		/		-A	-A	-A	-	-	NA	18	d

• Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

RAW MATERIAL AND FINISHED PRODUCTS FROM THE CHOCOLATE INDUSTRY (up to 375 g) – Protocol (11) - Extension No 15																																				
Year of analysis	Sample N°	Product (French name)	Product	ISO 6579-1♦	Alternative method: GENE-UP <i>Salmonella</i>																							Category	Type							
					Pre-warmed BPW 1/10 + supplement 10 h at 37°C																															
					PCR 10h (GU lysis PREP)			Confirmation																			Confirmation final result			Final result 10 h	Agreement Ref/Alt 10 h					
								Direct streaking											Subculture SX2																	
					Cp	Tm	Result 10 h	ChromID <i>Salmonella</i>						XLD			ASAP			SALMA			XLD	ASAP								SALMA		XLD	ASAP	SALMA
								Typical colonies	Before purif		Typical colonies	Bef ore purif	Typical colonies	Before purif		After purif	Typical colonies	Before purif		Typical colonies	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Typical colonies						Typical colonies				
Latex	Api	Latex	Api	Latex	Api	Latex	Api		Latex	Api				Latex	Api																					
2025	119549	Bouchées chocolat au lait noisettes et gaufrette (42,7% MG)	Milk chocolate bites with hazelnuts and wafer (42.7% fat)	-	0	0	-	-B	/	/	-B	/	-C	/	/	/	-B	/	/	/	/		/		-A	-A	-A	-	-	NA	18	d				
2025	119550	Barre chocolatée, chocolat au lait (35% MG)	Milk chocolate bar with fondant milk heart (35% fat)	-	0	0	-	-C	/	/	-B	/	-C	/	/	/	st	/	/	/	/		/		st	st	st	-	-	NA	18	d				
2025	119551	Tablette chocolat noir 70% (46%MG) (70% cacao)	Dark chocolate bar 70% (46% fat) (70% cocoa)	-	0	0	-	st	/	/	st	/	st	/	/	/	st	/	/	/	/		/		st	st	st	-	-	NA	18	d				
2025	119552	Barre au chocolat avec gaufrette 26%MG) (68,20% cacao)	Chocolate bar with wafer (26% fat) (68, 20% cocoa)	-	0	0	-	st	/	/	-B	/	-C	/	/	/	-C	/	/	/	/		/		st	st	st	-	-	NA	18	d				
2025	119553	Muffin fourré à la pâte à tartiner noisette et cacao	Muffin filled with hazelnut and cocoa spread	-	0	0	-	st	/	/	st	/	-C	/	/	/	st	/	/	/	/		/		st	st	st	-	-	NA	18	d				

ADRIA
Summary report (Version 0) - 37°C
GENE-UP® *Salmonella* (BIO 12/38 - 06/16)

RAW MATERIAL AND FINISH PRODUCTS FROM CHOCOLATE INDUSTRY (up to 375 g) – Protocol ⑪ - Extension No 15																																
Year of analysis	Sample N°	Product (french name)	Product	ISO 6579-1*	Alternative method: GENE-UP <i>Salmonella</i>																									Category	Type	
					Pre-warmed BPW 1/10 + supplement 22 h 37°C																											
					PCR 22 h (GU lysis EASYPREP)			Confirmation																								Final result 22 h
				Direct streaking												Subculture SX2																
				Result	Cp	Tm	Res ult 22 h	6 h at 41.5 ± 1.0°C												24 h at 41.5 ± 1.0°C						Confirmation final result						
								ChromID <i>Salmonella</i>			XLD		ASAP			SALMA			XLD	ASAP		SALMA		XLD	ASAP		SALMA					
								Typical colonies	Before purif		Typical colonies	Before purif	Typical colonies	Before purif	After purif	Typical colonies	Before purif	Typical colonies	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Typical colonies	Typical colonies							
Latex	Api	Latex	Api	Agg	Latex	Api	Latex		Api	Latex																Api	Latex	Api				
2025	117635	Muffin fourré à la pâte à tartiner noisette et cacao	Muffin filled with hazelnut and cocoa spread	-	22.15	66.04	+	+M	+	+	+M	+	+M	+	+	OMB	+p	+	+	+p	+M	+	+M	+	/	/	/	+	+	PD	18	d
2025	117730	Pâte à tartiner noisettes et cacao (30,90% MG)	Hazelnut and cocoa spread (30.90% fat)	+	24.66	65.68	+	+1/2	+	+	+M	+	+1/2	+	+	OMB	+M	+	+	+1/2	+1/2	+	+1/2	+	/	/	/	+	+	PA	18	d
2025	117731	Tablette chocolat blanc (29% MG)	White chocolate bar (29% fat)	-	0	0	-	st	/	/	st	/	st	/	/	/	st	/	/	st	st	/	st		st	st	st	-	-	NA	18	d
2025	117732	Barre chocolatée, chocolat au lait (35% MG)	Milk chocolate bar with fondant milk heart (35% fat)	+	28.52	65.93	+	+p	+	+	+p	+	+p	+	+	OMA	+p	+	+	+p	+p	+	+p	+	/	/	/	+	+	PA	18	d
2025	117733	Gâteau cacao coconut fourré au lait et noix de coco (22,60% MG)	Coconut cake filled with milk and coconut (22.60% fat)	-	28.17	65.84	+	+m	+	+	+1/2	+	+m	+	+	OMB	+1/2	+	+	+1/2	+1/2	+	+1/2	+	/	/	/	+	+	PD	18	d
2025	117734	Bouchées chocolat au lait noisettes et gaufrette (42,7% MG)	Milk chocolate bites with hazelnuts and wafer (42.7% fat)	+	27.12	65.81	+	+M	+	+	+M	+	+M	+	+	OMB	+M	+	+	+1/2	+1/2	+	+M	+	/	/	/	+	+	PA	18	d
2025	117735	Billes de chocolat cacahuète (65% cacao)	Cocoa chocolate balls (65% cocoa)	+	0	0	-	st	/	/	st	/	st	/	/	/	st	/	/	st	st		st		st	st	st	-	-	ND	18	d
2025	117736	Barre au chocolat avec gaufrette (26%MG) (68,20% cacao)	Chocolate bar with wafer (6% fat) (68, 20% cocoa)	-	28.90	66.07	+	+M	+	+	+1/2	+	+M	+	+	OMA	+M	+	+	+1/2	+M	+	+M	+	/	/	/	+	+	PD	18	d
2025	117737	Tablette chocolat au riz soufflé (25,90% MG) (29% cacao)	Chocolate bar with puffed rice (25,90% fat) (29% cocoa)	+	0	0	-	st	/	/	st	/	st	/	/	/	st	/	/	st	st	/	st		st	st	st	-	-	ND	18	d
2025	117738	Tablette chocolat avec noisettes (40% MG)(>20% cacao	Chocolate bar with hazelnuts (40% fat) (>20% cocoa)	-	20.10	65.54	+	+m	+	+	+m	+	+m	+	+	OMB	+1/2	+	+	+m	+m	+	+1/2	+	/	/	/	+	+	PD	18	d
2025	117739	Tablette chocolat noir 70% (46%MG) (70% cacao)	Dark chocolate bar 70% (46% fat) (70% cocoa)	-	0	8	-	-C	/	/	st	/	st	/	/	/	st	/	/	st	st		st	/	st	st	st	-	-	NA	18	d
2025	117740	Tablette chocolat noir 90% (21% MG) (90% cacao)	Dark chocolate bar 90% (21% fat) (90% cocoa)	+	0	0	-	st	/	/	st	/	st	/	/	/	st	/	/	st	st	/	st	/	-B	-B	st	-	-	ND	18	d
2025	117741	Tablette chocolat framboise (31% MG) (>20% cacao)	Raspberry chocolate bar (31% fat) (>20% cocoa)	-	0	0	-	-A	/	/	-A	/	-A	/	/	/	-A	/	/	-A	-A	/	-A	/	-A	-A	-A	-	-	NA	18	d
2025	117742	Tablette chocolat au lait (42%MG) (>20% cacao)	Milk chocolate bar (42% fat) (>20% cocoa)	-	0	0	-	-A	/	/	-B	/	-B	/	/	/	-B	/	/	-A	-A	/	-A	/	-A	-A	-A	-	-	NA	18	d

* Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

RAW MATERIAL AND FINISH PRODUCTS FROM CHOCOLATE INDUSTRY (up to 375 g) – Protocol ⑪ - Extension No 15																																																																																																																																																																																																																																																																																																																																
Year of analysis	Sample N°	Product (french name)	Product	ISO 6579-1*	Alternative method: GENE-UP <i>Salmonella</i>																											Category	Type																																																																																																																																																																																																																																																																																															
					Pre-warmed BPW 1/10 + supplement 22 h 37°C																																																																																																																																																																																																																																																																																																																											
					PCR 22 h (GU lysis EASYPREP)			Confirmation																										Final result 22 h	Agreement Ref/Alt 22 h																																																																																																																																																																																																																																																																																													
				Direct streaking												Subculture SX2																																																																																																																																																																																																																																																																																																																
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				ChromID <i>Salmonella</i>	XLD		ASAP			SALMA			XLD	ASAP		SALMA		XLD	ASAP	SALMA																																																																																																																																																																																																																																																																																																												
																					Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies			Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif

RAW MATERIAL AND FINISH PRODUCTS FROM CHOCOLATE INDUSTRY (up to 375 g) – Protocol (11) - Extension No 15																																
Year of analysis	Sample N°	Product (french name)	Product	ISO 6579-1* method	Alternative method: GENE-UP <i>Salmonella</i>																						Category	Type				
					Pre-warmed BPW 1/10 + supplement 22 h at 37°C +72 h at 5 ± 3°C																											
					PCR-BPW 72 h (GU lysis PREP)						PCR-Lysate 72 h (GU lysis PREP)						Confirmation												Final result		Agreement	
				Result	Cp	Tm	Result	Cp	Tm	Result	Direct streaking						Subculture SX2						Confirmation final result	BPW	Lysate	BPW			Lysate			
											ChromID <i>Salmonella</i>				XLD	ASAP		SALMA		6 h at 41.5 ± 1.0°C										22 h at 41.5 ± 1.0°C		
											Typical colonies	Before purif	Typical colonies	Typical colonies		Before purif	Typical colonies	Before purif	Typical colonies	Typical colonies	Typical colonies	Typical colonies								Typical colonies	Typical colonies	
				2025	117635	Muffin fourré à la pâte à tartiner noisette et cacao	Muffin filled with hazelnut and cocoa spread	-	23.83	66.20	+	22.77	65.79	+	+M	+	+p	+p	+	+p	+	/	/	/	/	/			/	+	+	+
2025	117730	Pâte à tartiner noisettes et cacao (30,90% MG)	Hazelnut and cocoa spread (30.90% fat)	+	24.67	65.85	+	24.55	65.42	+	+M	+	+M	+M	+	+M	+	/	/	/	/	/	/	+	+	+	PA	PA	18	d		
2025	117732	Barre chocolatée, chocolat au lait (35% MG)	Milk chocolate bar with fondant milk heart (35% fat)	+	28.94	66.23	+	28.75	65.66	+	+p	+	+p	+p	+	+p	+	/	/	/	/	/	/	+	+	+	PA	PA	18	d		
2025	117733	Gateau cacao coconut fourré au lait et noix de coco (22,60% MG)	Coconut cake filled with milk and coconut (22.60% fat)	-	25.57	66.04	+	25.20	65.51	+	+m	+	+m	+m	+	+1/2	+	/	/	/	/	/	/	+	+	+	PD	PD	18	d		
2025	117734	Bouchées chocolat au lait noisettes et gaufrette (42,7% MG)	Milk chocolate bites with hazelnuts and wafer (42.7% fat)	+	23.09	65.83	+	23.62	65.38	+	+M	+	+M	+M	+	+p	+	/	/	/	/	/	/	+	+	+	PA	PA	18	d		
2025	117735	Billes de chocolat cacahuete (65% cacao)	Cocoa chocolate balls (65% cocoa)	+	0	0	-	0	0	-	st	/	st	st	/	st	/	/	/	/	/	/	/	-	-	-	ND	ND	18	d		
2025	117736	Barre au chocolat avec gaufrette (26%MG) (68,20% cacao)	Chocolate bar with wafer (26% fat) (68, 20% cocoa)	-	30.23	65.76	+	29.86	65.39	+	+m (9)	+	st	st	/	st	/	/	/	/	/	/	/	+	+	+	PD	PD	18	d		
2025	117737	Tablette chocolat au riz soufflé (25,90% MG) (29% cacao)	Chocolate bar with puffed rice (25,90% fat) (29% cocoa)	+	0	0	-	0	0	-	st	/	st	st	/	st	/	/	/	/	/	/	/	-	-	-	ND	ND	18	d		
2025	117738	Tablette chocolat avec noisettes (40% MG) (>20% cacao)	Chocolate bar with hazelnuts (40% fat) (>20% cocoa)	-	20.83	65.88	+	31.98	66.78	+	+M	+	+M	+M	+	+M	+	/	/	/	/	/	/	+	+	+	PD	PD	18	d		
2025	117740	Tablette chocolat noir 90% (21% MG) (90% cacao)	Dark chocolate bar 90% (21% fat) (90% cocoa)	+	0	0	-	0	0	-	-C	/	st	-C	/	st	/	/	/	/	/	/	/	-	-	-	ND	ND	18	d		

♦ Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

Category 18: RAW MATERIAL AND FINISH PRODUCTS FROM CHOCOLATE INDUSTRY (up 375 g test portion) - Specific protocol 12- Extension No 15

RAW MATERIAL AND FINISH PRODUCTS FROM CHOCOLATE INDUSTRY (up to 375 g) – Protocol 12 - Extension No 15																															
Year of analysis	Sample N°	Product (french name)	Product	ISO 6579-1*	Alternative method: GENE-UP <i>Salmonella</i>																							Category	Type		
					Pre-warmed BPW 1/10 + supplement 22 h 37°C																										
				Result	PCR (GU lysis kit)			Confirmation																						Confirmation final result	Final result 22 h
					Direct streaking										Subculture SX2																
											6 h at 41.5 ± 1.0°C						24 h at 41.5 ± 1.0°C														
					ChromID <i>Salmonella</i>			XLD		ASAP			SALMA			XLD	ASAP		SALMA		XLD	ASAP	SALMA								
					Typical colonies	Before purif		Typical colonies	Before purif		Typical colonies	Before purif	After purif	Typical colonies	Before purif		Typical colonies	Typical colonies	Before purif	Typical colonies	Typical colonies	Typical colonies									
	Latex	Api					Latex	Api	Agg		Latex	Api																			
2025	117635	Muffin fourré à la pâte à tartiner noisette et cacao	Muffin filled with hazelnut and cocoa spread	-	28.54	64.75	+	+M	+	+	+M	+	+M	+	+	OMB	+p	+	+	+p	+M	+	+M	+	/	/	/	+	+	18	d
2025	117730	Pâte à tartiner noisettes et cacao (30,90% MG)	Hazelnut and cocoa spread (30.90% fat)	+	29.31	65.20	+	+1/2	+	+	+M	+	+1/2	+	+	OMB	+M	+	+	+1/2	+1/2	+	+1/2	+	/	/	/	+	+	18	d
2025	117731	Tablette chocolat blanc (29% MG)	White chocolate bar (29% fat)	-	0	0	-	st	/	/	st	/	st	/	/	/	st	/	/	st	st		st		st	st	st	-	-	18	d
2025	117732	Barre chocolatée au chocolat au lait et cœur de lait fondant (35% MG)	Milk chocolate bar with fondant milk heart (35% fat)	+	33.17	65.34	+	+p	+	+	+p	+	+p	+	+	OMA	+p	+	+	+p	+p	+	+p	+	/	/	/	+	+	18	d
2025	117733	gâteau cacao coconut fourré au lait et noix de coco (22,60% MG)	Coconut cake filled with milk and coconut (22.60% fat)	-	31.64	65.25	+	+m	+	+	+1/2	+	+m	+	+	OMB	+1/2	+	+	+1/2	+1/2	+	+1/2	+	/	/	/	+	+	18	d
2025	117734	Bouchées chocolat au lait noisettes et gaufrette (42,7% MG)	Milk chocolate bites with hazelnuts and wafer (42.7% fat)	+	30.42	65.41	+	+M	+	+	+M	+	+M	+	+	OMB	+M	+	+	+1/2	+1/2	+	+M	+	/	/	/	+	+	18	d
2025	117735	Billes de chocolat cacahuète (65% cacao)	Cocoa chocolate balls (65% cocoa)	+	0	0	-	st	/	/	st	/	st	/	/	/	st	/	/	st	st	/	st	/	st	st	st	-	-	18	d
2025	117736	Barre au chocolat avec gaufrette (26% MG) (68,20% cacao)	Chocolate bar with wafer (26% fat) (68, 20% cocoa)	-	35.06	65.70	+	+M	+	+	+1/2	+	+M	+	+	OMA	+M	+	+	+1/2	+M	+	+M	+	/	/	/	+	+	18	d
2025	117737	Tablette chocolat au riz soufflé (25,90% MG) (29% cacao)	Chocolate bar with puffed rice (25,90% fat) (29% cocoa)	+	0	0	-	st	/	/	st	/	st	/	/	/	st	/	/	st	st	/	st	/	st	st	st	-	-	18	d
2025	117738	Tablette chocolat avec noisettes (40% MG) (>20% cacao)	Chocolate bar with hazelnuts (40% fat) (>20% cocoa)	-	28.08	65.22	+	+m	+	+	+m	+	+m	+	+	OMB	+1/2	+	+	+m	+m	+	+1/2	+	/	/	/	+	+	18	d
2025	117739	Tablette chocolat noir 70% (46% MG) (70% cacao)	Dark chocolate bar 70% (46% fat) (70% cocoa)	-	0	0	-	-C	/	/	st	/	st	/	/	/	st	/	/	st	st	/	st	/	st	st	st	-	-	18	d

* Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

RAW MATERIAL AND FINISH PRODUCTS FROM CHOCOLATE INDUSTRY (up to 375 g) – Protocol 12 - Extension No 15																																	
Year of analysis	Sample N°	Product (french name)	Product	ISO 6579-1♦	Alternative method: GENE-UP <i>Salmonella</i>																							Category	Type				
					Pre-warmed BPW 1/10 + supplement 22 h 37°C																												
				Result	PCR (GU lysis kit)			Confirmation																						Confirmation final result	Final result 22 h		
					Direct streaking											Subculture SX2																	
											6 h at 41.5 ± 1.0°C						24 h at 41.5 ± 1.0°C																
					ChromID <i>Salmonella</i>			XLD		ASAP			SALMA		XLD	ASAP		SALMA		XLD	ASAP	SALMA											
					Typical colonies	Before purif		Typical colonies	Before purif	Typical colonies	Before purif		After purif	Typical colonies	Before purif		Typical colonies	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Typical colonies	Typical colonies									
Latex	Api	Latex	Api	Latex		Api	Latex				Api																						
2025	117740	Tablette chocolat noir 90% (21% MG) (90% cacao)	Dark chocolate bar 90% (21% fat) (90% cocoa)	+	0	0	-	st	/	/	st	/	st	/	/	/	st	/	/	st	st	/	st	/	-B	-B	st	-	-	18	d		
2025	117741	Tablette chocolat framboise (31% MG) (>20% cacao)	Raspberry chocolate bar (31% fat) (>20% cocoa)	-	0	0	-	-A	/	/	-A	/	-A	/	/	/	-A	/	/	-A	-A	/	-A	/	-A	-A	-A	-	-	18	d		
2025	117742	Tablette chocolat au lait (42% MG) (>20% cacao)	Milk chocolate bar (42% fat) (>20% cocoa)	-	0	0	-	-A	/	/	-B	/	-B	/	/	/	-B	/	/	-A	-A	/	-A	/	-A	-A	-A	-	-	18	d		
2025	119548	Gâteau cacao coconut fourré au lait et noix de coco (22,60% MG)	Coconut cake filled with milk and coconut (22.60% fat)	-	0	0	-	-A	/	/	-A	/	-A	/	/	/	-A	/	/	/	/	/	/	/	-A	-A	-A	-	-	18	d		
2025	119549	Bouchées chocolat au lait noisettes et gaufrette (42,7% MG)	Milk chocolate bites with hazelnuts and wafer (42.7% fat)	-	0	0	-	-A	/	/	-A	/	-A	/	/	/	-A	/	/	/	/	/	/	/	-A	-A	-A	-	-	18	d		
2025	119550	Barre chocolatée, chocolat au lait (35% MG)	Milk chocolate bar with fondant milk heart (35% fat)	-	0	0	-	st	/	/	st	/	-C	/	/	/	st	/	/	/	/	/	/	/	st	st	st	-	-	18	d		
2025	119551	Tablette chocolat noir 70% (46%MG) (70% cacao)	Dark chocolate bar 70% (46% fat) (70% cocoa)	-	0	0	-	st	/	/	st	/	st	/	/	/	st	/	/	/	/	/	/	/	st	st	st	-	-	18	d		
2025	119552	Barre au chocolat avec gaufrette (26%MG) (68,20% cacao)	Chocolate bar with wafer (26% fat) (68, 20% cocoa)	-	0	0	-	-C	/	/	-B	/	st	/	/	/	st	/	/	/	/	/	/	-B	-B	-B	-	-	18	d			
2025	119553	Muffin fourré à la pâte à tartiner noisette et cacao	Muffin filled with hazelnut and cocoa spread	-	0	0	-	-B	/	/	B	/	-B	/	/	/	st	/	/	/	/	/	/	st	st	st	-	-	18	d			

RAW MATERIAL AND FINISH PRODUCTS FROM CHOCOLATE INDUSTRY (up to 375 g) – Protocol ¹² - Extension No 15																																
Year of analysis	Sample N°	Product (french name)	Product	ISO 6579-1*	Alternative method: GENE-UP <i>Salmonella</i>																						Category	Type				
					Pre-warmed BPW 1/10 + supplement 22 h at 37°C +72h at 5 ± 3°C																											
				Result	PCR-BPW 72 h (GU lysis kit)			PCR-Lysate 72 h (GU lysis kit)			Direct streaking						Subculture SX2						Confirmation final result	Final result		Agreement						
					Cp	Tm	Result	Cp	Tm	Result	ChromID <i>Salmonella</i>				XLD	ASAP		SALMA		6 h at 41.5 ± 1.0°C				24 h at 41.5 ± 1.0°C					BPW	Lysate	BPW	Lysate
											Typical colonies	Before purif	Typical colonies	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Typical colonies	Typical colonies	Typical colonies	Typical colonies		Typical colonies								
												Latex													Typical colonies	Typical colonies						
2025	117635	Muffin fourré à la pâte à tartiner noisette et cacao	Muffin filled with hazelnut and cocoa spread	-	30.00	65.58	+	29.87	65.29	+	+1/2	+	+M	+1/2	+	+M	+	/	/	/	/	/	/	+	+	+	PD	PD	18	d		
2025	117730	Pâte à tartiner noisettes et cacao (30,90% MG)	Hazelnut and cocoa spread (30.90% fat)	+	30.54	65.32	+	30.69	65.23	+	+m	+	+M	+1/2	+	+1/2	+	/	/	/	/	/	/	+	+	+	PA	PA	18	d		
2025	117732	Barre chocolatée au chocolat au lait et cœur de lait fondant (35% MG)	Milk chocolate bar with fondant milk heart (35% fat)	+	34.17	65.56	+	32.85	65.35	+	+M	+	+p	+p	+	+M	+	/	/	/	/	/	/	+	+	+	PA	PA	18	d		
2025	117733	Gâteau cacao coconut fourré au lait et noix de coco (22,60% MG)	Coconut cake filled with milk and coconut (22.60% fat)	-	31.49	65.55	+	31.92	64.92	+	+m (1)	+	+m	+m	+	+1/2	+	/	/	/	/	/	/	+	+	+	PD	PD	18	d		
2025	117734	Bouchées chocolat au lait noisettes et gaufrette (42,7% MG)	Milk chocolate bites with hazelnuts and wafer (42.7% fat)	+	29.96	65.55	+	29.52	65.02	+	+m	+	+1/2	+1/2	+	+1/2	+	/	/	/	/	/	/	+	+	+	PA	PA	18	d		
2025	117735	Billes de chocolat cacahuete (65% cacao)	Cocoa chocolate balls (65% cocoa)	+	0	0	-	0	0	-	st	/	st	st	/	st	/	/	/	/	/	/	-	-	-	ND	ND	18	d			
2025	117736	Barre au chocolat avec gaufrette (26% MG) (68,20% cacao)	Chocolate bar with wafer (26% fat) (68, 20% cocoa)	-	34.20	65.34	+	34.48	65.37	+	+m	+	+m	+m (9)	+	+m (8)	+	/	/	/	/	/	/	+	+	+	PD	PD	18	d		
2025	117737	Tablette chocolat au riz soufflé (25,90% MG) (29% cacao)	Chocolate bar with puffed rice (25,90% fat) (29% cocoa)	+	0	0	-	0	0	-	st	/	st	st	/	st	/	/	/	/	/	/	-	-	-	ND	ND	18	d			
2025	117738	Tablette chocolat avec noisettes (40% MG) (>20% cacao)	Chocolate bar with hazelnuts (40% fat) (>20% cocoa)	-	28.66	65.90	+	29.42	65.87	+	+m	+	+m	+m	+	+m	+	/	/	/	/	/	/	+	+	+	PD	PD	18	d		
2025	117740	Tablette chocolat noir 90% (21% MG) (90% cacao)	Dark chocolate bar 90% (21% fat) (90% cocoa)	+	0	0	-	0	0	-	st	/	st	st	/	st	/	/	/	/	/	/	-	-	-	ND	ND	18	d			

♦ Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

Category 19: CHOCOLATE AND CONFECTIONARIES (375 g test portion) - ISO protocol without BACTVIAB PMaxx protocol - Extension No 10

CHOCOLATE AND CONFECTIONARIES (375 g test portion) - ISO protocol without BACTVIAB PMaxx protocol - Extension No 10																																																			
Year of analysis	Sample N°	Product	ISO 6579-1♦ method	Alternative method: GENE-UP <i>Salmonella</i>																												Category	Type																		
			Result	Pre-warmed BPW or UHT skimmed milk 1/10 for 20 h or 22 h at 37°C														Pre-warmed BPW or UHT skimmed milk 1/10 for 20 h or 22 h at 37°C + 72 h at 5 ± 3°C																																	
				PCR (without PMAxx)			Confirmation											Final result	Agreement	PCR-BPW 72 h (without PMAxx)			PCR-Lysate 72 h (without PMAxx)			Confirmation											Final result		Agreement												
				Cp	Tm	Result	Direct streaking				Subculture SX2						Confirmation final result			Cp	Tm	Result	Cp	Tm	Result	Direct streaking				Subculture SX2						BPW	Lysate	BPW	Lysate												
							Typical colonies				6 h at 41.5 ± 1.0°C			22 h at 41.5 ± 1.0°C												Typical colonies				6 h at 41.5 ± 1.0°C				22 h at 41.5 ± 1.0°C																	
							ChromID Salmonella	XLD	ASAP	SALMA	XLD	ASAP	SALMA	XLD	ASAP	SALMA										Typical colonies	XLD	ASAP	SALMA	Confirmation final result	Cp			Tm	Result					Cp	Tm	Result	ChromID Salmonella	XLD	ASAP	SALMA	XLD	ASAP	SALMA	XLD	ASAP
2023	3686	Alkalized cocoa powder	+	25.95	65.64	+	+p	+p	+p	+p	+p	+p				+	+	PA	27.17	66.13	+	30.93	65.53	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	19	a											
2023	3687	Fat reduced alkalized cocoa powder	+	23.14	65.40	+	+p	+p (H2S-)	+p	+p	+p (H2S-)	+p	+p				+	+	PA	23.65	65.68	+	30.45	64.89	+	+p	+p (H2S-)	+p	+p	+p (H2S-)	+p	+p				+	+	+	PA	PA	19	a									
2023	3688	Chocolate mass	+	29.78	65.8	+	+p	+M	+p	+p	+p	+p	+p				+	+	PA	33.97	65.69	+	35.55	65.36	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	19	a										
2023	3689	Cocoa butter (non-deodorised)	+	24.95	66.18	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	26.27	66.23	+	28.90	65.62	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	19	a										
2023	3690	Cocoa beans	-	35.54	65.55	+	st	st	st	st	st	st	st	st	st	-	-	NA																				19	a												
2023	3883	Cocoa butter	-	0	0	-	- C	st	st	st	st	st	st	st	st	-	-	NA	0	0																			19	a											
2023	3884	Cocoa mass	+	20.32	65.72	+	+p	+p	+p	+p	+p	+p	+p	+p		+	+	PA	23.73	66.31	+	20.50	65.75	+	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	19	a										
2023	3885	Cocoa liquor	+	22.02	65.61	+	+p	+p	+p	+p	+p	+p	+p	+p		+	+	PA	24.17	66.18	+	21.96	65.88	+	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	19	a										
2023	4192	Cocoa beans	-	0	0	-	st	st	st	st	st	st	st	st	st	-	-	NA																					19	a											
2023	4193	Cocoa liquor	+	24.08	65.97	+	+p	+p	+p	+p	+p	+p	+p	+p		+	+	PA	24.33	66.61	+	24.22	66.37	+	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	19	a										
2023	4292	Cocoa mass	+	23.72	66.39	+	+p	+p	+p	+p	+p	+p	+p	+p		+	+	PA	23.56	66.39	+	23.83	66.65	+	+M	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	19	a										
2023	4293	Cocoa butter	+	25.55	66.12	+	+p	+p (H2S-)	+p	+p	+p (H2S-)	+p	+p	+p		+	+	PA	25.27	66.10	+	25.77	66.27	+	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	19	a										
2023	4294	Cocoa powder	-	0	0	-	st	st	st	st	st	st	st	st	st	-	-	NA																					19	a											
2023	4306	Cocoa powder	-	0	0	-	-B	st	st	st	st	st	st	st	st	-	-	NA																						19	a										
2023	5075	Cocoa liquor	-	0	0	-	st	st	st	st	st	st	st	st	st	-	-	NA																						19	a										
2023	5076	Cocoa liquor	-	0	0	-	st	st	st	st	st	st	st	st	st	-	-	NA																						19	a										
2023	5077	Cocoa butter	-	0	0	-	st	st	st	st	st	st	st	st	st	-	-	NA																						19	a										
2023	5078	Cocoa mass	-	0	0	-	st	st	st	st	st	st	st	st	st	-	-	NA																						19	a										
2023	4943	Cocoa beans	-	0	0	-	st	st	st	st	st	st	st	st	st	-	-	NA																						19	a										
2023	4944	Cocoa liquor	+	24.94	65.97	+	+p	+p	+p	+p	+p	+p	+p	+p		+	+	PA	24.09	66.46	+	24.67	66.31	+	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	19	a										
2023	3691	White chocolate	+	0/36.07/0	0/65.85/0	- /+/-	+m	+m (2)	+m	+m	+m	+p	+p		+	-	ND FN(alt)	0/0/35.75	0/0/65.67	-/-/+	0/0/0	0/0/0	-/-	+p	+p	+p	+p	+p	+p	+p				+	-	-	ND FN(alt)	ND FN(alt)	19	b											
2023	3692	Dark chocolate	+	25.85	65.98	+	+p	+p	+p	+p	+p	+p	+p		+	+	PA	26.01	66.16	+	30.01	65.91	+	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	19	b											
2023	3693	Milk chocolate	+	35.75	65.73	+	+M	+M	+M	+m	+p	+p				+	+	PA	34.46	65.03	+	0/35.24/35.57	0/65.73/65.69	- /+/-	+m	+m	+m	+p	+m	+p	+p				+	+	-	PA	ND FN(alt)	19	b										
2023	3920	Dark chocolate (50% cocoa)	+	25.00	66.20	+	+p	+p	+p	+p	+p	+p				+	+	PA	27.84	66.66	+	28.94	65.25	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	19	b											
2023	3921	Dark chocolate (48% cocoa)	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																				19	b											

* Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

ADRIA
Summary report (Version 0) - 37°C
GENE-UP® *Salmonella* (BIO 12/38 - 06/16)

CHOCOLATE AND CONFECTIONARIES (375 g test portion) - ISO protocol without BACTVIAB PMaxx protocol - Extension No 10																																									
Year of analysis	Sample N°	Product	ISO 6579-1♦ method	Alternative method: GENE-UP <i>Salmonella</i>																												Category	Type								
			Result	Pre-warmed BPW or UHT skimmed milk 1/10 for 20 h or 22 h at 37°C														Pre-warmed BPW or UHT skimmed milk 1/10 for 20 h or 22 h at 37°C + 72 h at 5 ± 3°C																							
				PCR (without PMAxx)			Confirmation										Final result	Agreement	PCR-BPW 72 h (without PMAxx)			PCR-Lysate 72 h (without PMAxx)			Confirmation										Final result		Agreement				
				Cp	Tm	Result	Direct streaking				Subculture SX2								Cp	Tm	Result	Cp	Tm	Result	Direct streaking				Subculture SX2						BPW	Lysate	BPW	Lysate			
							6 h at 41.5 ± 1.0°C				22 h at 41.5 ± 1.0°C		Confirmation final result	6 h at 41.5 ± 1.0°C											22 h at 41.5 ± 1.0°C		Confirmation final result														
							Typical colonies				Typical colonies			Typical colonies		Typical colonies									Typical colonies																
ChromID Salmonella	XLD	ASAP	SALMA				XLD	ASAP	SALMA	XLD	ASAP	SALMA		XLD	ASAP	SALMA																									
2023	3930	Milk chocolate-coated crispy balls	+	31.47	65.64	+	+p	+p	+p	+p	+p	+p				+	+	PA	33.00	65.80	+	34.49	65.50	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	19	c	
2023	4194	Chocolate bar with wafer, caramel, and cereal	+	29.99	66.16	+	+m	+1/2	+M	+M	+M	+M				+	+	PA	30.05	65.68	+	29.98	66.16	+	+m	+1/2	+m	+ 1/2	+M	+M	+ 1/2				+	+	+	PA	PA	19	c
2023	4195	Milk and chocolate snack with a crispy wafer	+	27.96	66.23	+	+p	+p	+p	+p	+p	+p				+	+	PA	27.85	66.50	+	27.78	66.28	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	19	c	
2023	4196	Small crunchy candies coated with chocolate	+	28.28	66.10	+	+p	+p	+p	+p	+p	+p				+	+	PA	28.79	66.40	+	28.13	66.38	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	19	c	
2023	4197	Hard caramel candy covered with chocolate	-	0	0	-	- B	- B	- B	- B				-A	-B	-B	-	-	NA																			19	c		
2023	4198	Wafer covered in milk chocolate	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																			19	c		
2023	4199	Chocolate-coated peanut butter cups	+	30.34	66.21	+	+p	+p	+p	+p	+p	+p				+	+	PA	30.64	65.79	+	30.18	66.19	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	19	c	
2023	4299	Chocolate-coated candy with peanuts (26%fat)	+	30.64	66.40	+	+p	+p	+p	+p	+p	+p				+	+	PA	29.22	66.16	+	30.42	66.37	+	+p	+M	+p	+p	+p	+p	+p				+	+	+	PA	PA	19	c
2023	4300	Chocolate bar with caramel and crispy biscuit (35% fat)	+	30.24	65.89	+	+p	+p	+p	+p	+p	+p				+	+	PA	30.25	66.22	+	30.74	66.21	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	19	c	
2023	4301	Chocolate bar filled with coconut (26% MG)	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																			19	c		
2023	4304	Milk and chocolate snack with a crispy wafer	-	0	0	-	st	-B	-B	-B				-B	-C	-B	-	-	NA																			19	c		
2023	4457	Hard caramel candy covered with chocolate	+	25.64	66.24	+	+1/2	+M	+M	+p	+p	+p				+	+	PA	21.77	66.24	+	26.44	66.55	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	19	c	

CHOCOLATE AND CONFECTIONARIES (375 g test portion) - ISO protocol without BACTVIAB PMaxx protocol - Extension No 10																																										
Year of analysis	Sample N°	Product	ISO 6579-1♦ method	Alternative method: GENE-UP <i>Salmonella</i>																												Category	Type									
			Result	Pre-warmed BPW or UHT skimmed milk 1/10 for 20 h or 22 h at 37°C														Pre-warmed BPW or UHT skimmed milk 1/10 for 20 h or 22 h at 37°C + 72 h at 5 ± 3°C																								
				PCR (without PMAxx)			Confirmation										Final result	Agreement	PCR-BPW 72 h (without PMAxx)			PCR-Lysate 72 h (without PMAxx)			Confirmation										Final result		Agreement					
				Cp	Tm	Result	Direct streaking				Subculture SX2								Cp	Tm	Result	Cp	Tm	Result	Direct streaking				Subculture SX2						BPW	Lysate	BPW	Lysate				
							6 h at 41.5 ± 1.0°C				22 h at 41.5 ± 1.0°C		Confirmation final result	6 h at 41.5 ± 1.0°C											22 h at 41.5 ± 1.0°C		Confirmation final result															
							Typical colonies				Typical colonies			Typical colonies	Typical colonies										Typical colonies			Confirmation final result														
							ChromID Salmonella	XLD	ASAP	SALMA	XLD	ASAP		SALMA	XLD	ASAP									SALMA	XLD			ASAP	SALMA	XLD			ASAP					SALMA	XLD	ASAP	SALMA
2023	4458	Wafer covered in milk chocolate	+	28.30	66.05	+	+m	+M	+M	+M	+M	+M	+M			+	+	PA	25.36	65.39	+	28.93	66.16	+	+p	+p	+p	+p	+M	+ 1/2	+ 1/2			+	+	+	PA	PA	19	c		
2023	4808	Chocolate bar with wafer, caramel, and cereal	-	0	0	-	-C	st	-B	-C				-A	-B	-B	-	-	NA																				19	c		
2023	4809	Milk chocolate-coated crispy balls	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																					19	c	
2023	5080	Chocolate-coated peanut butter cups	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																						19	c
2023	5081	Chocolate bar with nougat, caramel, and peanuts	-	0	0	-	-C	-C	-C	-C				-A	-A	-A	-	-	NA																						19	c

Category 20: INGREDIENTS (375 g test portion) - ISO protocol without BACTVIAB PMaxx protocol - Extension No 10

INGREDIENTS (375 g test portion) - ISO protocol without BACTVIAB PMaxx protocol - Extension No 10																																										
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			Result	Pre-warmed BPW or UHT skimmed milk 1/10 for 20 h or 22 h at 37°C															Pre-warmed BPW or UHT skimmed milk 1/10 for 20 h or 22 h at 37°C + 72 h at 5 ± 3°C																							
				PCR (without PMAxx)			Confirmation									Final result	Agree - ment	PCR-BPW 72 h (without PMAxx)			PCR-Lysate 72 h (without PMAxx)			Confirmation										Final result		Agreement						
				Cp	Tm	Result	Direct streaking				Subculture SX2							Confirmation final result	Cp	Tm	Result	Cp	Tm	Result	Direct streaking				Subculture SX2					BPW	Lysate	BPW	Lysate					
							Typical colonies				6 h at 41.5 ± 1.0°C			22 h at 41.5 ± 1.0°C											Typical colonies				6 h at 41.5 ± 1.0°C									22 h at 41.5 ± 1.0°C		Confirmation final result		
							ChromID Salmonella	XLD	ASAP	SALMA	XLD	ASAP	SALMA	XLD	ASAP										SALMA	Typical colonies			Typical colonies									Typical colonies				
																										XLD	ASAP	SALMA	XLD	ASAP	SALMA	XLD	ASAP					SALMA	XLD		ASAP	SALMA
2023	3694	Egg white powder	+	20.59	65.51	+	+M	+1/2	+p	+p	+1/2	+M	+p				+	+	PA	20.57	65.65	+	29.27	65.97	+	+M	+m	+p	+p	+M	+p	+p				+	+	+	PA	PA	20	a
2023	3695	Egg white powder	+	20.88	64.91	+	+p	+p (H2S-)	+p	+p	+p (H2S-)	+p	+p				+	+	PA	22.20	65.79	+	29.79	65.90	+	+p	+m (H2S-)	+p	+p	+p (H2S-)	+p	+p				+	+	+	PA	PA	20	a
2023	3696	Egg yolk powder	+	22.32	65.28	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	21.52	64.97	+	30.51	66.18	+	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	20	a
2023	3697	Egg powder	+	21.21	65.26	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	21.64	65.65	+	31.46	66.12	+	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	20	a
2023	3698	Egg powder	+	21.44	65.12	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	22.02	65.22	+	30.03	65.28	+	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	20	a
2023	4200	Egg albumin	+	21.18	66.15	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	21.43	66.24	+	20.91	65.91	+	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	20	a
2023	4302	Egg yolk powder	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																					20	a	
2023	4835	Pasteurized egg yolk	+	29.90	66.04	+	+p	+p	+p	+p	+p	+p					+	+	PA	29.11	65.72	+	32.73	66.20	+	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	20	a
2023	4836	Pasteurized egg yolk	+	30.68	65.87	+	+p	+p	+p	+p	+p	+p					+	+	PA	29.64	65.42	+	33.09	65.90	+	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	20	a
2023	4837	Pasteurized liquid whole egg	+	22.99	66.01	+	+p	+p	+p	+p	+p	+p					+	+	PA	23.16	65.74	+	31.02	66.20	+	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	20	a
2023	4838	Pasteurized liquid whole egg	+	26.12	66.10	+	+p	+p	+p	+p	+p	+p					+	+	PA	25.82	65.56	+	32.71	66.08	+	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	20	a
2023	5082	Pasteurized egg yolk	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																					20	a	
2023	5083	Pasteurized egg yolk	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																					20	a	
2023	5084	Pasteurized liquid whole egg	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																					20	a	
2023	5085	Pasteurized liquid whole egg	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																					20	a	
2023	4949	Egg white powder	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																					20	a	
2023	4950	Whole egg powder	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																					20	a	
2023	4951	Whole egg powder	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																					20	a	
2023	4952	Egg albumin	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																					20	a	
2023	4953	Egg yolk powder	+(S.Typhimurium)	35.14	65.51	+	+M	+p	+p	+p	+p	+p	+p	+p	+p	+	+	PA	28.50	65.44	+	34.52	65.26	+	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	20	a	

* Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

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				PCR (without PMAxx)			Confirmation										Final result	Agree - ment	PCR-BPW 72 h (without PMAxx)			PCR-Lysate 72 h (without PMAxx)			Confirmation										Final result		Agreement													
				Cp	Tm	Result	Direct streaking				Subculture SX2								Cp	Tm	Result	Cp	Tm	Result	Direct streaking				Subculture SX2						Confirmation final result	BPW	Lysate	BPW	Lysate											
							Typical colonies				6 h at 41.5 ± 1.0°C			22 h at 41.5 ± 1.0°C											Typical colonies				6 h at 41.5 ± 1.0°C				22 h at 41.5 ± 1.0°C																	
							ChromID Salmonella	XLD	ASAP	SALMA	XLD	ASAP	SALMA	XLD	ASAP	SALMA									XLD	ASAP	SALMA	XLD	ASAP	SALMA			XLD	ASAP						SALMA	XLD	ASAP	SALMA	XLD	ASAP	SALMA	XLD	ASAP	SALMA	Confirmation final result
2023	3699	Maltodextrin	+	19.65	65.57	+	+m	+m (H2S-)	+M	+p	+p (H2S-)	+M	+p						+	+	PA	20.08	65.63	+	30.91	65.31	+	+m	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	20	b						
2023	3700	Lactose	-	0	0	-	st	st	st	st				st	st	st	-	-	NA	0	0																			20	b									
2023	3877	Buttermilk powder	+	23.10	65.00	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	25.55	65.85	+	23.27	65.19	+	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	20	b								
2023	3878	Lactose	+	20.99	65.99	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	19.57	65.52	+	20.88	65.95	+	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	20	b								
2023	3879	Whole milk powder	+	0/0/0	0/0/0	-/-	+p	+p (1)	+p (5)	+p				+p	+p	+p	+	-	ND FN(alt)	33.67/ 25.58/ 25.32	64.89/ 65.40/ 64.89	+/+ +	35.74/ 35.56/ 35.99	65.09/ 64.70/ 64.94	+/+ +	st	st	st	st				st	st	st	-	-	-	PA FP(alt)	ND	20	b								
2023	3880	Calcium caseinate	+	21.97	65.26	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	21.57	64.83	+	21.89	65.23	+	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	20	b								
2023	3881	Whey protein concentrate	-	30.74/ 30.98/ 32.77	65.39/ 65.50/ 65.64	+/+ +	- A	- A	- A	- A	- A	- A	- A	- A	- A	- A	-	-	PD FP(alt)	30.73/ 31.05/ 32.90	65.13/ 65.04/ 65.37	+/+ +	30.73/ 30.90/ 30.89	65.51/ 65.49/ 65.38	+/+ +	- B	- A	- A	- A							-	-	-	PD FP(alt)	PD FP(alt)	20	b								
2023	3882	Skimmed yoghurt powder	+	24.68	65.41	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	23.11	65.62	+	24.49	65.67	+	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	20	b								
2023	4201	Yoghurt powder	+	21.22	65.76	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	21.02	65.72	+	21.17	65.92	+	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	20	b								
2023	4202	Milk powder (26% fat)	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																						20	b								
2023	4312	Lactose	+	21.61	65.96	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	21.22	65.24	+	21.60	65.77	+	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	20	b								
2023	4313	Whey protein	+	21.45	65.93	+	+m	+M	+M	+p	+p	+p	+p				+	+	PA	23.09	65.73	+	21.75	65.94	+	+M	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	20	b								
2023	4314	Maltodextrin	+	20.20	66.30	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	20.43	65.96	+	20.19	66.05	+	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	20	b								
2023	4459	Cream powder	+	27.28	65.36	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	27.80	65.57	+	27.69	65.67	+	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	20	b								
2023	4810	Cream powder	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																						20	b								
2023	4811	Yoghourt powder	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																						20	b								
2023	4812	Half skimmed milk powder	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																						20	b								
2023	4813	Maltodextrin	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																						20	b								
2023	4814	Calcium caseinate	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																						20	b								
2023	4815	Whey	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																						20	b								
2023	4816	Whey protein	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																						20	b								
2023	3871	Tapioca	-	0	0	-	- A	- A	- A	- A				- A	- A	- A	-	-	NA																						20	c								
2023	3872	Peanut butter	+	25.28	65.76	+	+m	+M	+ 1/2	+m	+ 1/2	+m	+m				+	+	PA	25.61	65.56	+	25.49	66.07	+	+m	+M	+ 1/2	+ 1/2	+ 1/2	+M	+ 1/2				+	+	+	PA	PA	20	c								
2023	3873	Corn starch	-	0	0	-	- B	- A	- A	- A				st	st	st	-	-	NA																						20	c								
2023	3874	Rice starch	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																						20	c								
2023	3875	Soy lecithin	+	26.61	65.22	+	- A	+ 1/2	+ 1/2	+ 1/2	+ 1/2	+M				+	+	PA	25.58	64.71	+	0/ 33.44	0/65.77	i/+	+m	+ 1/2	+ 1/2	+M	+M	+ 1/2	+M				+	+	+	PA	PA	20	c									
2023	3876	Marzipan	-	0	0	-	- C	- B	- B	st				- A	- A	- A	-	-	NA																						20	c								

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			PCR (without PMAxx)			Confirmation									Final result	Agree - ment	PCR-BPW 72 h (without PMAxx)			PCR-Lysate 72 h (without PMAxx)			Confirmation									Final result		Agreement										
			Cp	Tm	Result	Direct streaking				Subculture SX2							Cp	Tm	Result	Direct streaking				Subculture SX2						BPW	Lysate	BPW	Lysate											
						Typical colonies				6 h at 41.5 ± 1.0°C			22 h at 41.5 ± 1.0°C							Typical colonies				Typical colonies			6 h at 41.5 ± 1.0°C							22 h at 41.5 ± 1.0°C			Confirmation final result							
						ChromID Salmonella	XLD	ASAP	SALMA	XLD	ASAP	SALMA	XLD	ASAP						SALMA	XLD	ASAP	SALMA	XLD	ASAP	SALMA	XLD							ASAP	SALMA	XLD		ASAP	SALMA	XLD	ASAP	SALMA	Confirmation final result	
2023	4203	Sunflower lecithin	-	0	0	-	- C	- A	- B	- B				-A	-A	-A	-	-	NA																			20	c					
2023	4204	Dextrose	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																				20	c				
2023	4205	Glucose	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																					20	c			
2023	4206	Almond and hazelnut praline	+	29.63	65.87	+	+p	+p	+p	+p	+p	+p				+	+	PA	29.17	66.21	+	29.90	66.17	+	+p	+p	+	+p	+p	+M	+M				+	+	+	PA	PA	20	c			
2023	4307	Tapioca	-	0	0	-	-A	-A	-A	-A				-A	-A	-A	-	-	NA																					20	c			
2023	4308	Corn starch	+	22.02	66.14	+	+p	+p	+p	+p	+p	+p				+	+	PA	21.77	66.10	+	22.28	66.27	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	20	c				
2023	4309	Rice starch	+	20.45	66.01	+	+p	+p	+p	+p	+p	+p				+	+	PA	20.13	65.75	+	20.63	65.84	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	20	c				
2023	4310	Marzipan	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																						20	c		
2023	4311	Soy lecithin	+	0/0/0	0/0/0	-/-/-	-A	-A	-A	-A				+ M	+M	+M	+	-	ND FN(alt)	0/0/0	0/0/0	-/-/-	0/0/0	0/0/0	-/-/-	-B	-B	-B	-B	-A	-A	-A	+ M	+1/2	+M	+	-	-	ND FN(alt)	ND FN(alt)	20	c		
2023	4460	Soya lecithin	-	0	0	-	-A	-A	-A	-A				-A	-A	-A	-	-	NA																						20	c		
2023	4461	Dextrose	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																							20	c	
2023	4462	Glucose	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																							20	c	
2023	4947	Marzipan	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																								20	c
2023	4948	Sunflower lecithin	+	25.16	65.55	+	+M	+M	+M	+M	+M	+M				+	+	PA	27.09	65.56	+	25.41	65.63	+	+p	+1/2	+M	+M	+M	+M	+M				+	+	+	PA	PA	20	c			
2023	4954	Dextrose	+	19.66	65.18	+	+p	+p	+p	+p	+p	+p				+	+	PA	19.55	65.86	+	19.70	65.12	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	20	c				
2023	4955	Glucose	+	20.07	65.23	+	+p	+p	+p	+p	+p	+p				+	+	PA	19.87	66.30	+	20.25	65.97	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	20	c				
2023	4956	Tapioca	+	23.34	65.41	+	+m	+M	+M	+1/2	+M	+M	+M				+	+	PA	23.74	65.69	+	23.26	66.29	+	+1/2	+M	+M	+M	+M	+p	+p				+	+	+	PA	PA	20	c		
2023	4957	Corn starch	+	22.69	65.63	+	+M	+p	+p	+p	+p	+p	+p				+	+	PA	22.75	65.18	+	22.44	65.07	+	+M	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	20	c		

Category 21: PET FOOD FOR CAT AND DOG (up to 375 g) - ISO protocol - With BACTVIAB PMAxx - Extension No 12

PET FOOD FOR CAT AND DOG (up to 375 g) - ISO protocol - With BACTVIAB PMAxx - Extension No 12																																										
Year of analysis	Sample N°	Product	ISO 579-1* method	Alternative method: GENE-UP <i>Salmonella</i>																												Category	Type									
			Result	Pre-warmed BPW for 20 h at 37°C														Pre-warmed BPW for 20 h or 22 h at 37°C +72 h at 5 ± 3°C																								
				PCR (with PMAxx)			Confirmation										Final result	Agree ment	PCR- BPW 72 h (with PMAxx)			PCR- Lysate 72 h (with PMAxx)			Confirmation									Final result		Agreement						
							Direct streaking				Subculture SX2														Direct streaking				Subculture SX2													
				Typical colonies							6 h at 41.5 ± 1.0°C			22 h at 41.5 ± 1.0°C					Typical colonies			Typical colonies							6 h at 41.5 ± 1.0°C					22 h at 41.5 ± 1.0°C			Confirmation final result					
							Cp	Tm	Result	ChromID	XLD	ASAP	SALMA	XLD	ASAP	SALMA									XLD	ASAP	SALMA	Confirmation final result	Cp	Tm	Result			Cp	Tm	Result		ChromID <i>Salmonella</i>	XLD	ASAP	SALMA	XLD
				Typical colonies	Typical colonies	Typical colonies													Typical colonies	Typical colonies	Typical colonies																					
2023	5632	Raw material, peas proteins	-	0	0	-	st	st	st	st				st	st	st			-	-	NA																			21	a	
2023	5633	Raw material, flour	-	0	0	-	-C	-C	st	-C				st	st	st	-	-	NA																			21	a			
2023	5634	Raw material (textured peas proteins)	+	24.75	66.37	+	+M	+p	+p	+p	+p	+p				+	+	PA	24.03	66.19	+	25.33	65.34	+	+M	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	21	a	
2023	5635	Raw material (soya cake)	+	27.95	66.25	+	+p	+M	+p	+p	+p	+p				+	+	PA	27.25	65.89	+	29.09	65.50	+	+M	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	21	a	
2023	5636	Raw material (soya cake)	-	0	0	-	-A	-B	-A	-A				-A	-A	-A	-	-	NA																			21	a			
2023	5637	Raw material (soya cake)	-	0	0	-	-A	-A	-A	-A				-A	-A	-A	-	-	NA																			21	a			
2023	5638	Raw material (pet food)	+	26.47	66.02	+	+p	+p	+p	+p	+p	+p				+	+	PA	26.03	66.24	+	28.60	65.91	+	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	21	a	
2023	5639	Raw material (pet food)	-	0	0	-	-A	-B	-B	-A				-B	-A	-B	-	-	NA																			21	a			
2023	5640	Raw material (grain cereals mix))	-	0	0	-	-A	-B	-B	-A				-A	-A	-B	-	-	NA																			21	a			
2023	5641	Raw material (soya)	-	0	0	-	-A	-A	-A	-A				-A	-B	-B	-	-	NA																			21	a			
2023	5642	Raw material, peas proteins	-	0	0	-	-B	-B	-B	st				-A	-B	st	-	-	NA																			21	a			
2023	5643	Raw material (animal proteins)	+	30.04	56.17	+	+m	+m	+m	+m	+m	+m				+	+	PA	30.74	65.90	+	31.61	56.13	+	+m	+m	+m	+m	+m	+m	+m				+	+	+	PA	PA	21	a	
2023	5934	Raw material (rapeseed)	-	0	0	-	-B	-B	-B	-B				-B	-B	-B	-	-	NA																			21	a			
2023	5935	Raw material (peas starch)	-	0	0	-	-A	-A	-A	-A				-A	-B	-B	-	-	NA																			21	a			
2023	5936	Raw material (peas proteins)	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																			21	a			
2023	5937	Raw material (animal flour)	+	27.51	65.86	+	+M	+p	+p	+m	+M	+p	+M				+	+	PA	27.23	65.71	+	28.95	65.83	+	+M	+M	+M	+M	+M	+m	+M				+	+	+	PA	PA	21	a
2023	5938	Raw material (animal flour)	+	27.21	65.86	+	+M	+p	+p	+p	+p	+p	+p				+	+	PA	26.86	65.92	+	28.21	66.06	+	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	21	a
2023	5939	Raw material	+	28.75	65.67	+	-A	+d	+m	+m	+M	+M	+M				+	+	PA	29.58	65.66	+	31.98	65.59	+	+m	+m	+m	-B	+m	+m	+m				+	+	+	PA	PA	21	a
2023	5940	Raw material (animal flour)	-	0	0	-	-B	-B	-A	-B				-B	-B	-A	-	-	NA	0	0																		21	a		

* Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

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				PCR (with PMAxx)			Confirmation											PCR-BPW 72 h (with PMAxx)	PCR-Lysate 72 h (with PMAxx)			Confirmation										Final result		Agreement								
							Direct streaking				Subculture SX2											Direct streaking				Subculture SX2																
				Typical colonies							6 h at 41.5 ± 1.0°C			22 h at 41.5 ± 1.0°C					Typical colonies							6 h at 41.5 ± 1.0°C			22 h at 41.5 ± 1.0°C													
							Cp	Tm	Result	Typical colonies				Typical colonies			Typical colonies					Typical colonies			Typical colonies			Confirmation final result	BPW			Lysate	BPW	Lysate								
				ChromID	XLD	ASAP				SALMA	XLD	ASAP	SALMA	XLD	ASAP	SALMA	ChromID <i>Salmonella</i>		XLD	ASAP	SALMA	XLD	ASAP	SALMA	XLD	ASAP	SALMA															
2023	5941	Raw material (rapeseed cake)	+	31.28	64.76	+	-A	-d	+m (1)	+1/2d	+m	+m	+m				+		+	PA	0/40.00/40.00	0/60.19/60.35	-/+/+	35.22	64.87	+	-B	-B	-A	-A	+1/2	+m	+m (2)				+	-	+	ND FN(alt)	PA	21
2023	6006	Raw material (peas starch)	+	26.23	66.15	+	-A	-A	-A	-A	+m	+m	+m				+	+	PA	0/29.17/031.75 (w/o PMAxx)	66.00/0/64.46	-/+/- +	0/0/032,25 (w/o PMAxx)	0/0/065.58	-/-/- +	-A	+md	-A	-A	+m	+m	+m	+m	+m	+	-	-	ND FN(alt)	ND FN(alt)	21	a	
2023	6007	Raw material (rapeseed)	+	0/0/00 (w/o Pmaxx)	0/0/00	-/-/- -	-A	-A	-A	-A	-A	-A	-A	+m	+m	+m	+	-	ND FN(alt)	00 (w/o PMAxx)	00	- -	00 (w/o PMAxx)	00	- -	-A	-A	-A	-A	-A	-A	+m	+m	+m	+	-	-	ND FN(alt)	ND FN(alt)	21	a	
2023	6008	Raw material	-	0	0	-	-A	-A	-A	-A				-A	-A	-A	-	-	NA																					21	a	
2023	5371	Feed for cat with chicken	+	27.05	65.60	+	+p	+M	+p	+p	+p	+p	+p				+	+	PA	26.78	65.67	+	22.79	65.40	+	+M	+M	+p	+p	+p	+p	+p				+	+	+	PA	PA	21	b
2023	5372	Sausage for cat with chicken and beef	+	24.79	65.43	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	24.11	66.25	+	19.67	65.21	+	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	21	b
2023	5373	Sausage for cat with turkey and chicken	+	24.46	66.27	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	24.81	66.23	+	20.21	65.08	+	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	21	b
2023	5374	Mini fillet in fish sauce for cats	+	24.27	66.15	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	24.44	66.22	+	20.10	65.08	+	+p	+p	+p	+p	+M	+p	+M				+	+	+	PA	PA	21	b
2023	5375	Mini fillet in beef sauce for cats	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																					21	b	
2023	5376	Feed for dogs with chicken without cereals	+	25.28	65.46	+	+p	+p	+p	+M	+p	+p	+p				+	+	PA	25.58	66.26	+	21.03	65.78	+	+M	+M	+p	+p	+p	+p	+p				+	+	+	PA	PA	21	b
2023	5377	Feed for dogs with chicken	+	26.42	65.91	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	26.45	66.13	+	23.52	65.58	+	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	21	b
2023	5378	Sausage for small dog with chicken and turkey	+	23.55	66.46	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	23.08	65.46	+	19.03	65.56	+	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	21	b
2023	5379	Sausage for dog with chicken	+	23.62	65.98	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	24.07	66.31	+	19.55	65.97	+	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	21	b
2023	5380	Raw meat for pet	+	33.83	65.67	+	+m	+m	+m	+m	+m	+1/2	+m				+	+	PA	34.93	66.13	+	32.68	65.68	+	+m	-A	+m	+m	+m	+m	+1/2				+	+	+	PA	PA	21	b
2023	5463	Fresh cooked meat for cat	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																					21	b	
2023	5464	Fresh cooked meat for cat	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																					21	b	
2023	5465	Pâté for pet	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																					21	b	

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							Direct streaking				Subculture SX2														Direct streaking				Subculture SX2													
				Cp	Tm	Result					Typical colonies				Typical colonies				Typical colonies			Confirmation final result	Cp	Tm					Result			Cp	Tm	Result	Typical colonies				Typical colonies			Confirmation final result
							ChromID	XLD	ASAP	SALMA	XLD	ASAP	SALMA	XLD	ASAP	SALMA			XLD	ASAP	SALMA				XLD	ASAP	SALMA	XLD							ASAP	SALMA						
ChromID <i>Salmonella</i>	XLD	ASAP	SALMA				XLD	ASAP	SALMA	XLD	ASAP	SALMA	XLD	ASAP	SALMA	XLD			ASAP	SALMA	XLD				ASAP	SALMA																
2023	5466	Balls for small dogs, chicken, carrots, cranberries	-	0	0	-	st	-B	-B	-B				st	st	st	-	-	NA																				21	b		
2023	5467	Feed for dog, chicken, vegetables	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																				21	b		
2023	5468	Sausage for small dog	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																				21	b		
2023	5469	Sausage for small dog , chicken and turkey	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																				21	b		
2023	5470	Raw meat for pet	-	0	0	-	-B	-B	-B	-B				-B	-B	-B	-	-	NA																				21	b		
2023	5733	Feed for cat with chicken	+	27.19	66.10	+	+p	+M	+p	+p	+p	+p				+	+	PA	27.84	66.00	+	30.66	66.12	+	+M	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	21	b	
2023	5734	Sausage for cat (beef, chicken)	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																					21	b	
2023	5361	Dry kibbles for young dogs	+	33.49	65.52	+	+p	+p	+p	+p	+p	+p				+	+	PA	33.02	66.19	+	34.98	65.70	+	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	21	c	
2023	5362	Dry kibbles for dogs	-	0	0	-	-A	-A	-A	-A				-A	-A	-A	-	-	NA																					21	c	
2023	5363	Dry kibbles for cat	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																					21	c	
2023	5364	Dry kibbles for cat	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																					21	c	
2023	5369	Sweets for dog	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																					21	c	
2023	5370	Sweets for cat	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																					21	c	
2023	5624	Dry kibbles for dog with chicken	+	26.03	66.28		+p	+p	+p	+p	+p	+p				+	+	PA	26.92	66.39	+	29.10	66.36	+	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	21	c	
2023	5625	Dry kibbles for cat with salmon	+	24.62	66.07		+p	+p	+p	+p	+p	+p				+	+	PA	25.73	65.97	+	27.24	66.00	+	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	21	c	
2023	5626	Dry kibbles for cat with beef, chicken and liver	-	0	0	-	st	st	st	st				st	st	st	-	-	NA																					21	c	
2023	5630	Salmon cat treats	+	27.58	65.30	+	+p	+p	+p	+p	+p	+p				+	+	PA	28.49	66.14	+	30.88	66.07	+	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	21	c	
2023	5631	Beef dog treats	-	0	0	-	-B	-B	st	st				st	st	st	-	-	NA																					21	c	
2023	5928	Pellets for dog	+	26.67	65.59	+	+p	+p	+p	+p	+p	+p				+	+	PA	27.29	66.49	+	28.55	66.12	+	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	21	c	
2023	5929	Pellets for cats	+	25.94	65.89	+	+p	+p	+p	+p	+p	+p				+	+	PA	26.90	66.10	+	27.24	65.04	+	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	21	c	
2023	5933	Treats for dog	+	25.55	66.10	+	+M	+p	+M	+p	+p	+p	+M				+	+	PA	25.99	66.21	+	26.85	65.99	+	+M	+p	+M	+p	+p	+p	+p				+	+	+	PA	PA	21	c
2024	53	Pellets for dog	+	26.42	66.26	+	+p	+p	+p	+p	+p	+p				+	+	PA	28.24	66.54	+	27.60	65.43	+	+p	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	21	c	
2024	54	Pellets for dog	+	24.64	65.88	+	+p	+p	+p	+p	+p	+p				+	+	PA	26.26	66.22	+	26.47	65.82	+	+p	+p	+p	+p	+p	+1/2	+p				+	+	+	PA	PA	21	c	

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						Direct streaking				Subculture SX2													Direct streaking				Subculture SX2															
				6 h at 41.5 ± 1.0°C						22 h at 41.5 ± 1.0°C			6 h at 41.5 ± 1.0°C					22 h at 41.5 ± 1.0°C																								
				Cp	Tm	Result	Typical colonies				Typical colonies			Typical colonies				Confirmation final result	Cp	Tm	Result	Cp	Tm	Result	Typical colonies				Typical colonies							Confirmation final result						
							ChromID	XLD	ASAP	SALMA	XLD	ASAP	SALMA	XLD	ASAP										SALMA	XLD	ASAP	SALMA	ChromID <i>Salmonella</i>								XLD	ASAP	SALMA	XLD	ASAP	SALMA
2024	55	Pellets for puppy	-	0	0	-	st	st	st	st				st	st			st	-	-	NA																					21
2024	56	Pellets for kitten	+	25.58	66.25	+	+m	+M	+M	+M	+M	+1/2	+1/2				+	+	PA	27.19	66.25	+	26.72	66.01	+	+1/2	+M	+M	+M	+M	+p	+M				+	+	+	PA	PA	21	c
2024	57	Pellets for cats	+	23.28	65.34	+	+p	+p	+p	+p	+p	+p	+p				+	+	PA	25.56	66.23	+	24.20	65.06	+	+p	+p	+p	+p	+p	+p				+	+	+	PA	PA	21	c	
2024	58	Pellets for cats	+	30.01	66.09	+	+m	+m	+1/2	+m	+M	+M	+p				+	+	PA	31.69	66.05	+	30.64	65.88	+	+m	+1/2	+m	+M	+p	+p	+p				+	+	+	PA	PA	21	c

Appendix 5 – Relative level of detection study: raw data

> Ready-to-eat and ready-to-reheat food: macedoine / S. Mbandaka Ad914 – Standard protocol 18 h	242
> Meat products: Ground beef / S. Typhimurium A00C060 – Standard protocol 18 h	243
> Dairy products: Milk powder / S. Anatum Ad298 – Standard protocol 18 h	244
> Dairy products: Raw milk / S. Ohio Ad1482 – Standard protocol 18 h	245
> Vegetables and seafood: Fresh spinach / S. Virchov Ad1721 – Standard protocol 18 h	246
> Ingredients and specific products: Pasteurized whole egg / S. Havana Ad1728 – Standard protocol 18 h	247
> Pet food: Pellets for dog / S. Derby Ad1878 – Standard protocol 18 h	248
> Production environmental samples: Process water / S. Livingstone A00E058 – Standard protocol 18 h	249
> Cocoa and chocolates: Dark chocolate / S. Typhimurium Ad2034 – Specific protocol ④ 20 h	250
> Cocoa and chocolates: Dark chocolate / S. Typhimurium Ad2034 – ISO Protocol 20 h	251
> Milk powders: Infant formula with probiotics / S. Mikawasima Ad1811 – Specific protocol ⑤ 20 h	252
> Pet foods: Pellets for dog / S. Branderup F286 – Specific protocol ⑥ 20 h	253
> Pet food: Pellets for dog / S. Branderup F286 – ISO Protocol 20 h	254
> Milk powders, infant formula and infant cereals without probiotics including ingredients: Infant cereals without probiotics / S. Panama Ad1733 – Protocol 18 h	255
> Infant formula and infant cereals with probiotics: Infant formula with probiotics / S. Livingstone Ad2705 – Specific protocol ⑦ 20 h	256
> Milk powders, infant formula and infant cereals with or without probiotics including ingredients: Infant formula with probiotics / S. Mbandaka Ad1810 – Specific protocol ⑧ 20 h	257
> Milk powders, infant formula and infant cereals with or without probiotics including ingredients: Maltodextrin / S. Cerro Ad2152 – Specific protocol ④ 20 h	258
> Primary production samples (excluding drinking water): Bootsocks / S. Djugu Ad2969 - Specific protocol ⑨ 20 h	259
> Milk powders, infant formula and infant cereals with or without probiotic, ELN: Infant formula with probiotics / S. Livingstone Ad2705 – Specific protocol ⑩ 20 h	260
> Ingredients for chocolate industry: Cocoa powder / S. Typhimurium Ad3034– Specific protocol ⑪ 10 h & 22 h	261
> Ingredients for chocolate industry: Cocoa powder / S. Typhimurium Ad3034– Specific protocol ⑫ 22 h	262
> Raw materials and finished products from the chocolate industry: Milk chocolate bar with a smooth hazelnut filling and a crispy wafer / S. Braenderup Ad1661– Specific protocol ⑪ 10 h	263
> Raw materials and finished products from the chocolate industry: Milk chocolate bar with a smooth hazelnut filling and a crispy wafer / S. Braenderup Ad1661– Specific protocol ⑪ 22 h	264
> Raw materials and finished products from the chocolate industry: Milk chocolate bar with a smooth hazelnut filling and a crispy wafer / S. Braenderup Ad1661– Specific protocol ⑫ 22 h	265
> Chocolate and confectionaries: Cocoa powder / S. Typhimurium Ad3034 – ISO protocol	266
> Ingredients: Maltodextrin / S. Cerro Ad2152 – ISO protocol	267
> Pet food for cat and dog: Dry kibbles for dog / S. Derby Ad1878 – ISO protocol 20 h	268

Ready-to-eat and ready-to-reheat food: macedoine / S. Mbandaka Ad914 – Standard protocol 18 h

Matrix : Macédoine (25 g test portion) - Standard protocol
Strain : *Salmonella* Mbandaka Ad914

Aerobic mesophilic flora: 300 CFU/g

N° sample	Level	Contamination level- (cfu/sample)	Reference method: ISO 6579♦					Number positive samples/Total	Alternative method: GENE-UP <i>Salmonella</i> (18 h at 37°C)										Number positive samples/Total
			RVS broth		MKTTn broth		Final result		PCR			Direct streaking				Subculture	Final result		
			XLD	ASAP	XLD	ASAP			CP	TM	Result	ChromID <i>Salmonella</i>	XLD	ASAP	Result				
6846	0	/	-	-	-	-	-	0/5	0	0	-	-	-	-	-	-	0/5		
6847			st	st	-	-	-		0	0	-	-	-	-	-	-			
6848			st	st	st	st	-		0	0	-	-	-	-	-	-			
6849			st	st	st	st	-		0	0	-	-	-	-	-	-			
6850			st	st	-	st	-		0	0	-	-	-	-	-	-			
6851	Low	1.1	+p	+p	+M	+p	+	9/20	24.51	63.98	+	+M	+M	+M	+	+	+	9/20	
6852			+p	+M	+M	+m	+		25.71	65.94	+	+m	+1/2	+m	+	+	+		
6853			+p	+p	+p	+M	+		25.41	66.17	+	+M	+M	+M	+	+	+		
6854			-	-	-	-	-		0	0	-	-	-	-	-	-	-		
6855			+p	+p	+M	+M	+		24.55	63.83	+	+M	+M	+M	+	+	+		
6856			-	-	-	-	-		0	0	-	-	-	-	-	-	-		
6857			+p	+p	+M	+M	+		24.64	65.81	+	+M	+M	+M	+	+	+		
6858			st	st	st	st	-		0	0	-	-	-	-	-	-	-		
6859			st	st	-	-	-		0	0	-	-	-	-	-	-	-		
6860			+p	+p	+p	+1/2	+		25.16	65.71	+	+1/2	+1/2	+m	+	+	+		
6861			-	-	-	-	-		0	0	-	-	-	-	-	-	-		
6862			st	st	-	-	-		0	0	-	-	-	-	-	-	-		
6863			+p	+p	+p	+M	+		24.9	66.6	+	+1/2	+M	+M	+	+	+		
6864			st	st	st	st	-		0	0	-	-	-	-	-	-	-		
6865			-	-	-	-	-		0	0	-	-	-	-	-	-	-		
6866			st	-	-	-	-		0	0	-	-	-	-	-	-	-		
6867			st	st	-	-	-		0	0	-	-	-	-	-	-	-		
6868			+p	+p	+p	+p	+		23.95	65.65	+	+1/2	+M	+M	+	+	+		
6869			+p	+p	+p	+p	+		24.47	66.08	+	+1/2	+M	+M	+	+	+		
6870			-	st	-	-	-		0	0	-	-	-	-	-	-	-		
6871	High	2.7	+p	+p	+M	+M	+	18/20	24.21	65.79	+	+1/2	+M	+1/2	+	+	+	18/20	
6872			+p	+p	+M	+M	+		24.73	65.87	+	+1/2	+M	+m	+	+	+		
6873			+p	+p	+M	+M	+		24.08	65.82	+	+M	+M	+1/2	+	+	+		
6874			+p	+p	+p	+p	+		25.09	65.88	+	+M	+M	+M	+	+	+		
6875			+p	+p	+p	+M	+		24.5	65.97	+	+1/2	+M	+M	+	+	+		
6876			+p	+p	+p	+p	+		24.26	65.77	+	+M	+M	+M	+	+	+		
6877			st	st	st	st	-		0	0	-	-	-	-	-	-	-		
6878			+p	+p	+M	+1/2	+		24.57	66.08	+	+1/2	+M	+1/2	+	+	+		
6879			+p	+p	+p	+p	+		24.72	65.86	+	+M	+M	+M	+	+	+		
6880			+p	+p	+M	+M	+		24.45	65.93	+	+M	+M	+M	+	+	+		
6881			+p	+p	+p	+p	+		24.29	65.92	+	+M	+M	+M	+	+	+		
6882			+p	+p	+p	+p	+		24.23	65.82	+	+M	+M	+M	+	+	+		
6883			+p	+M	+M	+m	+		25.55	65.84	+	+m	+1/2	+m	+	+	+		
6884			+p	+p	+p	+p	+		24.55	65.78	+	+M	+M	+M	+	+	+		
6885			st	-	-	-	-		0	0	-	-	-	-	-	-	-		
6886			+p	+p	+p	+p	+		24.49	65.89	+	+M	+M	+M	+	+	+		
6887			+p	+p	+M	+p	+		24.52	65.9	+	+M	+M	+M	+	+	+		
6888			+p	+p	+p	+p	+		24.84	65.99	+	+M	+M	+M	+	+	+		
6889			+p	+p	+p	+p	+		24.91	65.86	+	+M	+M	+M	+	+	+		
6890			+p	+p	+p	+p	+		24.69	65.98	+	+M	+M	+M	+	+	+		

* Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

Meat products: Ground beef / *S. Typhimurium* A00C060 – Standard protocol 18 h

Matrix : Ground beef (25 g test portion) - Standard protocol
Strain : *Salmonella* Typhimurium A00C060

Aerobic mesophilic flora : 2.1 x 10⁶ CFU/g

N° sample	Level	Contamination level- (cfu/sample)	Reference method: ISO 6579*					Number positive samples/Total	Alternative method: GENE-UP <i>Salmonella</i> (18h at 37°C)								Number positive samples/Total	
			RVS broth		MKTTn broth		Final result		PCR			Direct streaking				Subculture		Final result
			XLD	ASAP	XLD	ASAP			CP	TM	Result	ChromID Salmonella	XLD	ASAP	Result			
1152	0	/	-	-	-	-	-	0/5	0	0	-	-	-	-	-	-	0/5	
1153			-	-	-	-	-		0	0	-	-	-	-	-	-		
1154			-	-	-	-	-		0	0	-	-	-	-	-	-		
1155			-	-	-	-	-		0	0	-	-	-	-	-	-		
1156			-	-	+md/-	-	-		0	0	-	-	+md/-	-	-	-		-
1157	Low	1.0	+p	+p	+M	+p	+	15/20	27.92	66.15	+	+md/+	+md/+	+M	+	/	+	15/20
1158			-	-	+md/-	-	-		0	0	-	-	+md/-	-	-	-	-	
1159			+p	+p	+p	+M	+		26.73	66.68	+	+m	+M	+M	+	/	+	
1160			+p	+p	+p	+p	+		23.87	65.96	+	+m	+M	+M	+	/	+	
1161			+p	+p	+M	+M	+		25.27	65.79	+	+m	+M	+M	+	/	+	
1162			+M	+p	+M	+p	+		25.17	65.89	+	+m	+M	+M	+	/	+	
1163			+M	+p	+p	+p	+		25.14	65.88	+	+md/+	+M	+M	+	/	+	
1164			+p	+p	+M	+p	+		24.93	65.88	+	+m	+M	+M	+	/	+	
1165			-	-	-	-	-		0	0	-	-	-	-	-	-	-	
1166			+p	+M	+p	+M	+		26.65	65.78	+	+m	+M	+M	+	/	+	
1167			+p	+p	+M	+M	+		24.72	65.84	+	+m	+M	+M	+	/	+	
1168			+p	+p	+p	+M	+		25.89	66.26	+	+md/+	+1/2	+M	+	/	+	
1169			-	-	-	-	-		0	0	-	-	+md/-	-	-	-	-	
1170			-	-	-	-	-		0	0	-	-	-	-	-	-	-	
1171			+p	+p	+p	+p	+		25.79	65.98	+	+md/+	+1/2	+M	+	/	+	
1172			+p	+p	+p	+p	+		26.49	65.89	+	+m	+M	+M	+	/	+	
1173			-	-	-	-	-		0	0	-	-	-	-	-	-	-	
1174			+p	+M	+M	+p	+		25.34	65.49	+	+m	+M	+M	+	/	+	
1175			+M	+p	+M	+M	+		26.45	66.12	+	+md/+	+M	+M	+	/	+	
1176			+p	+p	+M	+M	+		24.66	65.99	+	+m	+M	+M	+	/	+	
1177	High	2.8	+p	+p	+M	+p	+	20/20	24.83	65.92	+	+m	+M	+M	+	/	+	20/20
1178			+p	+p	+M	+M	+		24.45	66.04	+	+m	+M	+M	+	/	+	
1179			+p	+p	+p	+p	+		24.68	65.94	+	+m	+M	+M	+	/	+	
1180			+p	+p	+p	+M	+		25.69	65.98	+	+m	+M	+M	+	/	+	
1181			+p	+p	+M	+p	+		23.96	66	+	+m	+M	+M	+	/	+	
1182			+p	+p	+M	+M	+		24.83	65.8	+	+m	+M	+M	+	/	+	
1183			+p	+p	+M	+M	+		25.61	66.08	+	+m	+M	+M	+	/	+	
1184			+M	+p	+M	+p	+		24.11	66.01	+	+m	+M	+M	+	/	+	
1185			+p	+p	+M	+p	+		24.81	65.85	+	+m	+M	+M	+	/	+	
1186			+p	+p	+M	+M	+		24.63	65.97	+	+m	+M	+M	+	/	+	
1187			+p	+p	+p	+p	+		24.73	65.92	+	+m	+M	+M	+	/	+	
1188			+p	+p	+M	+M	+		25.23	65.87	+	+m	+M	+M	+	/	+	
1189			+p	+p	+p	+M	+		25.71	65.95	+	+m	+1/2	+M	+	/	+	
1190			+p	+p	+M	+M	+		23.93	65.79	+	+m	+M	+M	+	/	+	
1191			+M	+p	+M	+M	+		24.49	66.13	+	+m	+M	+M	+	/	+	
1192			+p	+p	+p	+M	+		23.68	66.06	+	+m	+M	+M	+	/	+	
1193			+p	+p	+p	+M	+		25.08	65.89	+	+md/+	+M	+M	+	/	+	
1194			+p	+p	+p	+M	+		25.98	66.05	+	+m	+M	+M	+	/	+	
1195			+p	+p	+M	+M	+		23.75	65.99	+	+m	+M	+M	+	/	+	
1196			+p	+p	+p	+M	+		24.07	65.96	+	+m	+M	+M	+	/	+	

* Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

Dairy products: Milk powder / S. Anatum Ad298 – Standard protocol 18 h

Matrix : Milk powder (25 g test portion) - Standard protocol
Strain : *Salmonella* Anatum 298

Aerobic mesophilic flora : 4.4 x 10² CFU/g

N° sample	Level	Contamination level- cfu/sample)	Reference method: ISO 6579*					Number positive samples/Total	Alternative method: GENE-UP <i>Salmonella</i> (18 h at 37°C)									Number positive samples/Total
			RVS broth		MKTTn broth		Final result		PCR			Direct streaking				Subculture	Final result	
			XLD	ASAP	XLD	ASAP			CP	TM	Result	ChromID Salmonella	XLD	ASAP	Result			
4574	0	/	st	st	st	st	-	0/5	0	0	-	st	st	st	-	-	-	0/5
4575			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
4576			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
4577			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
4578			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
5547	Low	0.4	+p	+p	+p	+p	+	13/20	30.6	60.4	+	+p	+p	+p	+	+	+	13/20
5548			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
5549			+p	+p	+p	+p	+		29.46	65.44	+	+p	+p	+p	+	+	+	
5550			+p	+p	+p	+p	+		27.39	65.86	+	+p	+p	+p	+	+	+	
5551			+p	+p	+p	+p	+		26.8	65.72	+	+p	+p	+p	+	+	+	
5552			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
5553			+p	+p	+p	+p	+		29.85	65.41	+	+p	+p	+p	+	+	+	
5554			+p	+p	+p	+p	+		30.19	65.49	+	+p	+p	+p	+	+	+	
5555			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
5556			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
5557			+p	+p	+p	+p	+		30.75	65.54	+	+p	+p	+p	+	+	+	
5558			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
5559			+p	+p	+p	+p	+		31.56	65.36	+	+p	+p	+p	+	+	+	
5560			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
5561			+p	+p	+p	+p	+		26.66	65.55	+	+p	+p	+p	+	+	+	
5562			+p	+p	+p	+p	+		27.59	65.63	+	+p	+p	+p	+	+	+	
5563			+p	+p	+p	+p	+		27.74	65.68	+	+p	+p	+p	+	+	+	
5564			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
5565			+p	+p	+p	+p	+		34.65	65.69	+	+p	+p	+p	+	+	+	
5566			+p	+p	+p	+p	+		29.99	65.29	+	+p	+p	+p	+	+	+	
4599	High	1.0	st	st	st	st	-	13/20	0	0	-	st	st	st	-	-	-	11/20
4600			+p	+p	+p	+p	+		29.54	65.61	+	+p	+p	+p	+	+	+	
4601			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
4602			+p	+p	+p	+p	+		29.11	65.61	+	+p	+p	+p	+	+	+	
4603			st	st	st	st	-		40/0/0	66.17/0/0	+/-/-	st	st	st	- (MSRV -)	-	-	
4604			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
4605			+p	+p	+p	+p	+		28.4	65.46	+	+p	+p	+p	+	+	+	
4606			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
4607			+p	+p	+p	+p	+		40	65.56	+	+p	+p	+p	+	+	+	
4608			+p	+p	+p	+p	+		23.57	66.08	+	+p	+p	+p	+	+	+	
4609			+p	+p	+p	+p	+		0/0/0	0/0/0	-/-/-	st	st	st	-	+	-	
4610			+p	+p	+p	+p	+		31.26	65.25	+	+p	+p	+p	+	+	+	
4611			+p	+p	+p	+p	+		34.71	65.35	+	+p	+p	+p	+	+	+	
4612			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
4613			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
4614			+p	+p	+p	+p	+		35.15	65.56	+	+p	+p	+p	+	+	+	
4615			+p	+p	+p	+p	+		32.29	65.72	+	+p	+p	+p	+	+	+	
4616			+p	+p	+p	+p	+		35.23	65.55	+	st	+	(10)	+	+	-	
4617			+p	+p	+p	+p	+		27.62	66.02	+	+p	+p	+p	+	+	+	
4618			+p	+p	+p	+p	+		33.72	65.57	+	+p	+p	+p	+	+	+	

* Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

Dairy products: Raw milk / S. Ohio Ad1482 – Standard protocol 18 h

Matrix : Raw milk (25 g test portion) - Standard protocol
Strain : *Salmonella* Ohio Ad 1482

Aerobic mesophilic flora : 3.0 x 10⁸ CFU/g

N° sample	Level	Contamination level- (cfu/sample)	Reference method: ISO 6579♦					Number positive samples/Total	Alternative method: GENE-UP <i>Salmonella</i> (18 h at 37°C)									Number positive samples/Total
			RVS broth		MKTTn broth		Final result		PCR			Direct streaking				Subculture	Final result	
			XLD	ASAP	XLD	ASAP			CP	TM	Result	ChromID <i>Salmonella</i>	XLD	ASAP	Result			
1624	0	/	-	-	-	-	-	0/5	0	0	-	-	-	-	-	-	-	0/5
1625			-	-	-	-	-		0	0	-	-	-	-	-	-	-	
1626			-	-	-	-	-		0	0	-	-	-	-	-	-	-	
1627			-	-	-	-	-		0	0	-	-	-	-	-	-	-	
1628			-	-	-	-	-		0	0	-	-	-	-	-	-	-	
1784	Low	1.3	-	-	-	-	-	11/20	0	0	-	-	-	-	-	-	-	8/20
1785			-	-	+md/-	-	-		0	0	-	-	-	-	-	-	-	
1786			+M	+p	+M	+M	+		32.09	66.2	+	-	-	+md/+	+	+	+	
1787			-	-	-	-	-		0	0	-	-	+md/-	-	-	-	-	
1788			-	+md(2)/+	+M	+M	+		0/33.29/0	0/66.62/0	-/+/-	-	-	-	-	+	-	
1789			-	-	-	-	-		0	0	-	-	-	-	-	-	-	
1790			-	-	-	-	-		0	0	-	-	-	-	-	-	-	
1791			+M	+p	+M	+p	+		32.24	66.41	+	-	-	-	+	+	+	
1792			+M	+p	+M	+M	+		31.54	66.47	+	-	-	-	-	+	+	
1793			-	-	+md/-	-	-		0	0	-	-	-	-	-	-	-	
1794			-	-	-	-	-		0	0	-	-	-	-	-	-	-	
1795			-	-	-	-	-		0	0	-	-	-	-	-	-	-	
1796			+M	+M	+1/2	+M	+		32.44	66.42	+	-	-	-	-	+	+	
1797			-	+md/+	+md/-	+md/+	+		0/0/33.86	0/0/66.38	-/-/+	-	-	-	-	+	-	
1798			+M	+M	+M	+M	+		32.27	66.29	+	-	-	-	-	+	+	
1799			-	-	+md/-	-	-		0	0	-	-	+md/-	-	-	-	-	
1800			+M	+p	+M	+M	+		31.6	66.42	+	+md/-	-	+md/+	+	+	+	
1801			+1/2	+1/2	+m	+m	+		0	66.54	+	-	-	-	-	+	+	
1802			+M	+M	+m	+M	+		0/33.66/0	0/66.43/0	-/+/-	-	-	-	-	+	-	
1803			+M	+p	+1/2	+1/2	+		32.9	66.47	+	-	-	-	-	+	+	
1804	High	3.9	+1/2	+1/2	+1/2	+1/2	+	16/20	31.77	66.2	+	-	-	-	+	+	+	13/20
1805			-	-	-	-	-		0	0	-	-	-	-	-	-	-	
1806			-	-	-	-	-		0	0	-	-	-	-	-	-	-	
1807			+M	+M	+M	+M	+		32.57	66.34	+	-	-	-	-	+	+	
1808			+m	+M	+M	+M	+		32.1	66.36	+	-	-	-	-	+	+	
1809			+M	+p	+M	+M	+		31.48	66.02	+	-	+md/-	-	+	+	+	
1810			-	+md/+	+m	+m	+		0/32.83/0	0/66.63/0	-/+/-	-	-	-	-	+	-	
1811			+M	+M	+1/2	+M	+		32.44	66.2	+	-	-	-	-	+	+	
1812			+1/2	+M	+1/2	+M	+		31.72	65.98	+	-	-	-	-	+	+	
1813			-	-	-	-	-		0	0	-	-	-	-	-	-	-	
1814			-	-	-	-	-		0	0	-	-	-	-	-	-	-	
1815			+M	+M	+M	+M	+		31.59	66.14	+	-	-	-	+	+	+	
1816			+M	+M	+M	+M	+		0/0/0	0/0/0	-/-/-	-	-	-	+	+	-	
1817			+1/2	+1/2	+M	+M	+		31.87	66.01	+	-	+md/-	+md/+	+	+	+	
1818			+md/-	+m/+	+M	+M	+		32.08	66	+	-	-	-	-	+	+	
1819			+m	+1/2	+1/2	+M	+		31.96	66.03	+	-	-	-	-	+	+	
1820			+M	+M	+M	+M	+		31.44	65.87	+	-	-	+md/+	-	+	+	
1821			+M	+M	+M	+M	+		31.47	66.05	+	-	-	-	-	+	+	
1822			+m/+	+1/2	+M	+M	+		0/0/32.91	0/0/66.57	-/-/+	-	-	-	-	+	-	
1823			+m	+1/2	+M	+M	+		31.58	66.21	+	-	-	+md/+	-	+	+	

* Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

Vegetables and seafood: Fresh spinach / S. Virchov Ad1721 – Standard protocol 18 h

Matrix : Fresh spinach (25 g test portion) - Standard protocol
Strain : *Salmonella* Virchow Ad1721

Aerobic mesophilic flora : 4.0 x 10⁷ CFU/g

N° sample	Level	Contamination level- (cfu/sample)	Reference method: ISO 6579♦					Number positive samples/Total	Alternative method: GENE-UP <i>Salmonella</i> (18 h at 37°C)									Number positive samples/Total
			RVS broth		MKTTn broth		Final result		PCR			Direct streaking			Subculture	Final result		
			XLD	ASAP	XLD	ASAP			CP	TM	Result	ChromID <i>Salmonella</i>	XLD	ASAP			Result	
2176	0	/	-	-	-	-	-	0/5	0	0	-	-	-	-	-	-	0/5	
2177			st	st	-	-	-		0	0	-	-	-	-	-	-		
2178			st	-	-	-	-		0	0	-	-	-	+(1)d	-	-		-
2179			-	-	-	-	-		0	0	-	-	-	+(2)d	-	-		-
2180			st	st	-	-	-		0	0	-	-	-	-	-	-		-
2201	Low	0.6	-	st	+m (<i>Api=Citrobacter youngae</i>)	-	-	10/20	0	0	-	-	-	-	-	-	9/20	
2202			-	-	-	-	-		0	0	-	-	-	-	-	-		-
2203			+M	+M	+M	+M	+		24.28	67.19	+	+M	+M	+M	+	+		+
2204			+M	+p	+M	+M	+		25.23	67.24	+	+M	+M	+m	+	+		+
2205			+p	+p	+M	+M	+		0/0/0	0/0/0	-/-/-	-	-	-	-	+		-
2206			+p	+p	+M	+M	+		27.81	67.12	+	+m/+	+m/+	+m	+	+		+
2207			-	st	-	st	-		0	0	-	-	-	-	-	-		-
2208			+p	+p	+M	+M	+		25.98	67.41	+	+M	+M	+1/2	+	+		+
2209			+p	+p	+M	+M	+		23.42	67.01	+	+M	+M	+M	+	+		+
2210			-	st	-	-	-		0	0	-	-	-	-	-	-		-
2211			+p	+p	+M	+M	+		25.03	67.09	+	+1/2	+M	+M	+	+		+
2212			+M	+p	+M	+M	+		24.7	67.05	+	+1/2	+M	+M	+	+		+
2213			-	st	-	-	-		0	0	-	-	-	-	-	-		-
2214			-	-	-	-	-		0	0	-	-	-	-	-	-		-
2215			-	-	-	-	-		0	0	-	-	-	-	-	-		-
2216			-	st	-	-	-		0	0	-	-	-	-	-	-		-
2217			-	-	-	-	-		0	0	-	-	-	-	-	-		-
2218			+M	+M	+M	+M	+		27.35	67.62	+	+M	+M	+M	+	+		+
2219			+M	+p	+M	+M	+		27.49	67.56	+	+1/2	+M	+M	+	+		+
2220			-	-	-	-	-		0	0	-	-	-	-	-	-		-
2181	High	1.8	+M	+p	+M	+M	+	16/20	26.43	67.37	+	+m	+1/2	+m/+	+	+	+	14/20
2182			st	st	-	-	-		0	0	-	-	-	-	-	-	-	
2183			-	-	-	-	-		0	0	-	-	-	-	-	-	-	
2184			+M	+M	+M	+M	+		24.66	67.52	+	+M	+M	+m	+	+	+	
2185			-	-	-	-	-		0	0	-	-	-	-	-	-	-	
2186			+p	+p	+M	+M	+		25.41	67.38	+	+1/2	+M	+1/2	+	+	+	
2187			+M	+M	+M	+M	+		24.35	67.33	+	+M	+M	+m	+	+	+	
2188			+M	+p	+M	+M	+		24.02	67.27	+	+M	+M	+m	+	+	+	
2189			+M	+p	+M	+M	+		25.45	67.31	+	+M	+M	+m	+	+	+	
2190			-	-	-	-	-		0	0	-	-	-	-	-	-	-	
2191			+p	+p	+m	+M	+		25.93	67.58	+	+M	+M	+1/2	+	+	+	
2192			+p	+p	+M	+M	+		27.51	67.49	+	+m	+M	+m	+	+	+	
2193			+p	+p	+M	+M	+		25.88	67.17	+	+1/2	+M	+1/2	+	+	+	
2194			+M	+p	+M	+M	+		24.81	67.34	+	+1/2	+M	+M	+	+	+	
2195			+M	+M	+M	+M	+		23.47	67.23	+	+M	+M	+M	+	+	+	
2196			+M	+p	+M	+M	+		0/0/0	0/0/0	-/-/-	-	-	-	-	+	-	
2197			+M	+M	+M	+M	+		23.11	67.22	+	+M	+M	+M	+	+	+	
2198			+M	+M	+M	+M	+		24.86	67.1	+	+M	+M	+1/2	+	+	+	
2199			+p	+p	+M	+M	+		0/0/0	0/0/0	-/-/-	-	-	-	-	+	-	
2200			+p	+p	+M	+M	+		26.72	67.38	+	+M	+M	+1/2	+	+	+	

♦ Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

Ingredients and specific products: Pasteurized whole egg / S. Havana Ad1728 – Standard protocol 18 h

Matrix : Pasteurized whole egg (25 g test portion) - Standard protocol
Strain : *Salmonella* Havana Ad1728

Aerobic mesophilic flora : <2.0 x 10² CFU/g

N° sample	Level	Contamination level- (cfu/sample)	Reference method: ISO 6579♦					Number positive samples/Total	Alternative method: GENE-UP <i>Salmonella</i> (18 h at 37°C)										Number positive samples/Total
			RVS broth		MKTTn broth		Final result		PCR			Direct streaking				Subculture	Final result		
			XLD	ASAP	XLD	ASAP			CP	TM	Result	ChromID Salmonella	XLD	ASAP	Result				
4809	0	/	st	st	st	st	-	0/5	0	0	-	st	st	st	-	-	-	0/5	
4810			st	st	st	st	-		0	0	-	st	st	st	-	-	-		
4811			st	st	st	st	-		0	0	-	st	st	st	-	-	-		
4812			st	st	st	st	-		0	0	-	st	st	st	-	-	-		
4813			st	st	st	st	-		0	0	-	st	st	st	-	-	-		
4814	Low	0.6	st	st	st	st	-	7/20	0	0	-	st	st	st	-	-	-	7/20	
4815			+p	+p	+p	+p	+		24.8	65.79	+	+p	+p	+p	+	+	+		
4816			+p	+p	+p	+p	+		24.22	66.01	+	+p	+p	+p	+	+	+		
4817			st	st	st	st	-		0	0	-	st	st	st	-	-	-		
4818			st	st	st	st	-		0	0	-	st	st	st	-	-	-		
4819			st	st	st	st	-		0	0	-	st	st	st	-	-	-		
4820			st	st	st	st	-		0	0	-	st	st	st	-	-	-		
4821			+p	+p	+p	+p	+		25.93	65.89	+	+p	+p	+p	+	+	+		
4822			st	st	st	st	-		0	0	-	st	st	st	-	-	-		
4823			st	st	st	st	-		0	0	-	st	st	st	-	-	-		
4824			st	st	st	st	-		0	0	-	-	st	st	-	-	-		
4825			+p	+p	+p	+p	+		23.55	66.3	+	+p	+p	+p	+	+	+		
4826			st	st	st	st	-		0	0	-	-	-	st	-	-	-		
4827			st	st	st	st	-		0	0	-	st	st	st	-	-	-		
4828			st	st	st	st	-		0	0	-	st	st	st	-	-	-		
4829			+p	+p	+p	+p	+		26.17	65.88	+	+p	+p	+p	+	+	+		
4830			st	st	st	st	-		0	0	-	st	st	st	-	-	-		
4831			st	st	st	st	-		0	0	-	-	-	st	-	-	-		
4832			+p	+p	+p	+p	+		22.86	66.36	+	+p	+p	+p	+	+	+		
4833			+p	+p	+p	+p	+		24.2	66.01	+	+p	+p	+p	+	+	+		
4834	High	1.7	+p	+p	+p	+p	+	13/20	26.29	65.87	+	+p	+p	+p	+	+	+	13/20	
4835			+p	+p	+p	+p	+		25.72	65.84	+	+p	+p	+p	+	+	+		
4836			+p	+p	+p	+p	+		26.25	65.88	+	+p	+p	+p	+	+	+		
4837			+p	+p	+p	+p	+		26.24	65.71	+	+p	+p	+p	+	+	+		
4838			+p	+p	+p	+p	+		25.25	65.88	+	+p	+p	+p	+	+	+		
4839			+p	+p	+p	+p	+		25.56	65.94	+	+p	+p	+p	+	+	+		
4840			st	st	st	st	-		0	0	-	st	st	st	-	-	-		
4841			+p	+p	+p	+p	+		23.7	66.31	+	+p	+p	+p	+	+	+		
4842			st	st	st	st	-		0	0	-	st	st	st	-	-	-		
4843			st	st	st	st	-		0	0	-	st	st	st	-	-	-		
4844			+p	+p	+p	+p	+		26.22	65.77	+	+p	+p	+p	+	+	+		
4845			st	st	st	st	-		0	0	-	st	st	st	-	-	-		
4846			+p	+p	+p	+p	+		25.67	65.76	+	+p	+p	+p	+	+	+		
4847			st	st	st	st	-		0	0	-	st	st	st	-	-	-		
4848			st	st	st	st	-		0	0	-	st	st	st	-	-	-		
4849			+p	+p	+p	+p	+		26.12	66.19	+	+p	+p	+p	+	+	+		
4850			st	st	st	st	-		0	0	-	st	st	st	-	-	-		
4851			+p	+p	+p	+p	+		27.21	66.15	+	+p	+p	+p	+	+	+		
4852			+p	+p	+p	+p	+		26.64	66	+	+p	+p	+p	+	+	+		
4853			+p	+p	+p	+p	+		25.32	65.87	+	+p	+p	+p	+	+	+		

♦ Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

Pet food: Pellets for dog / S. Derby Ad1878 – Standard protocol 18 h

Matrix : Pellets for dog (25 g test portion) - Standard protocol
Strain : *Salmonella* Derby Ad1878

Aerobic mesophilic flora :5.0 x 10² CFU/g

N° sample	Level	Contamination level- (cfu/sample)	Reference method: ISO 6579-1♦					Number positive samples/Total	Alternative method: GENE-UP <i>Salmonella</i> (18h at 37°C)									Number positive samples/Total
			RVS broth		MKTTn broth		Final result		PCR			Direct streaking				Subculture	Final result	
			XLD	ASAP	XLD	ASAP			CP	TM	Result	ChromID Salmonella	XLD	ASAP	Result			
9216	0	/	-	-	-	-	-	0/5	0	0	-	-	-	-	-	-	-	0/5
9217			-	-	-	-	-		0	0	-	-	-	-	-	-	-	
9218			-	-	-	-	-		0	0	-	-	-	-	-	-	-	
9219			-	-	-	-	-		0	0	-	-	-	-	-	-	-	
9220			-	-	-	-	-		0	0	-	-	-	-	-	-	-	
9450	Low	1.7	+M	+M	+M	+M	+	13/20	32.6	66.11	+	-	+md/+	+md/+	+	+	+	13/20
9451			-	-	-	-	-		0	0	-	-	-	-	-	-	-	
9452			-	-	-	-	-		0	0	-	-	-	-	-	-	-	
9453			+M	+M	+M	+M	+		31.58	66	+	-	+md/+	+md/+	+	+	+	
9454			+M	+M	+M	+M	+		31.91	66.05	+	-	-	+md/+	+	+	+	
9455			-	-	-	-	-		0	0	-	-	-	-	-	-	-	
9456			-	-	-	-	-		0	0	-	-	-	-	-	-	-	
9457			+M	+M	+M	+M	+		31.06	66.19	+	+md/+	+md/+	+md/+	+	+	+	
9458			+M	+M	+M	+M	+		31.79	66.16	+	-	-	+md/+	+	+	+	
9459			-	-	-	-	-		0	0	-	-	-	-	-	-	-	
9460			+M	+M	+M	+M	+		32.09	66.19	+	-	-	+md/+	+	+	+	
9461			+M	+M	+M	+M	+		31.61	65.96	+	-	+md/+	+md/+	+	+	+	
9462			+M	+M	+M	+M	+		30.32	65.89	+	-	+md/+	+md/+	+	+	+	
9463			+M	+M	+M	+M	+		30.74	65.91	+	-	+md/+	+md/+	+	+	+	
9464			+M	+M	+1/2	+M	+		31.84	65.8	+	-	-	+md/+	+	+	+	
9465			+M	+M	+M	+M	+		30.52	65.76	+	+md/+	+md/+	+md/+	+	+	+	
9466			-	-	-	-	-		0	0	-	-	-	-	-	-	-	
9467			+M	+M	+M	+M	+		30.67	65.97	+	-	+md/+	+md/+	+	+	+	
9468			-	-	-	-	-		0	0	-	-	-	-	-	-	-	
9469			+M	+M	+M	+M	+		31.33	65.97	+	+md/+	+md/+	+md/+	+	+	+	
9353	High	6.0	+M	+1/2	+M	+M	+	20/20	25.88	66.56	+	-	+m	+m	+	+	+	20/20
9354			+M	+M	+M	+M	+		29.69	66.12	+	-	+md/+	+md/+	+	+	+	
9355			+M	+M	+M	+M	+		26.01	66.34	+	+m	+m	+m	+	+	+	
9356			+M	+M	+M	+M	+		29.06	66.3	+	-	+m	+m	+	+	+	
9357			+M	+M	+M	+M	+		30.54	66.22	+	-	+m	-	+	+	+	
9358			+M	+M	+M	+M	+		25.86	66.32	+	+m	+m	+m	+	+	+	
9359			+M	+M	+M	+M	+		25.74	66.16	+	+m	+m	+m	+	+	+	
9360			+M	+M	+M	+M	+		29.59	66.37	+	+m	+m	+m	+	+	+	
9361			+M	+M	+M	+M	+		26.45	66.23	+	+m	+m	+m	+	+	+	
9362			+M	+p	+M	+M	+		33.08	66.25	+	+m	+m	-	+	+	+	
9363			+p	+M	+M	+M	+		25.69	66.55	+	+m	+m	+m	+	+	+	
9364			+p	+p	+M	+M	+		25.84	65.98	+	+m	+m	+m	+	+	+	
9365			+p	+M	+M	+M	+		26.47	65.96	+	+m	+m	+m	+	+	+	
9366			+M	+p	+M	+M	+		30.78	66.16	+	-	-	+md/+	+	+	+	
9367			+M	+M	+M	+M	+		29.9	65.77	+	-	+m	+md/+	+	+	+	
9368			+M	+p	+M	+M	+		28.23	66.15	+	+m	+m	+m	+	+	+	
9369			+M	+M	+M	+M	+		27.02	66.38	+	+m	+m	+m	+	+	+	
9370			+M	+M	+M	+M	+		28.58	65.97	+	+m	+m	+m	+	+	+	
9371			+M	+M	+M	+M	+		25.86	66.16	+	+m	+m	+m	+	+	+	
9372			+M	+M	+M	+M	+		26.61	66.54	+	+m	+m	+m	+	+	+	

* Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

Production environmental samples: Process water / S. Livingstone A00E058 – Standard protocol 18 h

Matrix : Process water (25 g test portion) Standard protocol
Strain : *Salmonella* Livingstone A00E058

Aerobic mesophilic flora: 3.6 x 10³CFU/g

N° sample	Level	Contamination level- (cfu/sample)	Reference method: ISO 6579♦					Number positive samples/Total	Alternative method: GENE-UP <i>Salmonella</i> (18 h at 37°C)										Number positive samples/Total
			RVS broth		MKTTn broth		Final result		PCR			Direct streaking				Subculture	Final result		
			XLD	ASAP	XLD	ASAP			CP	TM	Result	ChromID Salmonella	XLD	ASAP	Result				
6062	0	/	st	st	st	st	-	0/5	0	0	-	st	st	st	-	-	-	0/5	
6063			st	st	st	st	-		0	0	-	st	st	st	-	-	-		
6064			st	st	st	st	-		0	0	-	st	st	st	-	-	-		
6065			st	st	st	st	-		0	0	-	st	st	st	-	-	-		
6066			st	st	st	st	-		0	0	-	st	st	st	-	-	-		
6067	Low	0.6	+p	+p	+p	+p	+	10/20	21.63	66.41	+	+p	+p	+p	+	+	+	9/20	
6068			+p	+p	+p	+p	+		21.78	66.26	+	+p	+p	+p	+	+	+		
6069			+p	+p	+p	+p	+		21.89	66.51	+	+p	+p	+p	+	+	+		
6070			st	st	st	st	-		0	0	-	st	st	st	-	-	-		
6071			st	st	st	st	-		0	0	-	st	st	st	-	-	-		
6072			st	st	st	st	-		0/0/0	66.02/0/0	+/-/-	st	st	st	-	- (MSRV -)	-		
6073			+p	+p	+p	+p	+		22.2	66.1	+	+p	+p	+p	+	+	+		
6074			st	st	st	st	-		0/0/0	66.49/0/0	+/-/-	st	st	st	-	- (MSRV -)	-		
6075			+p	+p	+p	+p	+		21.14	66.33	+	+p	+p	+p	+	+	+		
6076			st	st	st	st	-		0	0	-	st	st	st	-	-	-		
6077			+p	+p	+p	+p	+		21.98	66.23	+	+p	+p	+p	+	+	+		
6078			st	st	st	st	-		0	0	-	st	st	st	-	-	-		
6079			+p	+p	+p	+p	+		22.12	66.03	+	+p	+p	+p	+	+	+		
6080			st	st	st	st	-		0	0	-	st	st	st	-	-	-		
6081			st	st	st	st	-		0	0	-	st	st	st	-	-	-		
6082			st	st	st	st	-		0	0	-	st	st	st	-	-	-		
6083			+p	+p	+p	+p	+		21.78	66.07	+	+p	+p	+p	+	+	+		
6084			st	st	+p	+p	+		0/0/0	0/0/0	-/-/-	st	st	st	-	+	-		
6085			+p	+p	+p	+p	+		21.73	66.53	+	+p	+p	+p	+	+	+		
6086			st	st	st	st	-		0	0	-	st	st	st	-	-	-		
6087	High	1.7	st	st	st	st	-	9/20	0	0	-	st	-	-	-	-	-	8/20	
6088			+p	+p	+p	+p	+		21.86	65.96	+	+p	+p	+p	+	+	+		
6089			+p	+p	+p	+p	+		21.66	66.38	+	+p	+p	+p	+	+	+		
6090			+p	+p	+p	+p	+		22.43	66.39	+	+p	+p	+p	+	+	+		
6091			st	st	st	st	-		0	0	-	st	st	st	-	-	-		
6092			+p	+p	+p	+p	+		0/0/0	0/0/0	-/-/-	st	st	st	-	+	-		
6093			st	st	st	st	-		0	0	-	st	st	st	-	-	-		
6094			st	st	st	st	-		0	0	-	st	st	st	-	-	-		
6095			st	-	st	-	-		0	0	-	st	st	-	-	-	-		
6096			st	st	st	st	-		0	0	-	st	-	st	-	-	-		
6097			st	st	st	st	-		0	0	-	st	st	st	-	-	-		
6098			+p	+p	+p	+p	+		22.14	66.28	+	+p	+p	+p	+	+	+		
6099			+p	+p	+p	+p	+		21.71	66.1	+	+p	+p	+p	+	+	+		
6100			+p	+p	+p	+p	+		21.18	66.09	+	+p	+p	+p	+	+	+		
6101			st	st	st	st	-		0	0	-	st	st	st	-	-	-		
6102			st	st	st	st	-		0	0	-	st	st	st	-	-	-		
6103			+p	+p	+p	+p	+		21.83	66.06	+	+p	+p	+p	+	+	+		
6104			st	st	st	st	-		0	0	-	st	st	st	-	-	-		
6105			+p	+p	+p	+p	+		22.54	66.08	+	+p	+p	+p	+	+	+		
6106			st	st	st	st	-		0	0	-	st	st	st	-	-	-		

* Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

Cocoa and chocolates: Dark chocolate / *S. Typhimurium* Ad2034 – Specific protocol ④ 20 h

Matrix : Dark chocolate (375 g test portion) – BPW Specific protocol ④
Strain : *Salmonella* Typhimurium Ad2034

Aerobic mesophilic flora : 60 CFU/g

N° sample	Level	Contamination level- (cfu/sample)	Reference method: ISO 6579-1♦					Number positive samples/Total	Alternative method: GENE-UP <i>Salmonella</i> 20 h at 37°C (pre-warmed BPW)								Number positive samples/Total	
			RVS broth		MKTn broth		Final result		PCR			Direct streaking			Subculture	Final result		
			XLD	ASAP	XLD	ASAP			CP	TM	Result	ChromID <i>Salmonella</i>	XLD	ASAP	Result			
8104	0	/	st	st	st	st	-	0/5	0	0	-	st	st	st	-	st	-	0/5
8105			st	st	st	st	-		0	0	-	st	st	st	-	st	-	
8106			st	st	st	st	-		0	0	-	st	st	st	-	st	-	
8107			st	st	st	st	-		0	0	-	st	st	st	-	st	-	
8108			st	st	st	st	-		0	0	-	st	st	st	-	st	-	
8194	Low	0.8	st	st	st	st	-	7/20	0	0	-	st	st	st	-	-	-	4/20
8195			+p	+p	+p	+p	+		0	0	-	st	st	st	-	-	-	
8196			+p	+p	+p	+p	+		0	0	-	-	st	st	-	-	-	
8197			+p	+p	+p	+p	+		0	0	-	st	st	st	-	-	-	
8198			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
8199			+p	+p	+p	+p	+		0	0	-	st	st	st	-	st	-	
8200			st	st	st	st	-		0	0	-	st	-	st	-	st	-	
8201			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
8202			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
8203			st	st	st	st	-		35.33	65.28	+	+p	+p	+p	+	/	+	
8204			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
8205			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
8206			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
8207			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
8208			+p	+p	+p	+p	+		0	0	-	st	st	st	-	-	-	
8209			+p	+p	+p	+p	+		0	0	-	st	st	st	-	-	-	
8210			st	st	st	st	-		30.95	66.61	+	+p	+p	+p	+	/	+	
8211			st	st	st	st	-		30.24	66.26	+	+p	+p	+p	+	/	+	
8212			-	-	-	-	-		27.26	66.35	+	+p	+p	+p	+	/	+	
8213			+p	+p	+p	+p	+		0	0	-	st	st	st	-	-	-	
8084	High	9.8	+p	+p	+p	+p	+	20/20	25.61	66.59	+	+p	+p	+p	+	/	+	20/20
8085			+p	+p	+p	+p	+		24.09	66.24	+	+p	+p	+p	+	/	+	
8086			+p	+p	+p	+p	+		23.99	66.41	+	+p	+p	+p	+	/	+	
8087			+p	+p	+p	+p	+		24.67	66.43	+	+p	+p	+p	+	/	+	
8088			+p	+p	+p	+p	+		24.07	66.38	+	+p	+p	+p	+	/	+	
8089			+p	+p	+p	+p	+		23.56	66.25	+	+p	+p	+p	+	/	+	
8090			+p	+p	+p	+p	+		23.87	66.22	+	+p	+p	+p	+	/	+	
8091			+p	+p	+p	+p	+		23.8	66.73	+	+p	+p	+p	+	/	+	
8092			+p	+p	+p	+p	+		23.95	66.47	+	+p	+p	+p	+	/	+	
8093			+p	+p	+p	+p	+		24.15	65.99	+	+p	+p	+p	+	/	+	
8094			+p	+p	+p	+p	+		23.68	66.08	+	+p	+p	+p	+	/	+	
8095			+p	+p	+p	+p	+		24.24	66.01	+	+p	+p	+p	+	/	+	
8096			+p	+p	+p	+p	+		24.55	66.04	+	+p	+p	+p	+	/	+	
8097			+p	+p	+p	+p	+		24.07	66.09	+	+p	+p	+p	+	/	+	
8098			+p	+p	+p	+p	+		24.09	65.86	+	+p	+p	+p	+	/	+	
8099			+p	+p	+p	+p	+		24.9	66.31	+	+p	+p	+p	+	/	+	
8100			+p	+p	+p	+p	+		23.54	66.29	+	+p	+p	+p	+	/	+	
8101			+p	+p	+p	+p	+		24.05	66.18	+	+p	+p	+p	+	/	+	
8102			+p	+p	+p	+p	+		24.25	66.35	+	+p	+p	+p	+	/	+	
8103			+p	+p	+p	+p	+		23.89	66.16	+	+p	+p	+p	+	/	+	

* Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

Cocoa and chocolates: Dark chocolate / *S. Typhimurium* Ad2034 – ISO Protocol 20 h
 Matrix : Dark chocolate (375 g test portion) – ISO protocol
 Strain : *Salmonella* Typhimurium Ad2034

Aerobic mesophilic flora : 60 CFU/g

N° sample	Level	Contamination level- (cfu/sample)	Reference method: ISO 6579-1*					Number positive samples/Total	Alternative method: GENE-UP <i>Salmonella</i> 20 h at 37°C (ISO Broth)								Number positive samples/Total	
			RVS broth		MKTTn broth		Final result		PCR			Direct streaking				Subculture		Final result
			XLD	ASAP	XLD	ASAP			CP	TM	Result	ChromID <i>Salmonella</i>	XLD	ASAP	Result			
8104	0	/	st	st	st	st	-	0/5	0	0	-	st	st	st	-	st	-	0/5
8105			st	st	st	st	-		0	0	-	st	st	st	-	st	-	
8106			st	st	st	st	-		0	0	-	st	st	st	-	st	-	
8107			st	st	st	st	-		0	0	-	st	st	st	-	st	-	
8108			st	st	st	st	-		0	0	-	st	st	st	-	st	-	
8194	Low	0.8	st	st	st	st	-	7/20	0	0	-	st	st	st	-	st	-	6/20
8195			+p	+p	+p	+p	+		34.92	66.45	+	+p	+p	+p	+	/	+	
8196			+p	+p	+p	+p	+		31.54	66.59	+	+p	+p	+p	+	/	+	
8197			+p	+p	+p	+p	+		0/35.45/0	0/66.61/0	-/+/-	+p	+p	+p	+	+	-	
8198			st	st	st	st	-		0	0	-	st	st	st	-	st	-	
8199			+p	+p	+p	+p	+		28.43	66.42	+	+p	+p	+p	+	/	+	
8200			st	st	st	st	-		0	0	-	st	st	st	-	st	-	
8201			st	st	st	st	-		0	0	-	st	st	st	-	st	-	
8202			st	st	st	st	-		0	0	-	st	st	st	-	st	-	
8203			st	st	st	st	-		0	0	-	st	st	st	-	st	-	
8204			st	st	st	st	-		0	0	-	st	st	st	-	st	-	
8205			st	st	st	st	-		0	0	-	st	st	st	-	st	-	
8206			st	st	st	st	-		0	0	-	st	st	st	-	st	-	
8207			st	st	st	st	-		0	0	-	st	st	st	-	st	-	
8208			+p	+p	+p	+p	+		32.76	66.34	+	+p	+p	+p	+	/	+	
8209			+p	+p	+p	+p	+		31.07	66.58	+	+p	+p	+p	+	/	+	
8210			st	st	st	st	-		0	0	-	st	st	st	-	st	-	
8211			st	st	st	st	-		0	0	-	st	st	st	-	st	-	
8212			-	-	-	-	-		0	0	-	st	st	st	-	st	-	
8213			+p	+p	+p	+p	+		32.63	66.44	+	+p	+p	+p	+	/	+	
8084	High	9.8	+p	+p	+p	+p	+	20/20	27.96	66.65	+	+p	+p	+p	+	/	+	20
8085			+p	+p	+p	+p	+		26.11	66.4	+	+p	+p	+p	+	/	+	
8086			+p	+p	+p	+p	+		26.6	66.51	+	+p	+p	+p	+	/	+	
8087			+p	+p	+p	+p	+		27.91	66.44	+	+p	+p	+p	+	/	+	
8088			+p	+p	+p	+p	+		28.02	66.12	+	+p	+p	+p	+	/	+	
8089			+p	+p	+p	+p	+		25.93	66.16	+	+p	+p	+p	+	/	+	
8090			+p	+p	+p	+p	+		27.72	66.11	+	+p	+p	+p	+	/	+	
8091			+p	+p	+p	+p	+		25.2	66.43	+	+p	+p	+p	+	/	+	
8092			+p	+p	+p	+p	+		25.81	66.35	+	+p	+p	+p	+	/	+	
8093			+p	+p	+p	+p	+		25.44	66.14	+	+p	+p	+p	+	/	+	
8094			+p	+p	+p	+p	+		28.45	66.29	+	+p	+p	+p	+	/	+	
8095			+p	+p	+p	+p	+		26.24	66.5	+	+p	+p	+p	+	/	+	
8096			+p	+p	+p	+p	+		26.92	66.2	+	+p	+p	+p	+	/	+	
8097			+p	+p	+p	+p	+		30.94	66.34	+	+p	+p	+p	+	/	+	
8098			+p	+p	+p	+p	+		30.75	66.2	+	+p	+p	+p	+	/	+	
8099			+p	+p	+p	+p	+		27.64	66.36	+	+p	+p	+p	+	/	+	
8100			+p	+p	+p	+p	+		25.17	66.41	+	+p	+p	+p	+	/	+	
8101			+p	+p	+p	+p	+		24.94	66.2	+	+p	+p	+p	+	/	+	
8102			+p	+p	+p	+p	+		25.29	66.3	+	+p	+p	+p	+	/	+	
8103			+p	+p	+p	+p	+		24.89	66.19	+	+p	+p	+p	+	/	+	

* Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

Milk powders: Infant formula with probiotics / S. Mikawasima Ad1811 – Specific protocol © 20 h

Matrix : Infant formula with probiotics (375 g test portion) Specific protocol ⑤
Strain : *Salmonella* Mikawasima Ad1811

Aerobic mesophilic flora (Lactic): 1.0 x10⁶ CFU/g

N° sample	Level	Contamination level- (cfu/sample)	Reference method: ISO 6579-1♦					Number positive samples/Total	Alternative method: GENE-UP <i>Salmonella</i> BPW + novobiocin 20h at 37°C (dilution 1/4)								Number positive samples/Total	
			RVS broth		MKTTn broth		Final result		PCR			Direct streaking				Subculture		Final result
			XLD	ASAP	XLD	ASAP			CP	TM	Result	ChromID <i>Salmonella</i>	XLD	ASAP	Result			
7976	0	/	st	st	st	st	-	0/5	0	0	-	st	st	st	-	st	-	0/5
7977			st	st	st	st	-		0	0	-	st	st	st	-	st	-	
7978			st	st	st	st	-		0	0	-	st	st	st	-	st	-	
7979			st	st	st	st	-		0	0	-	st	st	st	-	st	-	
7980			st	st	st	st	-		0	0	-	st	st	st	-	st	-	
8146	Low	0.5	+p	+p	+p	+p	+	6/20	23.07	65.98	+	+p	+p	+p	+	+p	+	17/20
8147			st	st	st	st	-		22.81	66.13	+	+p	+p	+p	+	+p	+	
8148			st	st	st	st	-		26.06	65.82	+	+p	+p	+p	+	+p	+	
8149			st	st	st	st	-		22.22	66.34	+	+p	+p	+p	+	+p	+	
8150			st	st	st	st	-		24.7	66.03	+	+p	+p	+p	+	+p	+	
8151			st	st	st	st	-		21.24	66.21	+	+p	+p	+p	+	+p	+	
8152			+p	+p	+p	+p	+		0	0	-	st	st	st	-	st	-	
8153			st	st	st	st	-		27.55	65.68	+	+p	+p	+p	+	+p	+	
8154			+p	+p	+p	+p	+		23.2	66.05	+	+p	+p	+p	+	+p	+	
8155			st	st	st	st	-		21.6	66.17	+	+p	+p	+p	+	+p	+	
8156			+p	+p	+p	+p	+		22.2	66.09	+	+p	+p	+p	+	+p	+	
8157			st	st	st	st	-		23.02	66.17	+	+p	+p	+p	+	+p	+	
8158			+p	+p	+p	+p	+		22.72	65.78	+	+p	+p	+p	+	+p	+	
8159			st	st	st	st	-		22.74	66.25	+	+p	+p	+p	+	+p	+	
8160			st	st	st	st	-		26.26	65.66	+	+p	+p	+p	+	+p	+	
8161			+p	+p	+p	+p	+		28.89	66	+	+p	+p	+p	+	+p	+	
8162			st	st	st	st	-		0	0	-	st	st	st	-	st	-	
8163			st	st	st	st	-		0	0	-	st	st	st	-	st	-	
8164			st	st	st	st	-		25.54	65.95	+	+p	+p	+p	+	+p	+	
8165			st	st	st	st	-		29.68	65.94	+	+p	+p	+p	+	+p	+	
7956	High	2.3	st	st	st	st	-	16/20	20.23	66.44	+	+p	+p	+p	+	+p	+	20/20
7957			+p	+p	+p	+p	+		32.33	65.49	+	+p	+p	+p	+	+p	+	
7958			+p	+p	+p	+p	+		21.12	66.3	+	+p	+p	+p	+	+p	+	
7959			+p	+p	+p	+p	+		20.68	66.38	+	+p	+p	+p	+	+p	+	
7960			+p	+p	+p	+p	+		34.87	65.84	+	+p	+p	+p	+	+p	+	
7961			+p	+p	+p	+p	+		20.71	66.2	+	+p	+p	+p	+	+p	+	
7962			st	st	st	st	-		25.88	65.92	+	+p	+p	+p	+	+p	+	
7963			st	st	st	st	-		22.57	66.25	+	+p	+p	+p	+	+p	+	
7964			+p	+p	+p	+p	+		20.67	66.34	+	+p	+p	+p	+	+p	+	
7965			+p	+p	+p	+p	+		24.94	65.24	+	+p	+p	+p	+	+p	+	
7966			+p	+p	+p	+p	+		21.04	65.78	+	+p	+p	+p	+	+p	+	
7967			+p	+p	+p	+p	+		23.68	66.02	+	+p	+p	+p	+	+p	+	
7968			+p	+p	+p	+p	+		22.44	65.86	+	+p	+p	+p	+	+p	+	
7969			+p	+p	+p	+p	+		24.57	65.97	+	+p	+p	+p	+	+p	+	
7970			+p	+p	+p	+p	+		19.95	66.07	+	+p	+p	+p	+	+p	+	
7971			+p	+p	+p	+p	+		22.67	66.11	+	+p	+p	+p	+	+p	+	
7972			+p	+p	+p	+p	+		20.03	66.23	+	+p	+p	+p	+	+p	+	
7973			st	st	st	st	-		19.99	66.18	+	+p	+p	+p	+	+p	+	
7974			+p	+p	+p	+p	+		20.73	66.17	+	+p	+p	+p	+	+p	+	
7975			+p	+p	+p	+p	+		23.17	65.88	+	+p	+p	+p	+	+p	+	

♦ Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

Pet foods: Pellets for dog / S. Branderup F286 – Specific protocol © 20 h

Matrix : Pellets for dog (375 g test portion) Specific protocol ⑥

Strain : *Salmonella* Branderup F286

Aerobic mesophilic flora : 80 CFU/g

N° sample	Level	Contamination level- (cfu/sample)	Reference method: ISO 6579-1♦					Number positive samples/Total	Alternative method: GENE-UP <i>Salmonella</i> 20h at 37°C (dilution 1/6)										Number positive samples/Total
			RVS broth		MKTTn broth		Final result		PCR			Direct streaking				Subculture	Final result		
			XLD	ASAP	XLD	ASAP			CP	TM	Result	ChromID <i>Salmonella</i>	XLD	ASAP	Result				
7379	0	/	-	-	-	-	-	0/5	0	0	-	-	-	-	-	-	0/5		
7380			-	-	-	-	-		0	0	-	-	-	-	-	-			
7381			-	-	-	-	-		0	0	-	-	-	-	-	-			
7382			-	-	-	-	-		0	0	-	-	-	-	-	-			
7383			-	-	-	-	-		0	0	-	-	-	-	-	-			
9042	Low	0.7	st	st	-	st	-	8/20	0	0	-	-	-	-	-	-	3/20		
9043			+M	+M	+M	+M	+		0	0	-	-	-	-	-	-			
9044			st	-	-	-	-		0	0	-	-	-	-	-	-			
9045			+M	+M	+M	+M	+		0	0	-	-	-	-	-	-			
9046			st	st	-	-	-		0	0	-	-	-	-	-	-			
9047			-	-	-	-	-		26.89	66.06	+	+M	+M	+M	+	/			
9048			+M	+M	+M	+M	+		0	0	-	-	-	-	-	-			
9049			-	-	-	-	-		0	0	-	-	-	-	-	-			
9050			-	-	-	-	-		0	0	-	-	-	-	-	-			
9051			-	-	-	-	-		0	0	-	-	-	-	-	-			
9052			+M	+M	+M	+M	+		25.01	65.69	+	+M	+M	+M	+	/			
9053			st	st	st	st	-		0	0	-	-	-	-	-	-			
9054			+M	+M	+p	+M	+		0	0	-	-	-	-	-	-			
9055			+M	+M	+p	+p	+		0	0	-	-	-	-	-	-			
9056			st	st	-	-	-		0	0	-	-	-	-	-	-			
9057			st	st	-	-	-		0	0	-	-	-	-	-	-			
9058			st	st	st	st	-		26.66	66.04	+	+1/2	+M	+1/2	+	/			
9059			+M	+M	+M	+M	+		0	0	-	-	-	-	-	-			
9060			-	-	-	-	-		0	0	-	-	-	-	-	-			
9061			+p	+p	+p	+M	+		0	0	-	-	-	-	-	-			
7986	High	3.2	+M	+M	+M	+M	+	16/20			+	+m/+	+m/+	+m/+	+	+	+	15/20	
7987			+M	+M	+M	+M	+				+	+m	+m	+m/+	+	/	+		
7988			-	-	-	-	-				-	-	-	-	-	-	-		
7989			+m	+m	+M	+M	+				+	-	-	-	-	+	+		
7990			+M	+M	+M	+M	+				+	+m	+m	+m	+	/	+		
7991			-	-	-	-	-				+	+m	+m	+m	+	/	+		
7992			+M	+M	+M	+M	+				+	+m	+m	+m	+	/	+		
7993			-	-	-	-	-				+	+m	+m	+m/+	+	/	+		
7994			+M	+M	+M	+M	+				+	-	+m/+	-	+	+	+		
7995			+M	+M	+M	+M	+				+	+m	+m	+m	+	/	+		
7996			+M	+M	+M	+M	+				+	-	-	-	-	+	+		
7997			+M	+M	+M	+M	+				-	-	-	-	-	+	-		
7998			+M	+M	+M	+M	+				-	-	-	-	-	-	-		
7999			+M	+M	+M	+M	+				+	+m/+	+m/+	+m/+	+	+	+		
8000			+M	+M	+M	+M	+				-	-	-	-	-	-	-		
8001			+M	+M	+M	+M	+				+	-	+m/+	-	+	+	+		
8002			-	-	-	-	-				-	-	-	-	-	-	-		
8003			+M	+M	+M	+M	+				+	+1/2	+1/2	+1/2	+	/	+		
8004			+M	+M	+M	+M	+				+	+m	+m	+m	+	/	+		
8005			+M	+M	+m	-	+				+	+m	+1/2	+m	+	/	+		

♦ Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

Pet food: Pellets for dog / S. Branderup F286 – ISO Protocol 20 h

Matrix : Pellets for dog (375 g test portion) ISO protocol
Strain : *Salmonella* Branderup F286

Aerobic mesophilic flora : 80 CFU/g

N° sample	Level	Contamination level- (cfu/sample)	Reference method: ISO 6579-1♦					Number positive samples/Total	Alternative method: GENE-UP <i>Salmonella</i> 20h at 37°C									Number positive samples/Total
			RVS broth		MKTTn broth		Final result		PCR			Direct streaking				Subculture	Final result	
			XLD	ASAP	XLD	ASAP			CP	TM	Result	ChromID <i>Salmonella</i>	XLD	ASAP	Result			
7379	0	/	-	-	-	-	-	0/5	0	0	-	-	-	-	-	-	0/5	
7380			-	-	-	-	-		0	0	-	-	-	-	-	-		
7381			-	-	-	-	-		0	0	-	-	-	-	-	-		
7382			-	-	-	-	-		0	0	-	-	-	-	-	-		
7383			-	-	-	-	-		0	0	-	-	-	-	-	-		
9042	Low	0.7	st	st	-	st	-	8/20	0	0	-	-	-	-	-	-	7/20	
9043			+M	+M	+M	+M	+		0/0/0	0/0/0	-/-/-	-	-	-	-	+		-
9044			st	-	-	-	-		0	0	-	-	-	-	-	-		-
9045			+M	+M	+M	+M	+		24.55	66.06	+	+M	+M	+M	+	+		+
9046			st	st	-	-	-		0	0	-	-	-	-	-	-		-
9047			-	-	-	-	-		0	0	-	-	-	-	-	-		-
9048			+M	+M	+M	+M	+		23.88	65.69	+	+M	+M	+M	+	+		+
9049			-	-	-	-	-		0	0	-	-	-	-	-	-		-
9050			-	-	-	-	-		0	0	-	-	-	-	-	-		-
9051			-	-	-	-	-		0	0	-	-	-	-	-	-		-
9052			+M	+M	+M	+M	+		24.01	66.07	+	+M	+M	+M	+	+		+
9053			st	st	st	st	-		0	0	-	-	-	-	-	-		-
9054			+M	+M	+p	+M	+		24.77	65.9	+	+M	+M	+M	+	+		+
9055			+M	+M	+p	+p	+		24.77	66	+	+M	+M	+M	+	+		+
9056			st	st	-	-	-		0	0	-	-	-	-	-	-		-
9057			st	st	-	-	-		0	0	-	-	-	-	-	-		-
9058			st	st	st	st	-		0	0	-	-	-	-	-	-		-
9059			+M	+M	+M	+M	+		25.14	65.76	+	+M	+M	+M	+	+		+
9060			-	-	-	-	-		0	0	-	-	-	-	-	-		-
9061			+p	+p	+p	+M	+		24.8	66.04	+	+M	+M	+M	+	+		+
7986	High	3.2	+M	+M	+M	+M	+	16/20			+	+m	+m	+m/+	+	+	+	15/20
7987			+M	+M	+M	+M	+				+	+m/+	+m/+	+m/+	+	+	+	
7988			-	-	-	-	-				-	-	-	-	-	-	-	
7989			+m	+m	+M	+M	+				+	+m	+m	+m	+	+	+	
7990			+M	+M	+M	+M	+				+	-	-	-	-	+	+	
7991			-	-	-	-	-				-	-	-	-	-	-	-	
7992			+M	+M	+M	+M	+				+	-	-	-	-	+	+	
7993			-	-	-	-	-				-	-	-	-	-	-	-	
7994			+M	+M	+M	+M	+				+	+M	+M	+M	+	+	+	
7995			+M	+M	+M	+M	+				+	-	+m	+m	+	+	+	
7996			+M	+M	+M	+M	+				+	+1/2	+M	+M	+	+	+	
7997			+M	+M	+M	+M	+				+	+m	+m	+m	+	+	+	
7998			+M	+M	+M	+M	+				+	+m/+	+m/+	+m/+	+	+	+	
7999			+M	+M	+M	+M	+				+	+m	+m/+	+m/+	+	+	+	
8000			+M	+M	+M	+M	+				+	+m	+M	+M	+	+	+	
8001			+M	+M	+M	+M	+				+	+m	+m	+1/2	+	+	+	
8002			-	-	-	-	-				-	-	-	-	-	-	-	
8003			+M	+M	+M	+M	+				+	+m	+m	+m	+	+	+	
8004			+M	+M	+M	+M	+				+	+m	-	+m/+	+	+	+	
8005			+M	+M	+m	-	+		0/0/0	0/0/0	-/-/-	-	-	-	-	+	-	

* Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

Milk powders, infant formula and infant cereals without probiotics including ingredients: Infant cereals without probiotics / S. Panama Ad1733 – Protocol 18 h
Matrix: Infant cereals without probiotics (25g test portion) – Standard protocol
Strain: *Salmonella* Panama Ad1733
Aerobic mesophilic flora : <100 CFU/g

N° sample	Level	Contamination level (CFU/sample)	Reference method: ISO 6579-1*					Number positive samples/Total	Alternative method: GENE-UP <i>Salmonella</i> BPW 18h at 37°C								Number positive samples/Total	
			RVS broth		MKTTn broth		Final result		PCR			Direct streaking				Subculture		Final result
			XLD	ASAP	XLD	ASAP			CP	TM	Result	ChromID Salmonella	XLD	ASAP	Result			
5543	0	/	st	st	st	st	-	0/5	0	0	-	st	st	st	-	-	-	0/5
5544			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
5545			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
5546			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
5547			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
5976	Low	0.5	st	st	st	st	-	8/20	0	0	-	st	st	st	-	-	-	8/20
5977			st	st	st	st	-		0	0	-	-	st	-	-	-	-	
5978			-	-	-	-	-		0	0	-	-	-	-	-	-	-	
5979			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
5980			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
5981			+p	+p	+p	+p	+		26.71	66.1	+	+p	+p	+p	+	+	+	
5982			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
5983			st	st	st	st	-		0	0	-	-	-	-	-	-	-	
5984			+p	+p	+p	+p	+		23.28	66.29	+	+p	+p	+p	+	+	+	
5985			+p	+p	+p	+p	+		23.25	65.96	+	+p	+p	+p	+	+	+	
5986			+p	+p	+p	+p	+		24.65	66.15	+	+p	+p	+p	+	+	+	
5987			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
5988			+p	+p	+p	+p	+		22.5	66.07	+	+p	+p	+p	+	+	+	
5989			+p	+p	+p	+p	+		26.75	66.1	+	+p	+p	+p	+	+	+	
5990			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
5991			+p	+p	+p	+p	+		24.66	66.13	+	+p	+p	+p	+	+	+	
5992			+p	+p	+p	+p	+		25.76	66.18	+	+p	+p	+p	+	+	+	
5993			st	st	st	st	-		0	0	-	-	-	-	-	-	-	
5994			st	st	st	st	-		0	0	-	-	-	-	-	-	-	
5995			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
5996	High	1.5	st	st	st	st	-	3/5	0	0	-	st	st	st	-	-	-	3/5
5997			+p	+p	+p	+p	+		26.71	66.17	+	+p	+p	+p	+	+	+	
5998			+p	+p	+p	+p	+		23.49	66.02	+	+p	+p	+p	+	+	+	
5999			+p	+p	+p	+p	+		23.59	66.26	+	+p	+p	+p	+	+	+	
6000			st	st	st	st	-		0	0	-	st	st	st	-	-	-	

♦ Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

Infant formula and infant cereals with probiotics: Infant formula with probiotics / S. Livingstone Ad2705 – Specific protocol ⑦ 20 h

Matrix : Infant formula with probiotics (25g test portion) - Specific protocol ⑦
Strain : *Salmonella* Livingstone Ad2705
Lactic flora :1.7 x 10⁶ CFU/g

N° sample	Level	Contamination level (CFU/sample)	Reference method: ISO 6579-1♦					Number positive samples/Total	Alternative method: GENE-UP <i>Salmonella</i> BPW + novobiocin 18h at 37°C								Number positive samples/Total	
			RVS broth		MKTTn broth		Final result		PCR			Direct streaking				Subculture SX2		Final result
			XLD	ASAP	XLD	ASAP			CP	TM	Result	ChromID Salmonella	XLD	ASAP	Result			
5600	0	/	st	st	st	st	-	0/5	0	0	-	st	st	st	-	-	-	0/5
5601			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
5602			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
5603			st	st	-	-	-		0	0	-	st	st	st	-	-	-	
5604			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
5605	Low	0.3	st	st	st	st	-	7/20	0	0	-	st	st	st	-	-	-	5/20
5606			+p	+p	+p	+p	+		0	0	-	st	st	st	-	-	-	
5607			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
5608			st	st	st	st	-		19.64	66.08	+	+p	+p	+p	+	+	+	
5609			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
5610			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
5611			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
5612			st	st	st	st	-		20.14	66.02	+	+p	+p	+p	+	+	+	
5613			+p	+p	+p	+p	+		0	0	-	st	st	st	-	-	-	
5614			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
5615			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
5616			+p	+p	+p	+p	+		0	0	-	st	st	st	-	-	-	
5617			+p	+p	+p	+p	+		0	0	-	st	st	st	-	-	-	
5618			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
5619			+p	+p	+p	+p	+		19.85	65.98	+	+p	+p	+p	+	+	+	
5620			+p	+p	+p	+p	+		19.94	65.93	+	+p	+p	+p	+	+	+	
5621			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
5622			+p	+p	+p	+p	+		19.72	65.73	+	+p	+p	+p	+	+	+	
5623			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
5624			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
5625	High	0.7	st	st	st	st	-	4/5	0	0	-	st	st	st	-	-	-	3/5
5626			+p	+p	+p	+p	+		19.95	66.1	+	+p	+p	+p	+	+	+	
5627			+p	+p	+p	+p	+		28.1	65.84	+	+p	+p	+p	+	+	+	
5628			+p	+p	+p	+p	+		20.22	66.1	+	+p	+p	+p	+	+	+	
5629			+p	+p	+p	+p	+		0	0	-	st	st	st	-	-	-	

♦ Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

Milk powders, infant formula and infant cererals with or without probiotics including ingredients: Infant formula with probiotics / S. Mbandaka Ad1810 – Specific protocol ® 20 h

Matrix : Infant formula with probiotics (375g test portion) - Specific protocol ®

Strain : *Salmonella* Mbandaka Ad1810

Lactic flora :1.7 x 10⁶ CFU/g

N° sample	Level	Contamination level (CFU/sample)	Reference method: ISO 6579-1 ♦					Number positive samples/Total	Alternative method: GENE-UP <i>Salmonella</i> BPW + novobiocin 20h at 37°C (dilution 1/6)								Number positive samples/Total	
			RVS broth		MKTTn broth		Final result		PCR			Direct streaking			Subculture	Final result		
			XLD	ASAP	XLD	ASAP			CP	TM	Result	ChromID Salmonella	XLD	ASAP				Result
5589	0	/	st	st	-	-	-	0/5	0	0	-	st	st	st	-	-	-	0/5
5590			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
5591			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
5592			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
5593			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
5813	Low	0.5	st	st	st	st	-	10/20	30.88	66.01	+	+p	+p	+p	+	+	+	17/20
5814			+p	+(1)	+p	+p	+		29.73	65.86	+	+p	+p	+p	+	+	+	
5815			st	st	st	st	-		27.73	66.06	+	+p	+p	+p	+	+	+	
5816			st	st	st	st	-		32.03	65.95	+	+p	+p	+p	+	+	+	
5817			st	st	+p	+p	+		26.77	65.92	+	+p	+p	+p	+	+	+	
5818			st	st	+p	+p	+		26.58	66.04	+	+p	+p	+p	+	+	+	
5819			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
5820			st	st	+p	+p	+		31.74	66.06	+	+p	+p	+p	+	+	+	
5821			st	st	+p	+p	+		26.6	66.15	+	+p	+p	+p	+	+	+	
5822			st	st	+p	+p	+		26.59	65.9	+	+p	+p	+p	+	+	+	
5823			st	st	+p	+p	+		0	0	-	st	st	st	-	-	-	
5824			st	st	st	st	-		30.62	65.87	+	+p	+p	+p	+	+	+	
5825			+p	+p	+p	+p	+		28.43	65.84	+	+p	+p	+p	+	+	+	
5826			+p	+p	+p	+p	+		25.86	65.91	+	+p	+p	+p	+	+	+	
5827			st	st	st	st	-		0	0	-	-	-	-	-	-	-	
5828			st	st	st	st	-		30.45	65.98	+	+p	+p	+p	+	+	+	
5829			st	st	st	st	-		28.42	66.09	+	+p	+p	+p	+	+	+	
5830			st	st	st	st	-		27.78	65.86	+	+p	+p	+p	+	+	+	
5831			st	st	st	st	-		28.89	66.02	+	+p	+p	+p	+	+	+	
5832			st	st	+p	+p	+		31.73	65.85	+	+p	+p	+p	+	+	+	
5833	High	1.0	+p	+p	+p	+p	+	4/5	27.28	65.8	+	+p	+p	+p	+	+	+	5/5
5834			st	st	st	st	-		31.31	65.92	+	+p	+p	+p	+	+	+	
5835			+p	+p	+p	+p	+		24.91	65.58	+	+p	+p	+p	+	+	+	
5836			+p	+p	+p	+p	+		25.83	66.07	+	+p	+p	+p	+	+	+	
5837			+p	+p	+p	+p	+		31.29	65.92	+	+p	+p	+p	+	+	+	

♦ Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

Milk powders, infant formula and infant cererals with or without probiotics including ingredients: Maltodextrin / S. Cerro Ad2152 – Specific protocol ④ 20 h

Matrix : Maltodextrin (375g test portion) – Specific protocol ④

Strain : *Salmonella* Cerro Ad2152

Aerobic mesophilic flora : <200 CFU/g

N° sample	Level	Contamination level (CFU/sample)	Reference method: ISO 6579-1 ♦					Number positive samples/Total	Alternative method: GENE-UP <i>Salmonella</i> 20h at 37°C (dilution 1/10)									Number positive samples/Total
			RVS broth		MKTTn broth		Final result		PCR			Direct streaking				Subculture	Final result	
			XLD	ASAP	XLD	ASAP			CP	TM	Result	ChromID Salmonella	XLD	ASAP	Result			
5634	0	/	st	st	st	st	-	0/5	0	0	-	st	st	st	-	-	-	0/5
5635			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
5636			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
5637			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
5638			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
5639	Low	1.1	st	st	st	st	-	7/20	0	0	-	st	st	st	-	-	-	7/20
5640			+p	+p	+p	+p	+		20.52	66.25	+	+p	+p	+p	+	+	+	
5641			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
5642			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
5643			+p	+p	+p	+p	+		20.48	66.41	+	+p	+p	+p	+	+	+	
5644			+p	+p	+p	+p	+		20.97	66.38	+	+p	+p	+p	+	+	+	
5645			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
5646			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
5647			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
5648			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
5649			+p	+p	+p	+p	+		19.96	66.11	+	+p	+p	+p	+	+	+	
5650			st	st	st	st	-		0	0	-	st	st	st	-	-	-	
5651			st	st	st	st	-		0	0	-	-	st	st	-	-	-	
5652			st	st	st	st	-		0	0	-	-	st	st	-	-	-	
5653			+p	+p	+p	+p	+		20.06	65.97	+	+p	+p	+p	+	+	+	
5654			+p	+p	+p	+p	+		21.57	66.21	+	+p	+p	+p	+	+	+	
5655			+p	+p	+p	+p	+		19.3	66.38	+	+p	+p	+p	+	+	+	
5656			st	st	st	st	-		0	0	-	-	st	st	-	-	-	
5657			st	st	st	st	-		0	0	-	-	st	st	-	-	-	
5658			st	st	st	st	-		0	0	-	-	-	-	-	-	-	
5659	High	2.8	+p	+p	+p	+p	+	5/5	21.3	66.15	+	+p	+p	+p	+	+	+	5/5
5660			+p	+p	+p	+p	+		19.54	66.19	+	+p	+p	+p	+	+	+	
5661			+p	+p	+p	+p	+		19.83	66.1	+	+p	+p	+p	+	+	+	
5662			+p	+p	+p	+p	+		22.57	66.38	+	+p	+p	+p	+	+	+	
5663			+p	+p	+p	+p	+		19.63	66.58	+	+p	+p	+p	+	+	+	

♦ Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

Primary production samples (excluding drinking water): Bootsocks / S. Djugu Ad2969 - Specific protocol 9 20 h

Matrix : Bootsocks - Specific protocol 9
Strain : S. Djugu Ad2969
Aerobic mesophilic flora : 1.5 x 10⁶CFU/g

N° sample	Level	Contamination level- (cfu/sample)	Reference method: ISO 6579-1 ♦						Number positive samples/Total	Alternative method: GENE-UP <i>Salmonella</i> Tetrathionate for 18h at 37°C ± 1°C + Subculture in SX2 (0.1 ml + 10 ml) for 18 h at 41.5°C						Number positive samples/Total
			MSRV			MKTTn broth		Final result		PCR Gene UP			Direct streaking		Final result	
			Reading	XLD	ASAP	XLD	ASAP			CP SLM	TM (°C) SLM	Result	XLD	ASAP		
3952	0	/	-/-			-	+dni/-	-	0/5			-	-	-	-	0/5
3953			-/-			-	+dni/-	-				-	md/-	-	-	
3954			-/-			-	+dni/-	-				-	md/-	md/-	-	
3955			-/-			-	+dni/-	-				-	md/-	-	-	
3956			-/-			-	+dni/-	-				-	md/-	-	-	
4215	Low	0.9	+	+p	+p	-	+m	+	10/20	23.3	65.97	+	-	+m	+	11/20
4216			-/-			-	-	-				-	-	-	-	
4217			-/-			-	-	-				-	-	-	-	
4218			-/+d	+p	+p	-	+m	+				-	-	-	-	
4219			-/-			-	-	-		23.99	65.97	+	-	+m	+	
4220			+	+p	+p	-	+m	+				-	-	-	-	
4221			-/-			-	-	-				-	-	-	-	
4222			-/-			-	-	-		23.23	65.88	+	-	+m	+	
4223			+	+p	+p	-	+M	+		23.84	65.77	+	-	+m	+	
4224			-/-			-	-	-				-	-	-	-	
4225			-/-			-	-	-		24.96	65.61	+	-	+m	+	
4226			+	+p	+p	-	+m	+				-	-	-	-	
4227			+	+p	+p	-	+m	+		24.91	65.55	+	-	+m	+	
4228			+	+p	+p	-	+m	+				-	-	-	-	
4229			-/-			-	-	-		23.19	65.57	+	-	+m	+	
4230			+	+p	+p	-	+m	+		23.41	65.71	+	-	+1/2	+	
4231			+	+p	+p	-	-	+				-	-	-	-	
4232			-/-			-	-	-		22.56	65.58	+	-	+1/2	+	
4233			-/-			-	-	-		23.47	65.86	+	-	+1/2	+	
4234			+	+p	+p	-	+m/+	+		23.22	65.72	+	-	+m	+	
4035	High	1.3	+	+M	+p	md/-	+M	+	5/5	22.63	65.63	+	+m	+M	+	5/5
4036			+	+M	+p	-	+m	+		23.29	65.78	+	md/+	+m	+	
4037			+	+p	+p	+mni/+m	+M	+		26.1	65.68	+	md/+	+m	+	
4038			+d/+d	+M	+p	-	+M	+		22.68	65.84	+	+m/+	+M	+	
4039			+	+p	+p	md/+m	+M	+		22.14	65.84	+	+m/+	+m	+	

♦ Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

Milk powders, infant formula and infant cererals with or without probiotic, ELN: Infant formula with probiotics / S. Livingstone Ad2705 – Specific protocol ⑩ 20 h

Matrix: Infant formula with probiotics – Specific protocol ⑩

Strain : *Salmonella* Livingstone Ad2705

Lactic flora: 6.0.10⁵ CFU/g

N° sample	Level	Contamination level- (cfu/sample)	Reference method: ISO 6579-1 ♦					Number positive samples/Total	Alternative method: GENE-UP <i>Salmonella</i>													Number positive samples/Total	
			RVS		MKTTn		Final result		PCR GENE-UP without BACTVIAB PMAxx			PCR GENE-UP with BACTVIAB PMAxx			Direct streaking				Subculture	Final result	Without BACTVIAB PMAxx	With BACTVIAB PMAxx	
			XLD	ASAP	XLD	ASAP			CP SLM	TM (°C) SLM	Result	CP SLM	TM (°C) SLM	Result	SM2	XLD	ASAP	Salma					
2058	0	/	st	st	st	st	-	0/5	0	0	-	0	0	-	st	st	st	st	st	-	0/5	0/5	
2059			st	st	st	st	-		0	0	-	0	0	-	st	st	st	st	st	-			
2060			st	st	st	st	-		0	0	-	0	0	-	st	st	st	st	st	-			
2061			st	st	st	st	-		0	0	-	0	0	-	st	st	st	st	st	-			
2062			st	st	st	st	-		0	0	-	0	0	-	st	st	st	st	st	-			
2063			Low	0.3	+p	+p	+p		+p	+	15/20	0	0	-	0	0	-	st	st	st			st
2064	st	st			st	st	-	0	0	-		0	0	-	st	st	st	st	st	-			
2065	+p	+p			+p	+p	+	0	0	-		0	0	-	st	st	st	st	st	-			
2066	+p	+p			+p	+p	+	20.11	65.55	+		24.01	66.07	+	+p	+p	+p	+p	+p	+			
2067	+p	+p			+p	+p	+	18.98	64.80	+		23.77	65.58	+	+p	+p	+p	+p	+p	+			
2068	+p	+p			+p	+p	+	0	0	-		0	0	-	st	st	st	st	st	-			
2069	+p	+p			+p	+p	+	0	0	-		0	0	-	st	st	st	st	st	-			
2070	+p	+p			+p	+p	+	19.70	65.42	+		23.85	65.64	+	+p	+p	+p	+p	+p	+			
2071	+p	+p			+p	+p	+	19.73	65.39	+		23.88	65.88	+	+p	+p	+p	+p	+p	+			
2072	st	st			st	st	-	19.60	64.73	+		23.69	65.52	+	+p	+p	+p	+p	+p	+			
2073	-	st			st	st	-	19.94	65.48	+		23.83	66.15	+	+p	+p	+p	+p	+p	+			
2074	+p	+p			+p	+p	+	19.50	64.99	+		23.97	66.19	+	+p	+p	+p	+p	+p	+			
2075	+p	+p			+p	+p	+	22.87	65.04	+		27.03	65.86	+	+p	+p	+p	+p	+p	+			
2076	+p	+p			+p	+p	+	19.52	65.03	+		23.80	66.15	+	+p	+p	+p	+p	+p	+			
2077	+p	+p			+p	+p	+	19.50	65.40	+		23.88	66.09	+	+p	+p	+p	+p	+p	+			
2078	st	st			st	st	-	19.55	64.87	+		24.18	66.06	+	+p	+p	+p	+p	+p	+			
2079	+p	+p			+p	+p	+	0	0	-		0	0	-	st	st	st	st	st	-			
2080	+p	+p			+p	+p	+	19.19	65.10	+		24.44	66.04	+	+p	+p	+p	+p	+p	+			
2081	st	st			st	st	-	18.98	65.07	+		24.24	66.10	+	+p	+p	+p	+p	+p	+			
2082	+p	+p			+p	+p	+	19.78	65.67	+		24.12	66.38	+	+p	+p	+p	+p	+p	+			
2083	High	1.3	+p	+p	+p	+p	+	5/5	19.50	65.35	+	23.93	66.22	+	+p	+p	+p	+p	+p	+	5/5	5/5	
2084			+p	+p	+p	+p	+		19.64	65.45	+	24.06	66.29	+	+p	+p	+p	+p	+p	+			
2085			+p	+p	+p	+p	+		20.54	65.65	+	24.46	66.20	+	+p	+p	+p	+p	+p	+			
2086			+p	+p	+p	+p	+		19.70	65.43	+	29.76	66.13	+	+p	+p	+p	+p	+p	+			
2087			+p	+p	+p	+p	+		19.53	65.61	+	23.88	65.91	+	+p	+p	+p	+p	+p	+			

♦ Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

Ingredients for chocolate industry: Cocoa powder / S. Typhimurium Ad3034– Specific protocol 11 10 h & 22 h

Matrix : Cocoa powder (375 g test portion) – Specific protocol 11
Strain : *Salmonella* Typhimurium Ad3034
Total flora : 100 CFU/g

N° sample	Level	Contamination level (CFU/sample)	Reference method: ISO 6579-1 ♦					Number positives /Total	Alternative method: GENE-UP <i>Salmonella</i> Pre-warmed BPW 1/10 + supplement 10 h 37°C Protocol (11)										Number positives /Total 10 h	Alternative method: GENE-UP <i>Salmonella</i> Pre-warmed BPW 1/10 + supplement 22 h 37°C Protocol (11)										Number positives / Total 22 h
			RVS		MKTTn		Final result		PCR			Confirmation				Final result 10 h	PCR			Confirmation				Final result 22 h						
			XLD	ASAP	XLD	ASAP			CP SLM	TM (°C) SLM	Result	SM2	XLD	ASAP	Salma		SX2 6 h	SX2 24 h		CP SLM	TM (°C) SLM	Result	SM2		XLD	ASAP	Salma	SX2 6 h	SX2 24 h	
3506	0	/	st	st	st	st	-	0/5	0	0	-	st	st	st	st	/	-	-	0/5	0	0	-	st	st	st	st	-	/	-	0/5
3507			st	st	st	st	-		0	0	-	st	st	st	st	/	-	-		0	0	-	st	st	st	st	-	/	-	
3508			st	st	st	st	-		0	0	-	st	st	st	st	/	-	-		0	0	-	-	-	-	-	-	/	-	
3509			st	st	st	st	-		0	0	-	st	st	st	st	/	-	-		0	0	-	st	st	st	st	-	/	-	
3510			st	st	st	st	-		0	0	-	st	st	st	st	/	-	-		0	0	-	st	st	st	st	-	/	-	
3511	Low	0.7	+p	+p	+p	+p	+	15/20	0	0	-	st	st	st	st	-	-	-	10/20	0	0	-	st	st	st	st	/	-	-	11/20
3512			st	st	st	st	-		0	0	-	-	-	-	-	-	-	0		0	-	-	-	-	-	/	-	-		
3513			+M	+p	+M	+p	+		0	0	-	st	st	st	st	/	-	-		0	0	-	st	st	st	st	/	-	-	
3514			+M	+p	+M	+p	+		0	0	-	st	st	st	st	/	-	-		34.64	65.93	+	+p	+M	+p	+p		/	+	
3515			+M	+p	+M	+p	+		0	0	-	st	st	st	st	/	-	-		0	0	-	st	st	st	st	-	-	-	
3516			-	-	-	-	-		35.21	66.16	+	st	+p (1)	st	st	+	/	+		16.56	66.39	+	+m	+M	+M	+M	+	/	+	
3517			+p	+p	+p	+p	+		0	0	-	st	st	st	st	/	-	-		0	0	-	st	st	st	st	-	-	-	
3518			+p	+p	+p	+p	+		35.70	66.11	+	st	st	st	st	+	/	+		20.25	66.31	+	+p	+p	+p	+p	+	/	+	
3519			+M	+p	+M	+p	+		32.72	65.92	+	+p	+p	+p	+p	+	/	+		28.88	66.33	+	+p	+p	+p	+p	+	/	+	
3520			st	st	st	st	-		33.77	65.89	+	+p	+p	+p	+p	+	/	+		16.10	66.00	+	+p	+p	+p	+p	+	/	+	
3521			-	+d/+	+M	+p	+		32.32	66.43	+	+p	+p	+p	+p	+	/	+		29.56	66.58	+	+p	+p	+p	+p	+	/	+	
3522			+M	+M	+M	+p	+		0	0	-	st	st	st	st	/	-	-		0	0	-	st	st	st	st	-	-	-	
3523			-	-	-	-	-		32.99	65.66	+	+p	+p (9)	+p	+p	+	/	+		16.17	66.04	+	+M	+p	+p	+p	+	/	+	
3524			+p	+p	+p	+p	+		0	0	-	st	st	st	st	/	-	-		0	0	-	st	st	st	st	-	-	-	
3525			st	sty	st	st	-		0	0	-	-	st	-	-	/	-	-		0	0	-	-	-	-	-	-	-	-	
3526			+p	+p	+p	+p	+		30.61	66.35	+	st	st	st	st	/	+	+		16.31	66.18	+	+p	+p	+p	+p	+	/	+	
3527			+p	+p	+p	+p	+		0	0	-	st	st	st	st	/	-	-		0	0	-	st	st	st	st	-	-	-	
3528			+p	+p	+p	+p	+		34.48	65.90	+	+p (3)	+M (4)	+p (1)	+p (4)	+	/	+		15.94	66.06	+	+1/2	+M	+M	+M	+	/	+	
3529			+p	+p	+p	+p	+		33.01	66.02	+	+p	+M	+p	+M	+	/	+		16.22	66.14	+	+m	+p	M	+M	+	/	+	
3530			+M	+M	+m	+1/2	+		34.67	66.34	+	st	+p	+p (7)	+p (8)	+	/	+		15.48	66.51	+	+p	+p	+p	+p	+	/	+	
3531	High	3.0	+M	+p	+p	+p	+	5/5	0	0	-	st	st	st	st	/		-	3/5	0	0	-	st	st	st	st	-	-	-	4/5
3532			+M	+M	+p	+p	+		35.57	66.28	+	-	-	-	-	+	/	+		18.17	66.41	+	+m	+1/2	+1/2	M	+	/	+	
3533			+1/2	+p	+M	+p	+		0	0	-	st	st	st	st	/	-	-		16.81	66.44	+	+p	+p	+p	+p	+	/	+	
3534			+M	+M	+M	+M	+		33.78	66.10	+	+p	+p	+p	+p	+	/	+		16.11	66.41	+	+p	+p	+p	+p	+	/	+	
3535			+M	+M	+M	+M	+		33.42	66.10	+	+p	+p	+p	+p	+	/	+		15.99	66.33	+	+p	+p	+p	+p	+	/	+	

♦ Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

Ingredients for chocolate industry: Cocoa powder / S. Typhimurium Ad3034– Specific protocol 12 22 h

Matrix : Cocoa powder (375 g test portion) – Specific protocol 12
Strain : *Salmonella* Typhimurium Ad3034
Total flora : 100 CFU/g

N° sample	Level	Contamination level (CFU/sample)	Reference method: ISO 6579-1 ♦					Number positive /Total	Alternative method: GENE-UP <i>Salmonella</i> Pre-warmed BPW 1/10 + supplement 22 h 37°C Protocol 12										Number positives /Total
			RVS		MKTTn		Final result		PCR 22 h (GU lysis kit)			Direct streaking				Subculture 6 h	Subculture 24 h	Final result Lysis kit 22 h	
			XLD	ASAP	XLD	ASAP			CP SLM	TM (°C) SLM	Result	SM2	XLD	ASAP	Salma				
3506	0	/	st	st	st	st	-	0/5	0	0	-	st	st	st	st	-	/	-	0/5
3507			st	st	st	st	-		0	0	-	st	st	st	st	-	/	-	
3508			st	st	st	st	-		0	0	-	-	-	-	-	-	/	-	
3509			st	st	st	st	-		0	0	-	st	st	st	st	-	/	-	
3510			st	st	st	st	-		0	0	-	st	st	st	st	-	/	-	
3511	Low	0.7	+p	+p	+p	+p	+	15/20	0	0	-	st	st	st	st	/	-	-	11/20
3512			st	st	st	st	-		0	0	-	-	-	-	-	/	-	-	
3513			+M	+p	+M	+p	+		0	0	-	st	st	st	st	/	-	-	
3514			+M	+p	+M	+p	+		23.61	66.07	+	+p	+M	+p	+p	+	/	+	
3515			+M	+p	+M	+p	+		0	0	-	st	st	st	st	-	-	-	
3516			-	-	-	-	-		24.21	66.02	+	+m	+M	+M	+M	+	/	+	
3517			+p	+p	+p	+p	+		0	0	-	st	st	st	st	-	-	-	
3518			+p	+p	+p	+p	+		28.00	65.83	+	+p	+p	+p	+p	+	/	+	
3519			+M	+p	+M	+p	+		23.76	65.97	+	+p	+p	+p	+p	+	/	+	
3520			st	st	st	st	-		23.48	65.91	+	+p	+p	+p	+p	+	/	+	
3521			-	+d/+	+M	+p	+		23.29	66.10	+	+p	+p	+p	+p	+	/	+	
3522			+M	+M	+M	+p	+		0	0	-	st	st	st	st	-	-	-	
3523			-	-	-	-	-		23.70	65.62	+	+M	+p	+p	+p	+	/	+	
3524			+p	+p	+p	+p	+		0	0	-	st	st	st	st	-	-	-	
3525			st	sty	st	st	-		0	0	-	-	-	-	-	-	-	-	
3526			+p	+p	+p	+p	+		23.43	65.67	+	+p	+p	+p	+p	+	/	+	
3527			+p	+p	+p	+p	+		0	0	-	st	st	st	st	-	-	-	
3528			+p	+p	+p	+p	+		23.70	65.11	+	+1/2	+M	+M	+M	+	/	+	
3529			+p	+p	+p	+p	+		23.69	65.95	+	+m	+p	M	+M	+	/	+	
3530			+M	+M	+m	+1/2	+		24.28	66.10	+	+p	+p	+p	+p	+	/	+	
3531	High	3.0	+M	+p	+p	+p	+	5/5	0	0	-	st	st	st	st	-	-	-	4/5
3532			+M	+M	+p	+p	+		25.73	66.06	+	+m	+1/2	+1/2	M	+	/	+	
3533			+1/2	+p	+M	+p	+		25.21	65.84	+	+p	+p	+p	+p	+	/	+	
3534			+M	+M	+M	+M	+		23.97	65.29	+	+p	+p	+p	+p	+	/	+	
3535			+M	+M	+M	+M	+		23.74	65.91	+	+p	+p	+p	+p	+	/	+	

♦ Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

Raw materials and finished products from the chocolate industry: Milk chocolate bar with a smooth hazelnut filling and a crispy wafer / S. Braenderup Ad1661– Specific protocol 11 10 h

Matrix : Milk chocolate bar with a smooth hazelnut filling and a crispy wafer
Strain: S. Braenderup Ad1661
Total flora : 2.4 x 10² CFU/g

N° sample	Level	Contamination level (CFU/sample)	Reference method: ISO 6579-1*					Number positives /Total	Alternative method: GENE-UP <i>Salmonella</i> Pre-warmed BPW 1/10 + BACTBOOST™ supplement 10 h 37°C EGENE-UP EASYPREP - Protocol ⑪											Number positives /Total 10 h
			RVS		MKTTn		Final result		PCR			Confirmation							Final result 10 h	
			XLD	ASAP	XLD	ASAP						Direct streaking				SX2 6 h	SX2 24 h	Confirmation result 10 h		
									CP SLM	TM (°C) SLM	Result	SM2	XLD	ASAP	Salma					
118796	0	/	-	-	-	-	-	0/5	0	0	-	-B	-B	-B	-B	/	-	-	-	0/5
118797			-	-	st	-	-		0	0	-	-C	-C	-C	-C	/	-	-	-	
118798			st	st	st	st	-		0	0	-	-A	-A	-A	-A	/	-	-	-	
118799			-	-	-	-	-		0	0	-	-B	-B	-A	-B	/	-	-	-	
118800			-	-	-	-	-		0	0	-	-B	-B	-B	-B	/	-	-	-	
118801	Low	0.4	+M	+M	+m	+1/2	+	15/20	31.74	65.98	+	+m	+1/2	+1/2	+M	+	/	+	+	12/20
118802			+1/2	+M	+m	+1/2	+		32.52	65.76	+	+M	+M	+M	+M	+	/	+	+	
118803			+m	+m	+m	+m	+		31.18	66.02	+	+M	+M	+M	+M	+	/	+	+	
118804			+m	+M	+m	+m	+		31.68	65.74	+	-A	+m	+m	+m	+	/	+	+	
118805			+M	+p	+p	+M	+		0	0	-	-B	-B	-B	-B	/	-	-	-	
118806			-	-	-	-	-		0	0	-	-C	-B	-B	-C	/	-	-	-	
118807			+p	+p	+m	+1/2	+		32.60	65.59	+	+1/2	+1/2	+M	+1/2	+	/	+	+	
118808			+M	+M	+m	+1/2	+		0	0	-	-B	-B	-B	-B	/	-	-	-	
118809			+p	+p	+1/2	+1/2	+		32.93	65.61	+	+m	+m	+m	+m	+	/	+	+	
118810			-	-	-	-	-		32.92	65.49	+	+m	+m	+m	+m	+	/	+	+	
118811			+M	+M	+m	+M	+		32.65	65.77	+	+m	+m	+m	+m	+	/	+	+	
118812			+M	+M	+M	+p	+		33.01	65.72	+	-A	-A	-A	+m	+	/	+	+	
118813			+M	+M	+M	+p	+		0	0	-	-B	-B	-B	-B	/	-	-	-	
118814			+p	+p	+p	+p	+		0	0	-	-C	-C	-C	-C	/	-	-	-	
118815			+M	+M	+m	+1/2	+		0	0	-	-B	-B	-B	-B	/	-	-	-	
118816			-	-	-	-	-		32.59	65.91	+	+M	+M	+M	+M	+	+	+	+	
118817			-	-	-	-	-		34.80	66.03	+	+m	+m	+m	+m	+	+	+	+	
118818			+p	+p	+M	+M	+		0	0	-	st	st	st	st	/	-	-	-	
118819			-	-	-	-	-		34.01	65.95	+	-A	-A	-A	+m	+	/	+	+	
118820			+M	+M	+M	+p	+		0	0	-	-B	-B	-B	-B	/	-	-	-	
118821	High	1.5	+p	+p	+p	+p	+	4/5	31.10	65.62	+	+1/2	+M	+M	+1/2	+	/	+	+	5/5
118822			+M	+p	+M	+p	+		30.52	65.70	+	+m	+m	+m	+m	+	/	+	+	
118823			+m	+M	+1/2	+M	+		30.25	65.73	+	+M	+M	+M	+M	+	/	+	+	
118824			st	st	-	-	-		30.95	65.78	+	+M	+M	+M	+M	+	/	+	+	
118825			+M	+M	+p	+p	+		31.24	65.72	+	+m	+m	+m	+m	+	/	+	+	

♦ Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

Raw materials and finished products from the chocolate industry: Milk chocolate bar with a smooth hazelnut filling and a crispy wafer / S. Braenderup Ad1661– Specific protocol ⑪ 22 h

Matrix : Milk chocolate bar with a smooth hazelnut filling and a crispy wafer
Strain: S. Braenderup Ad1661
Total flora : 2.4 x 10² CFU/g

N° sample	Level	Contamination level (CFU/sample)	Alternative method: ISO 6579-1♦					Number positives /Total	GENE-UP <i>Salmonella</i> Pre-warmed BPW 1/10 + BACTBOOST™ supplement 22 h 37°C – EGENE-UP EASYPREP - Protocol (11)											Number positives /Total 22 h
			RVS		MKTTn		Final result		PCR			Confirmation							Final result 22 h	
			XLD	ASAP	XLD	ASAP			CP SLM	TM (°C) SLM	Result	SM2	XLD	ASAP	Salma	SX2 6 h	SX2 24 h	Confirmation result 10 h		
118796	0	/	-	-	-	-	-	0/5	0	0	-	-A	-C	-B	-C	/	-	-	-	0/5
118797			-	-	st	-	-		0	0	-	-B	-C	-B	st	/	-	-	-	
118798			st	st	st	st	-		0	0	-	-B	-B	-B	-B	/	-	-	-	
118799			-	-	-	-	-		0	0	-	-B	-B	-B	-B	/	-	-	-	
118800			-	-	-	-	-		0	0	-	-B	-B	-B	-C	/	-	-	-	
118801	Low	0.4	+M	+M	+m	+1/2	+	15/20	27.87	66.20	+	+M	+p	+M	+p	+	/	+	+	12/20
118802			+1/2	+M	+m	+1/2	+		29.62	66.06	+	+M	+p	+p	+p	+	/	+	+	
118803			+m	+m	+m	+m	+		27.17	66.14	+	+M	+p	+M	+p	+	/	+	+	
118804			+m	+M	+m	+m	+		31.07	66.00	+	+m	+m	+m	+m	+	/	+	+	
118805			+M	+p	+p	+M	+		0	0	-	-B	-B	-B	-C	/	-	-	-	
118806			-	-	-	-	-		0	0	-	-C	-C	-C	-C	/	-	-	-	
118807			+p	+p	+m	+1/2	+		29.20	65.84	+	+M	+M	+M	+M	+	/	+	+	
118808			+M	+M	+m	+1/2	+		0	0	-	-B	-B	-B	-B	/	-	-	-	
118809			+p	+p	+1/2	+1/2	+		29.86	65.98	+	+1/2	+m	+1/2	+M	+	/	+	+	
118810			-	-	-	-	-		28.94	65.81	+	+1/2	+1/2	+M	+M	+	/	+	+	
118811			+M	+M	+m	+M	+		29.71	66.02	+	+m	-B	+m	+M	+	/	+	+	
118812			+M	+M	+M	+p	+		29.20	66.22	+	-A	-B	-A	+m	+	/	+	+	
118813			+M	+M	+M	+p	+		0	0	-	-B	-C	-B	st	/	-	-	-	
118814			+p	+p	+p	+p	+		0	0	-	-B	-C	-C	-C	/	-	-	-	
118815			+M	+M	+m	+1/2	+		0	0	-	-A	-A	-A	-B	/	-	-	-	
118816			-	-	-	-	-		28.46	66.00	+	+M	+M	+M	+p	+	/	+	+	
118817			-	-	-	-	-		31.20	66.09	+	+m	+m	+m	+m	+	/	+	+	
118818			+p	+p	+M	+M	+		0	0	-	st	st	st	-C	/	-	-	-	
118819			-	-	-	-	-		32.44	66.12	+	+m	-B	-A	+m	+	/	+	+	
118820			+M	+M	+M	+p	+		0	0	-	-B	-B	-B	-B	/	-	-	-	
118821	High	1.5	+p	+p	+p	+p	+	4/5	27.75	66.03	+	+1/2	+m	+1/2	+p	+	/	+	+	5/5
118822			+M	+p	+M	+p	+		26.32	66.11	+	+1/2	+1/2	+1/2	+M	+	/	+	+	
118823			+m	+M	+1/2	+M	+		27.56	66.21	+	+1/2	+p	+M	+p	+	/	+	+	
118824			st	st	-	-	-		27.85	66.28	+	+M	+p	+p	+p	+	/	+	+	
118825			+M	+M	+p	+p	+		29.99	66.34	+	-B	-C	-C	-C	+	/	+	+	

♦ Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

Raw materials and finished products from the chocolate industry: Milk chocolate bar with a smooth hazelnut filling and a crispy wafer / S. Braenderup Ad1661– Specific protocol ⑫ 22 h

Matrix : Milk chocolate bar with a smooth hazelnut filling and a crispy wafer
Strain: S. Braenderup Ad1661
Total flora : 2.4 x 10² UFC/g

N° sample	Level	Contamination level (CFU/sample)	Reference method: ISO 6579-1*					Number positives /Total	Alternative method: GENE-UP <i>Salmonella</i> Pre-warmed BPW 1/10 + BACTBOOST™ supplement 22 h 37°C – GENE-UP Lysis kit - Protocol ⑫											Number positives /Total
			RVS		MKTTn		Final result		PCR 22 h (GU lysis kit)			Direct streaking				Subculture 6 h	Subculture 24 h	Confirmation result Lysis kit 22 h	Final result Lysis kit 22 h	
			XLD	ASAP	XLD	ASAP			CP SLM	TM (°C) SLM	Result	SM2	XLD	ASAP	Salma					
118796	0	/	-	-	-	-	-	0/5	0	0	-	-A	-C	-B	-C	/	-	-	-	-
118797			-	-	st	-	-		0	0	-	-B	-C	-B	st	/	-	-	-	
118798			st	st	st	st	-		0	0	-	-B	-B	-B	-B	/	-	-	-	
118799			-	-	-	-	-		0	0	-	-B	-B	-B	-B	/	-	-	-	
118800			-	-	-	-	-		0	0	-	-B	-B	-B	-C	/	-	-	-	
118801	Low	0.4	+M	+M	+m	+1/2	+	15/20	31.21	65.64	+	+M	+p	+M	+p	+	/	+	+	12/20
118802			+1/2	+M	+m	+1/2	+		31.93	65.58	+	+M	+p	+p	+p	+	/	+	+	
118803			+m	+m	+m	+m	+		31.69	65.85	+	+M	+p	+M	+p	+	/	+	+	
118804			+m	+M	+m	+m	+		33.58	65.87	+	+m	+m	+m	+m	+	/	+	+	
118805			+M	+p	+p	+M	+		0	0	-	-B	-B	-B	-C	/	-	-	-	
118806			-	-	-	-	-		0	0	-	-C	-C	-C	-C	/	-	-	-	
118807			+p	+p	+m	+1/2	+		32.14	65.70	+	+M	+M	+M	+M	+	/	+	+	
118808			+M	+M	+m	+1/2	+		0	0	-	-B	-B	-B	-B	/	-	-	-	
118809			+p	+p	+1/2	+1/2	+		32.91	65.70	+	+1/2	+m	+1/2	+M	+	/	+	+	
118810			-	-	-	-	-		32.62	65.54	+	+1/2	+1/2	+M	+M	+	/	+	+	
118811			+M	+M	+m	+M	+		32.72	65.76	+	+m	-B	+m	+M	+	/	+	+	
118812			+M	+M	+M	+p	+		33.59	65.77	+	-A	-B	-A	+m	+	/	+	+	
118813			+M	+M	+M	+p	+		0	0	-	-B	-C	-B	st	/	-	-	-	
118814			+p	+p	+p	+p	+		0	0	-	-B	-C	-C	-C	/	-	-	-	
118815			+M	+M	+m	+1/2	+		0	0	-	-A	-A	-A	-B	/	-	-	-	
118816			-	-	-	-	-		32.00	65.63	+	+M	+M	+M	+p	+	/	+	+	
118817			-	-	-	-	-		33.62	65.75	+	+m	+m	+m	+m	+	/	+	+	
118818			+p	+p	+M	+M	+		0	0	-	st	st	st	-C	/	-	-	-	
118819			-	-	-	-	-		34.59	65.72	+	+m	-B	-A	+m	+	/	+	+	
118820			+M	+M	+M	+p	+		0	0	-	-B	-B	-B	-B	/	-	-	-	
118821	High	1.5	+p	+p	+p	+p	+	4/5	29.94	65.67	+	+1/2	+m	+1/2	+p	+	/	+	+	5/5
118822			+M	+p	+M	+p	+		30.65	65.31	+	+1/2	+1/2	+1/2	+M	+	/	+	+	
118823			+m	+M	+1/2	+M	+		31.83	65.71	+	+1/2	+p	+M	+p	+	/	+	+	
118824			st	st	-	-	-		31.94	65.73	+	+M	+p	+p	+p	+	/	+	+	
118825			+M	+M	+p	+p	+		32.67	65.76	+	-B	-C	-C	-C	+	/	+	+	

* Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

Chocolate and confectionaries: Cocoa powder / S. Typhimurium Ad3034 – ISO protocol

Matrix : Cocoa powder
Strain : S. Typhimurium Ad2034
Aerobic mesophilic flora : 500 CFU/g
ISO enrichment protocol

N° sample	Level	Contamination level (CFU/test portion)	Reference method: ISO 6579-1♦					Number positive samples/Total	Alternative method: GENE-UP <i>Salmonella</i>											Number positive samples/Total		
			RVS		MKTTn		Final result		PCR without BACTVIAB PMAxx			PCR with BACTVIAB PMAxx			Direct streaking				Subculture	Final result	Without BACTVIAB PMAxx	With BACTVIAB PMAxx
			XLD	ASAP	XLD	ASAP			CP SLM	TM (°C) SLM	Result	CP SLM	TM (°C) SLM	Result	SM2	XLD	ASAP	Salma				
4644	0	/	st	st	st	st	-	0/5	0	0	-	0	0	-	st	st	st	st	st	-	0/5	0/5
4645			st	st	st	st	-		0	0	-	0	0	-	st	st	st	st	st	-		
4646			st	st	st	st	-		0	0	-	0	0	-	st	st	st	st	st	-		
4647			st	st	st	st	-		0	0	-	0	0	-	st	st	st	st	st	-		
4648			st	st	st	st	-		0	0	-	0	0	-	st	st	st	st	st	-		
5307	Low	1.2	st	st	st	st	-	13/20	0	0	-	0	0	-	st	st	st	st	st	-	13/20	13/20
5308			+p	+p	+p	+p	+		24.44	65.67	+	22.58	65.45	+	+p	+p	+p	+p	+p	+		
5309			+p	+p	+p	+p	+		25.91	65.33	+	23.56	64.96	+	+p	+p	+p	+p	+p	+		
5310			st	st	st	st	-		0	0	-	0	0	-	-C	-C	-C	-C	st	-		
5311			+p	+p	+p	+p	+		25.04	65.91	+	25.14	65.71	+	+p	+p	+p	+p	+p	+		
5312			+p	+p	+p	+p	+		25.45	65.90	+	25.62	65.40	+	+p	+p	+p	+p	+p	+		
5313			+p	+p	+p	+p	+		23.91	65.08	+	23.42	65.48	+	+p	+p	+p	+p	+p	+		
5314			+p	+p	+p	+p	+		23.89	65.94	+	23.57	65.79	+	+p	+p	+p	+p	+p	+		
5315			-C	-C	st	st	-		0	0	-	0	0	-	-C	-C	-C	-C	st	-		
5316			+p	+p	+p	+p	+		33.02	65.29	+	33.02	65.07	+	+p	+p	+p	+p	+p	+		
5317			+p	+p	+p	+p	+		23.43	65.58	+	24.56	65.61	+	+p	+p	+p	+p	+p	+		
5318			+p	+p	+p	+p	+		24.06	65.54	+	25.07	65.43	+	+p	+p	+p	+p	+p	+		
5319			st	st	st	st	-		0	0	-	0	0	-	st	st	st	st	st	-		
5320			+p	+p	+p	+p	+		24.00	65.54	+	25.05	64.61	+	+p	+p	+p	+p	+p	+		
5321			+p	+p	+p	+p	+		28.15	65.20	+	29.94	64.77	+	+p	+p	+p	+p	+p	+		
5322			st	st	st	st	-		0	0	-	0	0	-	st	st	st	st	st	-		
5323			st	st	st	st	-		0	0	-	0	0	-	-C	-C	-C	-C	st	-		
5324			st	st	st	st	-		0	0	-	0	0	-	st	st	st	st	st	-		
5325			+p	+p	+p	+p	+		28.46	65.63	+	24.14	65.19	+	+p	+p	+p	+p	+p	+		
5326			+p	+p	+p	+p	+		34.00	65.32	+	33.64	65.15	+	+p	+p	+p	+p	+p	+		
4669	High	2.8	+p	+p	+p	+p	+	3/5	34.58	65.52	+	35.49	65.80	+	+p	+p	+p	+p	+p	+	3/5	3/5
4670			st	st	st	st	-		0	0	-	0	0	-	st	st	st	st	st	-		
4671			+p	+p	+p	+p	+		31.50	65.73	+	32.03	65.32	+	+p	+p	+p	+p	+p	+		
4672			st	st	st	st	-		0	0	-	0	0	-	st	st	st	st	st	-		
4673			+p	+p	+p	+p	+		33.64	65.43	+	32.07	65.37	+	+p	+p	+p	+p	+p	+		

* Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

Ingredients: Maltodextrin / S. Cerro Ad2152 – ISO protocol

Matrix : Maltodextrin
Strain : S. Cerro Ad2152
Aerobic mesophilic flora : < 10 CFU/g

ISO enrichment protocol

N° sample	Level	Contamination level (CFU/test portion)	Reference method: ISO 6579-1♦					Number positive samples/Total	Alternative method: GENE-UP <i>Salmonella</i>												Number positive samples/Total	
			RVS		MKTTn		Final result		PCR without BACTVIAB PMAxx			PCR with BACTVIAB PMAxx			Direct streaking				Subculture	Final result	Without BACTVIAB PMAxx	With BACTVIAB PMAxx
			XLD	ASAP	XLD	ASAP			CP SLM	TM (°C) SLM	Result	CP SLM	TM (°C) SLM	Result	SM2	XLD	ASAP	Salma				
4425	0	/	st	st	st	st	-	0/5	0	0	-	0	0	-	st	st	st	st	st	-	0/5	0/5
4426			st	st	st	st	-		0	0	-	0	0	-	st	st	st	st	st	-		
4427			st	st	st	st	-		0	0	-	0	0	-	st	st	st	st	st	-		
4428			st	st	st	st	-		0	0	-	0	0	-	st	st	st	st	st	-		
4429			st	st	st	st	-		0	0	-	0	0	-	st	st	st	st	st	-		
4430	Low	0.6	st	st	st	st	-	12/20	0	0	-	0	0	-	st	st	st	st	st	-	12/20	12/20
4431			+p	+p	+p	+p	+		20.92	66.14	+	25.82	66.17	+	+p	+p	+p	+p	+p	+		
4432			+p	+p	+p	+p	+		19.78	66.41	+	27.85	66.44	+	+p	+p	+p	+p	+p	+		
4433			+p	+p	+p	+p	+		19.01	65.70	+	28.28	66.41	+	+p	+p	+p	+p	+p	+		
4434			st	st	st	st	-		0	0	-	0	0	-	st	st	st	st	st	-		
4435			st	st	st	st	-		0	0	-	0	0	-	st	st	st	st	st	-		
4436			+p	+p	+p	+p	+		20.74	65.85	+	26.88	66.23	+	+p	+p	+p	+p	+p	+		
4437			+p	+p	+p	+p	+		20.72	65.99	+	26.10	66.37	+	+p	+p	+p	+p	+p	+		
4438			+p	+p	+p	+p	+		22.08	65.85	+	28.64	66.54	+	+p	+p	+p	+p	+p	+		
4439			st	st	st	st	-		0	0	-	0	0	-	st	st	st	st	st	-		
4440			+p	+p	+p	+p	+		26.45	65.97	+	32.89	66.48	+	+p	+p	+p	+p	+p	+		
4441			+p	+p	+p	+p	+		19.32	66.23	+	27.40	66.38	+	+p	+p	+p	+p	+p	+		
4442			st	st	st	st	-		0	0	-	0	0	-	st	st	st	st	st	-		
4443			st	st	st	st	-		0	0	-	0	0	-	st	st	st	st	st	-		
4444			st	st	st	st	-		0	0	-	0	0	-	st	st	st	st	st	-		
4445			+p	+p	+p	+p	+		19.50	66.07	+	26.19	66.37	+	+p	+p	+p	+p	+p	+		
4446			+p	+p	+p	+p	+		19.73	66.05	+	26.45	66.37	+	+p	+p	+p	+p	+p	+		
4447			+p	+p	+p	+p	+		19.32	65.90	+	26.63	66.11	+	+p	+p	+p	+p	+p	+		
4448			st	st	st	st	-		0	0	-	0	0	-	st	st	st	st	st	-		
4449			+p	+p	+p	+p	+		20.01	65.64	+	28.31	66.58	+	+p	+p	+p	+p	+p	+		
4450	High	2.7	+p	+p	+p	+p	+	3/5	21.17	65.46	+	28.46	66.54	+	+p	+p	+p	+p	+p	+	3/5	3/5
4451			+p	+p	+p	+p	+		20.64	66.00	+	27.80	66.48	+	+p	+p	+p	+p	+p	+		
4452			st	st	st	st	-		0	0	-	0	0	-	st	st	st	st	st	-		
4453			st	st	st	st	-		0	0	-	0	0	-	st	st	st	st	st	-		
4454			+p	+p	+p	+p	+		19.19	66.11	+	28.56	66.57	+	+p	+p	+p	+p	+p	+		

♦ Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

Pet food for cat and dog: Dry kibbles for dog / S. Derby Ad1878 – ISO protocol 20 h

Matrix : Dry kibbles for dog
 Strain : *Salmonella* Derby Ad1878
 Aerobic mesophilic flora : < 10 CFU/g

N° sample	Level	Contamination level (CFU/test portion)	Reference method: ISO 6579-1*					Number positive samples/Total	Alternative method GENE-UP <i>Salmonella</i> PW BPW 20 h at 37°C										Number positive samples/Total With BACTVIAB PMAxx
			RVS		MKTTn		Final result		PCR with BACTVIAB PMAxx			Direct streaking				Subculture	Final result		
			XLD	ASAP	XLD	ASAP			CP SLM	TM (°C) SLM	Result	SM2	XLD	ASAP	Salma				
5849	/	0	st	st	st	st	-	0/5	0	0	-	st	st	st	st	-	-	0/5	
5850			st	st	st	st	-		0	0	-	-C	st	st	st	-	-		
5851			st	st	st	st	-		0	0	-	st	-C	st	st	-	-		
5852			st	st	st	st	-		0	0	-	-C	st	st	st	-	-		
5853			st	st	st	st	-		0	0	-	-C	st	st	st	-	-		
5854	Low	1.2	+p	+p	+p	+p	+	13/20	30.26	66.22	+	+p	+p	+p	+p	+	+	13/20	
5855			+p	+p	+p	+p	+		28.04	65.39	+	+p	+p	+p	+p	+	+		
5856			st	st	st	st	-		0	0	-	st	st	st	st	-	-		
5857			+p	+p	+p	+p	+		35.32	65.91	+	+p	+p	+p	+p	+	+		
5858			+p	+p	+p	+p	+		28.56	65.79	+	+p	+p	+p	+p	+	+		
5859			+p	+p	+p	+p	+		27.42	65.27	+	+p	+p	+p	+p	+	+		
5860			+p	+p	+p	+p	+		27.56	65.90	+	+p	+p	+p	+p	+	+		
5861			+p	+p	+p	+p	+		28.78	65.91	+	+p	+p	+p	+p	+	+		
5862			st	st	st	st	-		0	0	-	st	st	st	st	-	-		
5863			st	st	st	st	-		0	0	-	st	st	st	st	-	-		
5864			+p	+p	+p	+p	+		28.53	66.14	+	+p	+p	+p	+p	+	+		
5865			+p	+p	+p	+p	+		32.98	66.13	+	+p	+p	+p	+p	+	+		
5866			+p	+p	+p	+p	+		31.27	65.85	+	+p	+p	+p	+p	+	+		
5867			st	st	st	st	-		0	0	-	st	st	st	st	-	-		
5868			st	st	st	st	-		0	0	-	st	st	st	st	-	-		
5869			+p	+p	+p	+p	+		27.99	65.36	+	+p	+p	+p	+p	+	+		
5870			+p	+p	+p	+p	+		27.70	66.08	+	+p	+p	+p	+p	+	+		
5871			st	st	st	st	-		0	0	-	st	st	st	st	-	-		
5872			st	st	st	st	-		0	0	-	-C	-C	-C	st	-	-		
5873			+p	+p	+p	+p	+		28.26	65.57	+	+p	+p	+p	+p	+	+		
5874	High	5.3	+p	+p	+p	+p	+	5/5	27.57	65.99	+	+p	+p	+p	+p	+	+	5/5	
5875			+p	+p	+p	+p	+		27.68	65.32	+	+p	+p	+p	+p	+	+		
5876			+p	+p	+p	+p	+		28.60	66.04	+	+p	+p	+p	+p	+	+		
5877			+p	+p	+p	+p	+		28.04	65.37	+	+p	+p	+p	+p	+	+		
5878			+p	+p	+p	+p	+		28.31	66.16	+	+p	+p	+p	+p	+	+		

♦ Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

Appendix 6 – Inclusivity / Exclusivity: raw data (initial validation study)

INCLUSIVITY (BPW for 8 h at 41.5°C) (Initial validation study)														
N°	Strain		Reference	Origin	Inoculation Level CFU/225ml	PCR Result			Confirmations					
									ChromID Salmonella		XLD		ASAP	
						CP	Tm	Result	Result	Latex	Result	Latex	Result	Latex
1	<i>Salmonella</i>	Abaetetuba	Ad2318		31	31.28	67.87	+	+	+	+	+	+	+
2	<i>Salmonella</i>	Aberdeen	CIP 105618	/	22	30.73	67.53	+	+	+	+	+	+	+
3	<i>Salmonella</i>	Abortusequi	Ad2321		4	0	0	-	4+ (pale colonies)	+	4+ (H2S-)	+	st	
						22.79	67.95	+	+	+	+	+	+	+
4	<i>Salmonella</i>	Abortusovis	Ad2320	Ovine foetus	23	0	0	-	st	/	st	/	st	/
						22.15	67.26	+	- (white colonies)	+	micro colonies H2S-	-	st	
5	<i>Salmonella</i>	Adelaïde	Ad2319	Turkey breeding environment	31	0	0	-	st	/	3+	-	1+ (pale colony)	+ weak
						20.66	67.76	+	- (blue colonies)	+ weak	+	+	+	-
6	<i>Salmonella</i>	Agona	A00V038	Feed for pork	24	30.08	67.67	+	+	+	+	+	+	+
7	<i>Salmonella</i>	Anatum	A00E007	Dusts	39	30.16	67.48	+	+	+	+	+	+	+
8	<i>Salmonella</i>	arizonae 51:z4,z23	CIP 5523	Turkey meat	24	0	0	-	+	+	+	-	+	-
						21.08	66.31	+						
9	<i>Salmonella</i>	arizonae 48:z4,z23:-	Ad1850	Poultry environmental sample	13	31.16	66.52	+	+	+	+	-	+	-
10	<i>Salmonella</i>	Bardo	Adria 569	Meat for sausage	32	29.92	67.23	+	+	+	+	+	+	+
11	<i>Salmonella</i>	Bareilly	Ad 1687	Chocolate industry	19	29.28	67.35	+	+	+	+	+	+	+
12	<i>Salmonella</i>	Blockley	Ad 923	Poultry environment	15	29.07	67.19	+	+	+	+	+	+	+
13	<i>Salmonella</i>	bongori 66 :z35	Ad 599	Environmental sample	32	29.81	58.76	+	- (white colonies)	+ weak	+	-	- (cream colonies)	-
14	<i>Salmonella</i>	Bovismorbificans	Adria 6629	Sausage	25	29.69	67.4	+	+	+	+	+	+	+
15	<i>Salmonella</i>	Braenderup	Adria 111	Pork meat	24	30.14	67.19	+	+	+	+	+	+	+
16	<i>Salmonella</i>	Brandenburg	Ad 351	Seafood cocktail	24	30.08	67.55	+	+	+	+	+	+	+
17	<i>Salmonella</i>	Bredeney	Adria 396	Ground beef	13	30.74	67.79	+	+	+	+	+	+	+
18	<i>Salmonella</i>	Caracas	Ad2322	Spice	31	30.48	57.86	+	+	+ weak	+	+ weak	+	+ weak
19	<i>Salmonella</i>	Cerro	Ad 689	Dehydrated poultry proteins	19	29.46	67.56	+	+	+ weak	+	-	+	+ weak
20	<i>Salmonella</i>	Chester	CIP 103543	/	25	29	58.04	+	+	+	+	+	+	+
21	<i>Salmonella</i>	Cubana	Ad2323	Dust feed environment	16	29.7	67.41	+	+	+	+	+	+	+
22	<i>Salmonella</i>	Derby	Ad 1093	Fish fillet	33	29.64	67.47	+	+	+	+	+	+	+
23	<i>Salmonella</i>	diarizonae 38:lv:z53	Ad 451	Ewe milk cheese	25	29.75	59	+	+	-	+	-	+	-
24	<i>Salmonella</i>	diarizonae 61:k:1.57	Ad 1300	Raw ewe milk	24	29.46	67.6	+	+	+	+	+	+	+
25	<i>Salmonella</i>	Dublin	Ad 529	Beef meat	28	31.56	67.92	+	- (white colonies)	+ weak	+	-	- (white colonies)	-
26	<i>Salmonella</i>	Emek	Ad 333		18	29.84	67.42	+	+	-	+	+	+	-
27	<i>Salmonella</i>	Enteritidis	Ad 477	Hen meat	26	29.82	67.68	+	+	+	+	+ weak	+	+ weak
28	<i>Salmonella</i>	Gallinarum biovar pullorum	Ad 300	Poultry environment	43	29.98	59.42	+	+	+	+	-	+	+ weak
29	<i>Salmonella</i>	Gaminara	Ad2324	Boar meat	31	29.81	67.49	+	+	+	+	+	+	-
30	<i>Salmonella</i>	Give	436	Ground beef	13	30.03	67.51	+	+	+	+	+	+	+ weak
31	<i>Salmonella</i>	Guinea	29		22	29.18	67.3	+	+	+	+	-	+	+ weak
32	<i>Salmonella</i>	Hadar	24871	Chicken meat	15	29.97	67.45	+	+	+	+	+	+	+

24 h

24 h

24 h

24h

INCLUSIVITY (BPW for 8 h at 41.5°C) (Initial validation study)														
N°	Strain		Reference	Origin	Inoculation Level CFU/225ml	PCR Result			Confirmations					
									ChromID Salmonella		XLD		ASAP	
						CP	Tm	Result	Result	Latex	Result	Latex	Result	Latex
33	Salmonella	Havana	Ad 930	Poultry environment	12	30.13	67.65	+	+	+	+	+	+	+
34	Salmonella	Heidelberg	A00E005	Dusts from dairy industry	21	30.46	67.41	+	+	+	+	+ weak	+	+ weak
35	Salmonella	houtenae 50:g,z51	Ad 596	Dairy product	17	30.85	67.65	+	+	+ weak	+	+	+	+ weak
36	Salmonella	Hvittingfoss	Ad2325	Raw stuff	31	29.54	67.37	+	+	+ weak	+	+	+	+
37	Salmonella	Indiana	Ad174	White cheese	11	29.64	67.29	+	+	+	+	+	+	+
38	Salmonella	indica	Ad600	Environmental sample	27	30.75	67.53	+	- (blue colonies)	+ weak	+ (yellow colonies)	+ weak	+ (pale colonies)	+ weak
39	Salmonella	indica 11:b:e,n,x	Ad2337	Chicken breeding environment	19	0	67.56	+	+ (pale colonies)	+ weak	+ (yellow edge)	+ weak	+ (pale colonies)	+
40	Salmonella	Infantis	F401B	Cheese	18	29.45	67.47	+	+	+	+	+	+	+
41	Salmonella	Javiana	Ad2326	Turkey meat	36	29.77	67.57	+	+	+ weak	+	+ weak	+	+ weak
42	Salmonella	Kedougou	Ad929	Bovine environmental sample	16	30.53	67.35	+	+	+ weak	+	+	+	+
43	Salmonella	Kentucky	CIP 105623	/	21	29.75	67.46	+	+	+	+	+	+	+
44	Salmonella	Kottbus	Adria 1	Poultry environmental sample	20	30.08	67.49	+	+	+	+	+	+	+
45	Salmonella	Landau	Ad499	/	26	0	0	-	+ (pale colonies)	+	+	+	+	+
						20.59	67.75	+	+	+	+	+	+	+
46	Salmonella	Lille	Adria 37	Food product	19	29.92	67.35	+	+	+	+	+	+	+
47	Salmonella	Livingstone	Ad1107	Dusts	31	29.48	67.13	+	+	+	+	+	+	+
48	Salmonella	London	Adria 326	Cooked meat sample	33	29.86	67.45	+	+	+	+	+	+	+
49	Salmonella	Luciana	CIP 105626	/	13	30.89	67.7	+	+ (pale green colonies)	+	+	+	st	/
50	Salmonella	Manhattan	Adria 900	Dusts from dairy industry	28	29.5	67.3	+	+	+	+	+	+	+
51	Salmonella	Maracaibo	CIP 54143	/	2	31.94	68.1	+	+	+	+	+	+	+
52	Salmonella	Marseille	CIP105627	/	20	29.97	57.96	+	+	+	+	+	+	+ weak
53	Salmonella	Mbandaka	Ad 914	Mayonnaise	37	29.19	67.78	+	+	+	+	+	+	+
54	Salmonella	Meleagridis	505	Raw milk	24	29.85	67.67	+	+	+	+	+ weak	+	+
55	Salmonella	Michigan	Ad2327	Low moisture sausage	40	29.97	67.72	+	+	+	+	+	+	+
56	Salmonella	Mikawasima	Ad1811	Raw ewe milk	40	30.26	67.83	+	+	+	+	+ weak	+	+
57	Salmonella	Minnesota	Ad2328	Feed	44	30.19	67.69	+	+	+	+	+	+	+
58	Salmonella	Missisipi	Ad2329	Parakeet	35	30.86	68.02	+	+	+	+	+	+	+
59	Salmonella	Montevideo	Ad912	Raw milk	28	30.34	67.6	+	+	+	+	+	+	+
60	Salmonella	Muenchen	CIP 106178	/	13	29.79	67.32	+	+	+	+	+	+	+
61	Salmonella	Napoli	Ad 928	Clinical	29	29.26	67.45	+	+	+	+	+	+	+
62	Salmonella	Newport	Adria 586	Sausage	17	30.18	67.35	+	+	+	+	+	+	+
63	Salmonella	Norwich	Ad1172	/	27	29.09	67.43	+	+	+	+	+	+	+
64	Salmonella	Ohio	Ad1482	Raw cow milk	19	30.07	67.54	+	+	+	+	+	+	+
65	Salmonella	Orion	27	/	17	0	67.76	+	+ (pale colonies)	+ weak	+ (small colonies)	+ weak	st	/
66	Salmonella	Orianenburg	Ad1724	Cereals	36	30	67.47	+	+	+	+	+	+	+
67	Salmonella	Ovakam	Ad1647	Compost	34	29.86	67.6	+	+	+	+	+	+	+ weak
68	Salmonella	Panama	Adria 8	Ground beef	20	29.03	67.32	+	+	+	+	+	+	+

24 h

INCLUSIVITY (BPW for 8 h at 41.5°C) (Initial validation study)														
N°	Strain		Reference	Origin	Inoculation Level CFU/225ml	PCR Result			Confirmations					
									ChromID Salmonella		XLD		ASAP	
						CP	Tm	Result	Result	Latex	Result	Latex	Result	Latex
69	Salmonella	Paratyphi A	ATCC 9150	/	16	31.55	67.69	+	+ (pale pink colonies)	+	+ (H2S-)	+ weak	+ (pale colonies)	+
70	Salmonella	Paratyphi B	Ad 301	Clinical	19	28.84	67.46	+	+	+	+	+	+	+
71	Salmonella	Paratyphi C	ATCC 13428	/	21	30.48	67.43	+	+ (pale pink colonies)	+	+	+	+ (white pink colonies)	+
72	Salmonella	Pomona	CIP105630	/	23	30.15	67.43	+	+	+	+ (yellow colonies, H2S-)	+	+ (pale colonies)	+
73	Salmonella	Poona	Ad2330	Poultry feed	56	29.47	57.84	+	+	+	+	+	+	+
74	Salmonella	Putten	Ad2331	Feed for chicken	45	30.46	67.7	+	+	+	+	+	+	+
75	Salmonella	Regent	Adria 328	Duck	17	30.69	67.63	+	+	+	+	+ weak	+	+
76	Salmonella	Rissen	Adria 39	Food product	13	30.67	67.34	+	+	+	+	+	+	+
77	Salmonella	Rubislaw	Ad2332	Shark cartilage	33	29.55	67.49	+	+	+	+	+	+	+
78	Salmonella	Saintpaul	Adria F31	Pilchard fillets	47	29.01	67.49	+	+	+	+	+	+	+
79	Salmonella	salamae 42ib:enz15	Ad 593	Cereals	29	29.67	67.47	+	+ (pale colonies)	+	+	+	+ (pink colonies)	+
80	Salmonella	Schwarzengrund	Ad2333	Egg products environment	39	28.66	67.46	+	+	+	+	+ weak	+	+
81	Salmonella	Senftenberg	Ad355	Seafood cocktail	16	29.68	67.34	+	+ (white pink colonies)	+	+	+	+ (pink colonies)	+
82	Salmonella	Stanley	CIP106163	/	27	30.05	67.56	+	+	+	+	+	+	+
83	Salmonella	Sternschanze	Ad500	/	24	29.62	67.59	+	+	+ weak	+	+ weak	+	+
84	Salmonella	Strasbourg	CIP105632	/	12	30.63	67.44	+	- (blue colonies)	+ weak	+	+	st	/
85	Salmonella	Tananarive	CIP54142	/	29	29.6	67.5	+	+	+	+	+	+	+
86	Salmonella	Tennessee	A00E006	Dusts from dairy industry	27	28.91	67.48	+	+	+	+	+	+	+
87	Salmonella	Thompson	AER301	Poultry	22	28.67	67.47	+	+	+	+	+	+	+
88	Salmonella	Typhi	Ad302	Clinical	25	28.07	67.49	+	+	+	+	+	+	+
89	Salmonella	Typhimurium	Ad1070	Pork meat	30	29.24	67.39	+	+	+	+	+	+	+
90	Salmonella	Typhimurium 1.4 [5], I2:-:-	Ad1333	Tiramisu	40	28.46	67.68	+	+	+	+	+	+	+
91	Salmonella	Typhimurium 1.4 [5], I2:-:1.2	Ad1335	Poultry environmental sample	29	29.68	67.62	+	+	+	+	+	+	+
92	Salmonella	Typhimurium 1.4 [5], II2:i:-	Ad1334	Ready to cook pork	37	28.87	67.4	+	+	+	+	+ weak	+	+
93	Salmonella	Urbana	Ad501	Food product	36	29.5	67.49	+	+	+	+	+ weak	+	+ weak
94	Salmonella	Veneziana	Adria 233	Food product	23	30.04	67.32	+	+	+ weak	+	+	+	+
95	Salmonella	Virchow	Adria F276	Curry	34	29.26	67.43	+	+	+	+	+	+	+
96	Salmonella	Wandsworth	Ad2335	Fillet of mullet	30	30.01	67.45	+	+	+ weak	+	+ weak	+	+ weak
97	Salmonella	Waycross	CIP105634	/	40	29.7	67.26	+	+	+ weak	+	-	+	+ weak
98	Salmonella	Wayne	Ad502	Food product	11	0	0	-	- (white colonies)	-	- (yellow colonies)	-	+ (pale colonies)	+ weak
						22.7	68	+	+ (pale colonies)	+ weak	+ (small colonies)	+ weak	+	+ weak
99	Salmonella	Weltevreden	Ad2336	Treated water	38	29.56	67.59	+	+	+	+	+	+	+
100	Salmonella	Worthington	Adria 3506	Pâté	45	29.58	67.4	+	+	+	+	+	+	+

24 h

Additional tests

N°	Strain			Origin	Inoculation Level CFU/225ml	PCR Result			Confirmations						
									ChromID Salmonella		XLD		ASAP		
						CP	Tm	Result	Result	Latex	Result	Latex	Result	Latex	
98	Salmonella	Wayne	Ad502	Food product	11 (+milk)	0	67.12	+	- (white colonies)	-	- (yellow colonies)	-	+ (pale colonies)	+ weak	8h
						22.93	67.47	+	+ (pale colonies)	+ weak	+ (small colonies)	+ weak	+	+ weak	24h
3	Salmonella	Abortusequi	Ad2321	/	15 (+milk)	0	0	-	st	/	st	/	st	/	8h
						25.74	74	+	+	+	H2S-	+	pale micro-colonies	+	24h
					20 (+meat)	0	67.79	+	+(10) pale colonies	+	H2S-	+	st	/	8h
4	Salmonella	Abortusovis	Ad2320	Ovine foetus	15 (+milk)	0	0	-	st	/	st	/	st	/	8h
						25	67.17	+	white colonies	+	H2S-	+	white micro-colonies	+w	24h
					28 (+meat)	0	67.52	+	st	/	st	/	st	/	8h
5	Salmonella	Adelaïde	Ad2319	Turkey breeding environment	52 (+milk)	0	0	-	st	/	st	/	+(1) pale	+w	8h
						22.56	67.65	+	+ pale pink colonies	+w	+	+	+	+w	24h
					23(+meat)	31.75	67.21	+	st	/	st	/	+(1) pale	+w	8h
8	Salmonella	arizonae 51:z4,z23	CIP 5523	Turkey meat	28 (+milk)	0	0	-	st	/	+pales colonies	+w	+small	+w	8h
						22.62	65.9	+	+	+	+w	+	+w	24h	
					28(+meat)	29.78	66.06	+	st	/	+pales colonies	+w	+small	+w	8h
45	Salmonella	Landau	Ad499	/	30 (+milk)	32.52	67.36	+	+pale colonies	+w	+	+w	+	+w	8h
						23.82	67.22	+	+	+w	+	+	+	+w	24h

INCLUSIVITY (Extension No 8) (2020) – Specific protocol ⑨												
N°	Strain		Reference	Origin	Inoculation level CFU/225ml)	Tetrathionate - 18h à 37°C						
						Subculture in SX2 (0.1 ml + 10 ml) for 18 h at 41.5°C						
						GENE UP			Confirmation			
						CP SLM	TM (°C) SLM	PCR result	ASAP		XLD	
									Reading	Latex	Reading	Latex
1	<i>Salmonella</i>	Abaetetuba	Ad2318	Unknown	23	25.01	66.94	+	+	+	+	+
2	<i>Salmonella</i>	Aberdeen	CIP 105618	Unknown	28	23.47	66.9	+	+	+	+	+
3	<i>Salmonella</i>	Abortusequi	Ad2321	Unknown	5	25.07	67.1	+	μ	+	H2S-	+
4	<i>Salmonella</i>	Abortusovis	Ad2320	Ovine foetus	12	29.77	66.62	+	st		H2S-	+
5	<i>Salmonella</i>	Adelaïde	Ad2319	Turkey breeding environment	30	23.52	67.08	+	bluish	+	+	+
6	<i>Salmonella</i>	Agona	A00V038	Feed for pork	24	23.16	67.05	+	+	+	+	+
7	<i>Salmonella</i>	Anatum	A00E007	Dusts	30	23.25	66.9	+	+	+	+	+
8	<i>Salmonella</i>	arizonae 51:z4,z23	CIP 5523	Turkey meat	23	24.02	65.72	+	+	+	+	+
9	<i>Salmonella</i>	arizonae 48:z4,z23:-	Ad1850	Poultry environmental sample	13	21.89	66.6	+	+	+	+	+
10	<i>Salmonella</i>	Bardo	Adria 569	Meat for sausage	22	21.91	66.84	+	+	+	+	+
11	<i>Salmonella</i>	Bareilly	Ad 1687	Chocolate industry	11	22.01	66.86	+	+	+	+	+
12	<i>Salmonella</i>	Blockley	Ad 923	Poultry environment	20	22.15	58.01	+	+	+	+	+
13	<i>Salmonella</i>	bongori 66 :z35	Ad 599	Environmental sample	37	22.21	67.01	+	white	+	+	+
14	<i>Salmonella</i>	Bovismorbificans	Adria 6629	Sausage	27	22.01	66.7	+	+	+	+	+
15	<i>Salmonella</i>	Braenderup	Adria 111	Pork meat	33	22.64	66.93	+	+	+	+	+
16	<i>Salmonella</i>	Brandenburg	Ad 351	Seafood cocktail	12	21.9	65.51	+	+	+	+	+
17	<i>Salmonella</i>	Bredeney	Adria 396	Ground beef	11	22.97	66.8	+	+	+	+	+
18	<i>Salmonella</i>	Caracas	Ad2322	Spice	26	21.97	57.14	+	+	+	+	+
19	<i>Salmonella</i>	Cerro	Ad 689	Dehydrated poultry proteins	6	22.01	66.8	+	+	+	+	+
20	<i>Salmonella</i>	Chester	CIP 103543	Unknown	13	22.44	57.12	+	+	+	+	+
21	<i>Salmonella</i>	Cubana	Ad2323	Dust feed environment	14	22.12	66.6	+	+	+	+	+
22	<i>Salmonella</i>	Derby	Ad 1093	Fish fillet	18	22.44	66.92	+	+	+	+	+
23	<i>Salmonella</i>	diarizonae 38:lv:z53	Ad 451	Ewe milk cheese	22	22.11	58.31	+	+	+	+	-
24	<i>Salmonella</i>	diarizonae 61:k:1.57	Ad 1300	Raw ewe milk	14	22.41	67.02	+	+	+	+	+
25	<i>Salmonella</i>	Dublin	Ad 529	Beef meat	15	23.95	67.21	+	white	+	+	+
26	<i>Salmonella</i>	Emek	Ad 333	Unknown	20	22.8	66.98	+	+	+	+	+
27	<i>Salmonella</i>	Enteritidis	Ad 477	Hen meat	22	22.19	66.86	+	+	+	+	+
28	<i>Salmonella</i>	Gallinarum biovar pullorum	Ad 300	Poultry environment	5	26.98	65.72	+	μ	-	H2S-	-
29	<i>Salmonella</i>	Gaminara	Ad2324	Boar meat	26	21.71	67.02	+	+	+	+	+
30	<i>Salmonella</i>	Give	436	Ground beef	23	20.93	66.83	+	+	+	+	+
31	<i>Salmonella</i>	Guinea	29	Unknown	29	22.18	66.81	+	pale	+	H2S-	-
32	<i>Salmonella</i>	Hadar	24871	Chicken meat	24	23.54	67.38	+	+	+	+	+
33	<i>Salmonella</i>	Havana	Ad 930	Poultry environment	16	24.14	67.44	+	+	+	+	+
34	<i>Salmonella</i>	Heidelberg	A00E005	Dusts from dairy industry	28	20.74	66.72	+	+	+	+	+
35	<i>Salmonella</i>	houtenae 50:g,z51	Ad 596	Dairy product	15	21.13	66.78	+	+	+	+	+
36	<i>Salmonella</i>	Hvittingfoss	Ad2325	Raw stuff	16	20.58	66.69	+	+	+	+	+
37	<i>Salmonella</i>	Indiana	Ad 174	White cheese	19	20.43	66.64	+	pale	+	+	+
38	<i>Salmonella</i>	indica	Ad 600	Environmental sample	22	25.52	66.35	+	pale	+	+	+
39	<i>Salmonella</i>	indica 11:b:e,n,x	Ad2337	Chicken breeding environment	16	26.55	66.73	+	+	+	+	+
40	<i>Salmonella</i>	Infantis	F401B	Cheese	32	21.71	66.84	+	+	+	+	+
41	<i>Salmonella</i>	Javiana	Ad2326	Turkey meat	43	24.89	67.08	+	+	+	+	+
42	<i>Salmonella</i>	Kedougou	Ad 929	Bovine environmental sample	11	22.62	67.14	+	+	+	+	+

INCLUSIVITY (Extension No 8) (2020) – Specific protocol ⑨												
N°	Strain		Reference	Origin	Inoculation level CFU/225ml)	Tetrathionate - 18h à 37°C						
						Subculture in SX2 (0.1 ml + 10 ml) for 18 h at 41.5°C						
						GENE UP			Confirmation			
						CP SLM	TM (°C) SLM	PCR result	ASAP		XLD	
									Reading	Latex	Reading	Latex
43	Salmonella	Kentucky	CIP 105623	Unknown	10	21.79	66.86	+	+	+	+	+
44	Salmonella	Kottbus	Adria 1	Poultry environmental sample	47	21.08	66.85	+	pale	+	+	+
45	Salmonella	Landau	Ad 499	Unknown	25	21.18	66.54	+	+	+	+	+
46	Salmonella	Lille	Adria 37	Food product	43	21.79	66.8	+	+	+	+	+
47	Salmonella	Livingstone	Ad 1107	Dusts	28	20.75	66.84	+	+	+	+	+
48	Salmonella	London	Adria 326	Cooked meat sample	31	20.57	66.74	+	+	+	+	+
49 49 with feces*	Salmonella	Luciana	CIP 105626	Unknown	11			-	st		st	
					16			-	- blue	-	-	-
					120			-	st		st	
					130			-	st		st	
50	Salmonella	Manhattan	Adria 900	Dusts from dairy industry	26	22.18	67.08	+	+	+	+	+
51	Salmonella	Maracaibo	CIP 54143	Unknown	21	23.2	65.63	+	+	+	+	+
52	Salmonella	Marseille	CIP105627	Unknown	19	30.03	56.04	+	+	+	+	+
53	Salmonella	Mbandaka	Ad914	Mayonnaise	29	22.53	65.54	+	+	+	+	+
54	Salmonella	Meleagridis	505	Raw milk	15	22.73	65.8	+	+	+	+	+
55	Salmonella	Michigan	Ad2327	Low moisture sausage	22	23.11	65.84	+	+	+	+	+
56	Salmonella	Mikawasima	Ad1811	Raw ewe milk	23	23.46	65.5	+	+	+	+	+
57	Salmonella	Minnesota	Ad2328	Feed	29	23.63	65.72	+	+	+	+	+
58	Salmonella	Missisipi	Ad2329	Parakeet	9 (48h)	22.69	65.64	+	+	+	+	+
59	Salmonella	Montevideo	Ad912	Raw milk	17	22.82	65.43	+	+	+	+	+
60	Salmonella	Muenchen	CIP 106178	Unknown	11	23.18	65.62	+	+	+	+	+
61	Salmonella	Napoli	A 928	Clinical	30	22.87	65.47	+	+	+	+	+
62	Salmonella	Newport	Adria 586	Sausage	3 (48h)	22.98	65.37	+	+	+	+	+
63	Salmonella	Norwich	Ad1172	Unknown	15	21.82	65.3	+	+	+	+	+
64	Salmonella	Ohio	Ad1482	Raw cow milk	5 (48h)	22.82	65.24	+	+	+	+	+
65	Salmonella	Orion	27	Unknown	5 (48h)	22.65	65.29	+	pale	+	+	+
66	Salmonella	Orianenburg	Ad1724	Cereals	21	23.48	65.64	+	+	+	+	+
67	Salmonella	Ovakam	Ad1647	Compost	17	22.64	65.53	+	+	+	+	+
68	Salmonella	Panama	Adria 8	Ground beef	12	22.79	65.66	+	+	+	+	+
69	Salmonella	Paratyphi A	ATCC 9150	Unknown	23	22.71	65.58	+	+	+	+	+
70	Salmonella	Paratyphi B	Ad301	Clinical	15	22.92	65.49	+	+	+	+	+
71	Salmonella	Paratyphi C	ATCC 13428	Unknown	27	22.8	65.6	+	pale	+	+	+
72	Salmonella	Pomona	CIP105630	Unknown	21	22.7	65.51	+	+	+	+	+
73	Salmonella	Poona	Ad2330	Poultry feed	24	22.7	55.52	+	+	+	+	+
74	Salmonella	Putten	Ad2331	Feed for chicken	27	23.6	65.81	+	+	+	+	+
75	Salmonella	Regent	Adria 328	Duck	22	23.48	66.09	+	+	+	+	+
76	Salmonella	Rissen	Adria 39	Food product	6 (48H)	23.26	65.79	+	+	+	+	+
77	Salmonella	Rubislaw	Ad2332	Shark cartilage	23	22.55	66.16	+	+	+	+	+
78	Salmonella	Saintpaul	Adria F31	Pilchard fillets	32	21.92	66.08	+	+	+	+	+
79	Salmonella	salamae 42ib:enz15	Ad593	Cereals	12	22.28	65.85	+	pale	+	+	+
80	Salmonella	Schwarzengrund	Ad2333	Egg products environment	33	22.45	66.05	+	+	+	+	+
81	Salmonella	Senftenberg	Ad 355	Seafood cocktail	19	22.12	65.77	+	+	+	+	+

INCLUSIVITY (Extension No 8) (2020) – Specific protocol ⑨												
N°	Strain		Reference	Origin	Inoculation level CFU/225ml)	Tetrathionate - 18h à 37°C						
						Subculture in SX2 (0.1 ml + 10 ml) for 18 h at 41.5°C						
						GENE UP			Confirmation			
						CP SLM	TM (°C) SLM	PCR result	ASAP		XLD	
									Reading	Latex	Reading	Latex
82	Salmonella	Stanley	CIP106163	Unknown	5 (48H)	23.03	65.99	+	+	+	+	+
83	Salmonella	Sternschanze	Ad500	Unknown	13	21.17	65.78	+	+	+	+	+
84	Salmonella	Strasbourg	CIP105632	Unknown	7 (48H)	22.32	65.46	+	- blue	-	+	+
85	Salmonella	Tananarive	CIP54142	Unknown	37	21.88	65.84	+	+	+	+	+
86	Salmonella	Tennessee	A00E006	Dusts from dairy industry	30	21.68	65.56	+	+	+	+	+
87	Salmonella	Thompson	AER301	Poultry	39	21.04	65.55	+	+	+	+	+
88	Salmonella	Typhi	Ad302	Clinical	11	27.74	65.66	+	+	+	H2S-	+
89	Salmonella	Typhimurium	Ad1070	Pork meat	19	21.77	65.57	+	+	+	+	+
90	Salmonella	Typhimurium 1.4 [5], I2:-:-	Ad1333	Tiramisu	58	22.02	65.55	+	+	+	+	+
91	Salmonella	Typhimurium 1.4 [5], I2:-:1.2	Ad1335	Poultry environmental sample	25	22.3	65.64	+	+	+	+	+
92	Salmonella	Typhimurium 1.4 [5], II2:i:-	Ad1334	Ready to cook pork	29	21.71	65.85	+	+	+	+	+
93	Salmonella	Urbana	Ad501	Food product	17	25.58	65.67	+	pale	+	+	+
94	Salmonella	Veneziana	Adria 233	Food product	17	21.81	65.71	+	+	+	+	+
95	Salmonella	Virchow	Adria F276	Curry	23	21.54	65.73	+	+	+	+	+
96	Salmonella	Wandsworth	Ad2335	Fillet of mullet	17	21.73	65.66	+	+	+	+	+
97	Salmonella	Waycross	CIP105634	Unknown	45	22.25	66.02	+	+	+	+	+
98	Salmonella	Wayne	Ad502	Food product	13	23.48	65.79	+	pale	+	+	+
99	Salmonella	Weltevreden	Ad2336	Treated water	38	22.26	66.02	+	+	+	+	+
100	Salmonella	Worthington	Adria 3506	Pâté	13	21.98	65.87	+	+	+	+	+

N°	Strain		Reference	Origin	Inoculation level CFU/225ml)	Reference method					
						MSRV			MKTTN		
						Result	XLD	ASAP	XLD	ASAP	
49 with feces	Salmonella	Luciana	CIP 105626	Unknown	130	+ D	+	+ (blue)	+	+ (blue)	

INCLUSIVITY (Extension No 11, 2023)

N°	Strain		Reference	Origin	Inoculation level (CFU/225ml)	Prewarmed BPW + BACTBOOST 10h at 37 ± 1°C-Protocol ⑪											
						GENE UP					Confirmation						
						Specific protocol ⑪					SM2		ASAP		XLD	SALMA	
						CP SLM	CP IC	TM (°C) SLM	TM (°C) IC	PCR result	Growth/aspect	Latex	Growth/aspect	Latex	Growth/aspect	Growth/aspect	Latex
1	Salmonella	Abaetetuba	Ad2318	Unknown	56	16.77	16.87	66.32	66.14	+	+	+	+	+	+	+	+
2	Salmonella	Aberdeen	CIP 105618	Unknown	24	19.48	19.66	66.12	65.90	+	+	+	+	+	+	+	+
3	Salmonella	Abortusequi	Ad2321	Unknown	16	29.09	29.78	66.65	61.79	+	+	+	+	+	+	+	+
4	Salmonella	Abortusovis	Ad2320	Ovine foetus	24 (48h)	32.87	32.94	66.08	62.02	+	+	+	No growth	/	+	+	+
5	Salmonella	Adelaïde	Ad2319	Turkey breeding environment	53	25.92	26.14	66.45	66.24	+	+	+	+	+	+	+	+
6	Salmonella	Agona	A00V038	Feed for pork	25	16.88	16.93	66.20	65.85	+	+	+	+	+	+	+	+
7	Salmonella	Anatum	A00E007	Dusts	48	16.13	16.18	65.95	65.20	+	+	+	+	+	+	+	+
8	Salmonella	arizonae 51:z4,z23	CIP 8230	Turkey meat	57	17.29	17.31	64.93	64.67	+	+	-	+	-	+	+	-
9	Salmonella	arizonae 48:z4,z23:-	Ad1850	Poultry environmental sample	29	17.64	17.78	64.77	64.48	+	+	-	+	-	+	+	-
10	Salmonella	Bardo	Adria 569	Meat for sausage	51	30.97	31.54	65.52	61.39	+	+	+	+	+	+	+	+
11	Salmonella	Bareilly	Ad1687	Chocolate industry	11	17.81	17.88	65.72	65.09	+	+	+	+	+	+	+	+
12	Salmonella	Blockley	Ad923	Poultry environment	32	17.10	17.17	65.54	65.32	+	+	+	+	+	+	+	+
13	Salmonella	bongori 66 :z35	Ad598	Environmental sample	74	17.43	17.66	56.91	56.49	+	+	-	+	-	+	+	-
14	Salmonella	Bovismorbificans	Adria 6629	Sausage	32	31.66	32.03	65.59	61.39	+	+	+	+	+	+	+	+
15	Salmonella	Braenderup	Adria 111	Pork meat	28	16.18	16.19	65.64	65.22	+	+	+	+	+	+	+	+
16	Salmonella	Brandenburg	Ad351	Seafood cocktail	40	16.07	16.10	66.08	65.81	+	+	+	+	+	+	+	+
17	Salmonella	Bredeney	Adria 396	Ground beef	17	31.47	31.76	65.91	61.80	+	+	+	+	+	+	+	+
18	Salmonella	Caracas	Ad2322	Spice	49	21.76	21.87	56.23	55.70	+	+	+	+	+	+	+	+
19	Salmonella	Cerro	Ad689	Dehydrated poultry proteins	49	20.71	20.90	66.17	65.61	+	+	+	+	+	+	+	+
20	Salmonella	Chester	CIP 103543	Unknown	28	19.98	20.22	66.08	65.21	+	+	+	+	+	+	+	+
21	Salmonella	Cubana	Ad2323	Dust feed environment	34	17.36	0	56.33	55.89	+	+	+	+	+	+	+	+
22	Salmonella	Derby	Ad1093	Fish fillet	50	22.31	22.46	66.11	65.30	+	+	+	+	+	+	+	+
23	Salmonella	diarizonae 38:lv:z53	Ad451	Ewe milk cheese	75	21.95	21.94	57.71	57.14	+	+	+	+	+	+	+	+
24	Salmonella	diarizonae 61:k:1.57	Ad1300	Raw ewe milk	39	18.32	18.56	66.14	65.73	+	+	+	+	+	+	+	+
25	Salmonella	Dublin	Ad529	Beef meat	53	20.25	20.45	66.18	65.50	+	+	+	+	+	+	+	+
26	Salmonella	Emek	Ad333	Unknown	32	15.76	15.69	66.22	65.42	+	+	+	+	+	+	+	+
27	Salmonella	Enteritidis	Ad477	Hen meat	38	18.50	18.67	65.98	65.06	+	+	+	+	+	+	+	+
28	Salmonella	Gallinarum biovar pullorum	Ad300	Poultry environment	11	29.53	30.42	65.84	61.58	+	+	+	+	+	+	+	+
29	Salmonella	Gaminara	Ad2324	Boar meat	40	18.86	18.97	66.27	65.19	+	+	+	+	+	+	+	+
30	Salmonella	Give	Adria 436	Ground beef	22	18.22	18.52	66.08	64.71	+	+	+	+	+	+	+	+
31	Salmonella	Guinea	Adria 29	Unknown	67	16.18	16.14	66.11	65.12	+	+	+	+	+	+	+	+
32	Salmonella	Hadar	Adria 24871	Chicken meat	47	24.80	25.03	65.62	65.93	+	+	+	+	+	+	+	+
33	Salmonella	Havana	Ad930	Poultry environment	66	16.68	16.85	66.31	65.79	+	+	+	+	+	+	+	+
34	Salmonella	Heidelberg	A00E005	Dusts from dairy industry	56	25.13	25.47	65.90	65.97	+	+	+	+	+	+	+	+
35	Salmonella	houtenae1.40:z4:z23	Ad2682	Primary production sample (poultry)	68	31.76	32.30	65.83	61.36	+	+	+	+	+	+	+	+
36	Salmonella	Hvittingfoss	Ad2325	Raw stuff	41	16.11	16.06	66.13	64.61	+	+	+	+	+	+	+	+

INCLUSIVITY (Extension No 11, 2023)

N°	Strain		Reference	Origin	Inoculation level (CFU/225ml)	Prewarmed BPW + BACTBOOST 10h at 37 ± 1°C-Protocol ⑪											
						GENE UP					Confirmation						
						Specific protocol ⑪					SM2		ASAP		XLD	SALMA	
						CP SLM	CP IC	TM (°C) SLM	TM (°C) IC	PCR result	Growth/aspect	Latex	Growth/aspect	Latex	Growth/aspect	Growth/aspect	Latex
37	<i>Salmonella</i>	Indiana	Ad174	White cheese	16	16.74	17.06	66.15	64.54	+	+	+	+	+	+	+	+
38	<i>Salmonella</i>	<i>indica</i>	Ad600	Environmental sample	52	22.86	22.97	65.58	65.47	+	+ (clear blue)		+	+	+	+	+
39	<i>Salmonella</i>	<i>indica</i> 11:b:e,n,x	Ad2337	Chicken breeding environment	23	21.04	21.21	65.50	65.24	+	+	+	+	+	+	+	+
40	<i>Salmonella</i>	Infantis	F401B	Cheese	27	18.68	18.97	66.16	64.77	+	+	+	+	+	+	+	+
41	<i>Salmonella</i>	Javiana	Ad2326	Turkey meat	31	16.03	15.96	66.22	65.44	+	+	+	+	+	+	+	+
42	<i>Salmonella</i>	Kedougou	Ad929	Bovine environmental sample	16	18.46	18.64	66.30	65.79	+	+	+	+	+	+	+	+
43	<i>Salmonella</i>	Kentucky	Ad1756	Poultry environmental sample	32	16.11	16.43	65.60	64.51	+	+	+	+	+	+	+	+
44	<i>Salmonella</i>	Kottbus	Adria 1	Poultry environmental sample	100	16.67	16.79	66.15	65.27	+	+	+	+	+	+	+	+
45	<i>Salmonella</i>	Landau	Ad499	Unknown	52	21.99	22.20	66.21	65.46	+	+	+ (weak)	+	+	+	+	+ (weak)
46	<i>Salmonella</i>	Lille	Adria 37	Food product	60	17.46	17.71	66.06	65.56	+	+	+	+	+	+	+	+
47	<i>Salmonella</i>	Livingstone	Ad1107	Dusts	48	20.12	20.25	65.57	65.14	+	+	+	+	+	+	+	+
48	<i>Salmonella</i>	London	Adria 326	Cooked meat sample	79	15.66	15.76	66.00	65.10	+	+	+	+	+	+	+	+
49	<i>Salmonella</i>	Luciana	CIP 105626	Unknown	15	23.56	23.67	65.74	65.35	+	+	+	+ (blue)		+	+	+
50	<i>Salmonella</i>	Manhattan	Adria 900	Dusts from dairy industry	57	16.03	16.02	66.23	65.96	+	+	+	+	+	+	+	+
51	<i>Salmonella</i>	Maracaibo	CIP 54143	Unknown	39	18.63	18.71	66.70	66.32	+	+	+	+	+	+	+	+
52	<i>Salmonella</i>	Marseille	CIP105627	Unknown	24	17.74	17.89	56.54	56.17	+	+	+	+	+	+	+	+
53	<i>Salmonella</i>	Mbandaka	Ad914	Mayonnaise	35	16.55	16.60	66.26	65.32	+	+	+	+	+	+	+	+
54	<i>Salmonella</i>	Meleagridis	Adria 505	Raw milk	32	23.13	23.30	66.54	65.80	+	+	+	+	+	+	+	+
55	<i>Salmonella</i>	Michigan	Ad2327	Low moisture sausage	22	19.63	19.76	66.33	65.73	+	+	+	+	+	+	+	+
56	<i>Salmonella</i>	Mikawasima	Ad1811	Raw ewe milk	54	30.23	30.97	65.95	61.65	+	+	+	+	+	+	+	+
57	<i>Salmonella</i>	Minnesota	Ad2328	Feed	52	21.18	21.28	65.73	65.71	+	+	+	+	+	+	+	+
58	<i>Salmonella</i>	Missisipi	Ad2329	Parakeet	34	17.89	17.98	66.34	66.07	+	+	+	+	+	+	+	+
59	<i>Salmonella</i>	Montevideo	Ad912	Raw milk	24	18.56	18.81	65.72	65.61	+	+	+	+	+	+	+	+
60	<i>Salmonella</i>	Muenchen	CIP 106178	Unknown	18	17.67	17.79	66.05	65.55	+	+	+	+	+	+	+	+
61	<i>Salmonella</i>	Napoli	Ad 928	Clinical	70	16.51	16.57	66.04	65.40	+	+	+	+	+	+	+	+
62	<i>Salmonella</i>	Newport	Adria 586	Sausage	24	19.19	19.17	66.02	64.75	+	+	+	+	+	+	+	+ (weak)
63	<i>Salmonella</i>	Norwich	Ad1172	Unknown	29	20.81	21.01	66.15	65.75	+	+	+	+	+	+	+	+ (weak)
64	<i>Salmonella</i>	Ohio	Ad1482	Raw cow milk	25	19.84	19.96	66.05	65.31	+	+	+	+	+	+	+	+
65	<i>Salmonella</i>	Orion	Adria 27	Unknown	12	26.30	26.72	65.48	61.50	+	+	+	+ (white)		+ (weak)	+	+
66	<i>Salmonella</i>	Orianenburg	Ad1724	Cereals	35	19.13	19.28	66.26	65.66	+	+	+	+	+	+	+	+
67	<i>Salmonella</i>	Ouakam	Ad1647	Compost	52	30.72	31.42	65.95	61.63	+	+	+	+	+	+	+	+
68	<i>Salmonella</i>	Panama	Adria 8	Ground beef	16	30.71	31.48	65.67	61.42	+	+	+	+	+	+	+	+
69	<i>Salmonella</i>	Paratyphi A	ATCC 9150	Unknown	48	16.50	16.70	66.28	65.50	+	+	+ (weak)	+	+	+	+	+
70	<i>Salmonella</i>	Paratyphi B	Ad301	Clinical	33	17.07	17.25	66.20	65.38	+	+	+	+	+	+	+	+
71	<i>Salmonella</i>	Paratyphi C	ATCC 13428	Unknown	45	19.57	19.88	66.18	65.47	+	+	+	+	+	+	+	+
72	<i>Salmonella</i>	Pomona	CIP105630	Unknown	43	19.61	19.85	65.70	65.06	+	+	+	+	+	+	+	+
73	<i>Salmonella</i>	Poona	Ad2330	Poultry feed	27	18.52	18.55	56.26	55.75	+	+	+	+	+ (weak)	+	+	+ (weak)

INCLUSIVITY (Extension No 11, 2023)																	
N°	Strain		Reference	Origin	Inoculation level (CFU/225ml)	Prewarmed BPW + BACTBOOST 10h at 37 ± 1°C-Protocol ⑪											
						GENE UP					Confirmation						
						Specific protocol ⑪					SM2		ASAP		XLD	SALMA	
						CP SLM	CP IC	TM (°C) SLM	TM (°C) IC	PCR result	Growth/aspect	Latex	Growth/aspect	Latex	Growth/aspect	Growth/aspect	Latex
74	Salmonella	Putten	Ad2331	Feed for chicken	95	20.21	20.30	65.87	65.80	+	+	+	+	+	+	+	+
75	Salmonella	Regent	Adria 328	Duck	21	18.64	18.72	66.29	65.59	+	+	+	+	+	+	+	+
76	Salmonella	Rissen	Adria 39	Food product	49	20.10	20.45	65.97	65.46	+	+	+	+	+	+	+	+
77	Salmonella	Rubislaw	Ad2332	Shark cartilage	51	16.76	16.84	65.56	65.59	+	+	+	+	+	+	+	+
78	Salmonella	Saintpaul	Adria F31	Pilchard fillets	61	16.82	16.82	66.23	65.66	+	+	+	+	+	+	+	+
79	Salmonella	salamae 42ib:enz15	Ad593	Cereals	47	19.71	19.85	65.60	65.10	+	+	+		+	+	+	+
80	Salmonella	Schwarzengrund	Ad2333	Egg products environment	56	16.89	16.95	66.21	65.62	+	+	+	+	+	+	+	+
81	Salmonella	Senftenberg	Ad355	Seafood cocktail	65	17.72	17.80	66.25	65.80	+	+	+	+	+	+	+	+
82	Salmonella	Stanley	Ad1688	Chocolate industry	36	21.49	21.66	65.53	65.15	+	+	+	+	+	+	+	+
83	Salmonella	Stourbridge	Ad2297	Raw cheese milk	42	18.89	19.01	66.35	65.84	+	+	+	+	+	+	+	+
84	Salmonella	Strasbourg	CIP 105632	Unknown	15	18.29	18.46	65.65	65.81	+	+	+	No growth	/	+	+	+
85	Salmonella	Tananarive	CIP 54142	Unknown	41	17.53	17.59	65.36	65.39	+	+	+	+	+	+	+	+
86	Salmonella	Tennessee	A00E006	Dusts from dairy industry	48	15.91	15.96	65.46	65.63	+	+	+	+	+	+	+	+
87	Salmonella	Thompson	AER301	Poultry	26	25.87	26.14	65.65	65.71	+	+	+	+	+	+	+	+
88	Salmonella	Typhi	Ad302	Clinical	41	22.67	22.74	66.21	65.81	+	+	+	+	+	+	+	+
89	Salmonella	Typhimurium	Ad1070	Pork meat	28	18.03	18.16	65.88	65.25	+	+	+	+	+	+	+	+
90	Salmonella	Typhimurium 1.4 [5], I2:-:-	Ad1333	Tiramisu	69	21.88	21.90	66.06	65.43	+	+	+	+	+	+	+	+
91	Salmonella	Typhimurium 1.4 [5], I2:-:1.2	Ad1335	Poultry environmental sample	40	20.88	20.93	66.10	65.63	+	+	+	+	+	+	+	+
92	Salmonella	Typhimurium 1.4 [5], II2:i:-	Ad1334	Ready to cook pork	70	24.98	25.12	66.31	65.84	+	+	+	+	+	+	+	+
93	Salmonella	Urbana	Ad2334	Shrimps	29	17.15	17.06	66.19	65.62	+	+	+	+	+	+	+	+
94	Salmonella	Veneziana	Adria 233	Food product	69	15.96	15.94	65.37	64.83	+	+	+	+	+	+	+	+
95	Salmonella	Virchow	Adria F276	Curry	38	16.29	16.24	66.07	65.41	+	+	+	+	+	+	+	+
96	Salmonella	Wandsworth	Ad2335	Fillet of mullet	26	21.98	22.23	65.58	65.51	+	+	+	+	+	+	+	+
97	Salmonella	Waycross	CIP105634	Unknown	37	18.05	18.10	65.98	65.35	+	+	+	+	+	+	+	+
98	Salmonella	Wayne	Ad502	Food product	36	28.97	29.75	65.73	61.43	+	No growth	/	+	+	No growth	+	+
99	Salmonella	Weltevreden	Ad2336	Treated water	57	16.50	16.55	66.01	65.50	+	+	+	+	+	+	+	+
100	Salmonella	Worthington	Adria 3506	Pâté	44	17.55	17.57	66.14	65.39	+	+	+	+	+	+	+	+

EXCLUSIVITY (initial validation study)							
N°	Strain	Reference	Origin	Inoculation level CFU/ml	PCR Result		
					CP	Tm	Result
1	<i>Citrobacter braakii</i>	Ad833	Raw beef meat	3.3 10 ⁵	0	0	-
2	<i>Citrobacter Diversus</i>	adria 140	Raw milk	3.6 10 ⁵	0	0	-
3	<i>Citrobacter freundii</i>	adria 23	Raw pork sausage	3.8 10 ⁵	0	0	-
4	<i>Citrobacter freundii</i>	adria 175	Raw duck meat	3.6 10 ⁵	0	0	-
5	<i>Citrobacter koseri</i>	adria 71	Frozen vegetables	3.7 10 ⁵	0	0	-
6	<i>Enterobacter agglomerans</i>	adria 11	Cheese	2.4 10 ⁵	0	0	-
7	<i>Enterobacter amnigenus</i>	A00C068	Raw poultry meat	2.1 10 ⁵	0	0	-
8	<i>Enterobacter cloacae</i>	adria 10	Raw milk	1.6 10 ⁵	0	0	-
9	<i>Enterobacter intermedius</i>	adria 60	Bean	1.1 10 ⁵	0	0	-
10	<i>Enterobacter kobei</i>	Ad 342	Ham	1.7 10 ⁵	0	0	-
11	<i>Enterobacter sakazakii</i>	adria 95	Fermented milk	3.6 10 ⁵	0	0	-
12	<i>Erwinia carotovora</i>	CIP 8283	Potatoes	3.4 10 ⁴	0	0	-
13	<i>Escherichia coli</i>	adria 19	Grated carrots	2.7 10 ⁵	0	0	-
14	<i>Escherichia hermannii</i>	Ad 461	Dessert	2.5 10 ⁵	0	0	-
15	<i>Escherichia vulneris</i>	adria 127	Raw milk	4.4 10 ⁵	0	0	-
16	<i>Hafnia alvei</i>	adria 167	Raw pork sausage	4.4 10 ⁵	0	0	-
17	<i>Klebsiella oxytoca</i>	57	Food product	2.4 10 ⁵	0	0	-
18	<i>Klebsiella pneumoniae</i>	47	Raw turkey meat	2.9 10 ⁵	0	0	-
19	<i>Kluyvera spp</i>	adria 41	Raw milk	3.1 10 ⁵	0	0	-
20	<i>Morganella morganii</i>	CIP A236	/	4.9 10 ⁵	0	0	-
21	<i>Pantoea agglomerans</i>	adria 62	Frozen vegetables	7.6 10 ⁴	0	0	-
22	<i>Proteus mirabilis</i>	Ad639	Mayonnaise	5.1 10 ⁵	0	0	-
23	<i>Proteus vulgaris</i>	adria 43	Sliced ham	7.2 10 ⁴	0	0	-
24	<i>Providencia rettgeri</i>	adria 112	White liquid egg	2.3 10 ⁵	0	0	-
25	<i>Rhanella aquatilis</i>	adria 69	Molluscs	7.2 10 ⁴	0	0	-
26	<i>Serratia liquefaciens</i>	26	Egg product	9.2 10 ⁴	0	0	-
27	<i>Serratia proteomaculans</i>	A00C056	Ham	3.8 10 ⁴	0	0	-
28	<i>Shigella flexneri</i>	CIP 8248	/	1.6 10 ⁵	0	0	-
29	<i>Shigella sonnei</i>	CIP 8249T (ATCC 29930)	/	1.9 10 ⁵	0	0	-
30	<i>Yersinia enterocolotica</i>	adria 32	Bacon	1.1 10 ⁵	0	0	-

Appendix 7 - Sensitivity study: raw data (Extension study No 6, 2018)

* : Lysate 1:3 ** : Enrichment 1:10 *** : Lysate 1:3 of 'enrichment 1:10 **** : Lysate 1:5 o =Lysate 1:10

READY-TO-EAT AND READY-TO-REHEAT - GENERAL PROTOCOL																		
Year of analyse	Sample N°	Product	Reference method: ISO 6579♦	Alternative method: GENE-UP® Salmonella													Category	Type
				BPW for 18h at 37°C														
				PCR initial validation						PCR extension								
				PCR result			Confirmation final result	Final result 18h	Agreement 18h	Multi dose kit			Unit dose kit			Agreement		
				Cp	Tm	Result				Cp	Tm	Result	Cp	Tm	Result	Multi Dose/ Unit Dose		
2016	6818	Citrus salad	+	22.15	66.44	+	+	+	PA	22.5	66.18	+	20.6	66.56	+	PA	1	a
2016	6819	Fruits salad	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	1	a
2016	6820	Sandwich ham/cheese	+	26	65.69	+	+	+	PA	25.8	65.94	+	25.07	66.47	+	PA	1	a
2016	6821	Sandwich ham/butter	+	24.11	66.48	+	+	+	PA	22.49	66.59	+	23.88	66.46	+	PA	1	a
2016	6912	Mayonnaise	+	27.87	66.17	+	+	+	PA	27.2	66.34	+	28.12	66.74	+	PA	1	a
2016	6913	Pastry	+	25.08	65.88	+	+	+	PA	25.59	66.17	+	25.04	66.46	+	PA	1	a
2016	6914	Terrine crab/lobster	+	21.95	66.77	+	+	+	PA	21.06	66.27	+	20.94	66.67	+	PA	1	a
2016	6915	Terrine crab/lobster	+	21.72	66.71	+	+	+	PA	21.94	66.38	+	20.2	66.62	+	PA	1	a
2016	6916	Ham	+	24.32	66.06	+	+	+	PA	24.16	66.31	+	22.72	66.52	+	PA	1	a
2016	6917	Pâté	+	30.5	66.1	+	+	+	PA	28.48	66.41	+	30.5	65.87	+	PA	1	a
2016	7121	Seafood terrine	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	1	a
2016	7122	Sandwich chicken/egg	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	1	a
2016	7123	Sandwich ham/cheese	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	1	a
2016	7124	Seasoned grated carrots	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	1	a
2016	7125	Seasoned celery	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	1	a
2016	7126	Seasoned cucumber	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	1	a
2016	7127	Ham	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	1	a
2016	7128	Mayonnaise	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	1	a
2016	7129	Fruits salad	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	1	a
2017	1042	Seafood terrine	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	1	a
2016	6918	Tuna quiche	+	22.46	66.58	+	+	+	PA	21.86	66.58	+	21.97	66.13	+	PA	1	b
2016	6919	Salmon/broccoli quiche	+	28.98	66.26	+	+	+	PA	29	66.44	+	29.03	66.76	+	PA	1	b
2016	6920	Ham/cheese Pizza	+	28.94	66.13	+	+	+	PA	28.51	66.38	+	29.12	66.35	+	PA	1	b
2016	6921	Leek pie	+	29.12	65.85	+	+	+	PA	28.72	66.2	+	28.2	66.42	+	PA	1	b
2016	6922	Ready to reheat food	+	22.72	65.79	+	+	+	PA	23.55	66.39	+	22.26	66.54	+	PA	1	b
2016	6923	Ready to reheat food	+	21.61	65.83	+	+	+	PA	21.65	66.32	+	21.18	66.66	+	PA	1	b
2016	6924	Ready to reheat food	+	25.56	65.8	+	+	+	PA	25.09	66.28	+	24.52	66.59	+	PA	1	b
2016	6925	Ready to reheat food	+	21.74	65.93	+	+	+	PA	21.73	66.35	+	20.65	66.67	+	PA	1	b
2016	6926	Ready to reheat food	+	33.9	66.01	+	+	+	PA	0	0	-	0	0	-	NA	1	b
2016	6927	Ready to reheat food	+	23.65	65.95	+	+	+	PA	24.48	66.41	+	23.32	66.67	+	PA	1	b
2016	6928	Ready to reheat food	+	27.6	65.43	+	+	+	PA	28.54	66.44	+	29.19	66.84	+	PA	1	b
2016	6929	Ready to reheat food	+	22.84	65.99	+	+	+	PA	21.55	66.26	+	21.11	66.26	+	PA	1	b
2016	7130	Croque monsieur	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	1	b

* Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

READY-TO-EAT AND READY-TO-REHEAT - GENERAL PROTOCOL																		
Year of analyse	Sample N°	Product	Reference method: ISO 6579♦	Alternative method: GENE-UP® Salmonella													Category	Type
				BPW for 18h at 37°C														
				PCR initial validation						PCR extension								
				PCR result			Confirmation final result	Final result 18h	Agreement 18h	Multi dose kit			Unit dose kit			Agreement		
				Cp	Tm	Result				Cp	Tm	Result	Cp	Tm	Result	Multi Dose/ Unit Dose		
2016	7131	Quiche	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	1	b
2016	7132	Ham/cheese Pizza	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	1	b
2016	7133	Lasagna	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	1	b
2016	7134	Ready to reheat food	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	1	b
2016	7135	Ready to reheat food	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	1	b
2016	7136	Ready to reheat food	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	1	b
2016	7137	Ready to reheat food	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	1	b
2016	7138	Ready to reheat food	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	1	b
2016	7139	Ready to reheat food	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	1	b
2016	6806	Cured mackerel fillet	+	22.25	66.2	+	+	+	PA	22.15	66.3	+	22.68	67.11	+	PA	1	c
2016	6807	Smoked herring	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	1	c
2016	6808	Smoked salmon	+	24.96	66.48	+	+	+	PA	25.1	66.28	+	24.46	66.92	+	PA	1	c
2016	6809	Smoked trout	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	1	c
2016	6810	Smoked duck	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	1	c
2016	6811	Smoked duck	+	24.92	66.13	+	+	+	PA	24.47	66.21	+	24.01	66.82	+	PA	1	c
2016	6812	Smoked duck	+	24.3	65.99	+	+	+	PA	23.44	66.11	+	23.29	66.61	+	PA	1	c
2016	6813	Smoked duck	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	1	c
2016	6814	Ready to eat poultry meat	+	22.76	66.11	+	+	+	PA	23.63	66.24	+	23.89	66.88	+	PA	1	c
2016	6815	Ready to eat poultry meat	+	22.57	66.45	+	+	+	PA	22.73	66.06	+	21.87	66.49	+	PA	1	c
2016	6816	Ready to eat poultry meat	+	25.43	65.93	+	+	+	PA	24.68	66.1	+	24.43	66.52	+	PA	1	c
2016	6817	Ready to eat poultry meat	+	22.52	65.88	+	+	+	PA	22.53	66.13	+	22.47	66.67	+	PA	1	c
2016	7198	Smoked trout	+	24.67	66.68	+	+	+	PA	24.42	66.32	+	26.26	66.77	+	PA	1	c
2016	7199	Smoked mackerel	+	22.71	66.42	+	+	+	PA	21.74	66.08	+	22.59	66.49	+	PA	1	c
2016	7214	Ready to eat food	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	1	c
2016	7215	Smoked trout	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	1	c
2016	7216	Smoked duck	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	1	c
2016	7217	Smoked duck	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	1	c
2016	7218	Smoked mackerel	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	1	c
2016	7219	Smoked herring	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	1	c

MEAT PRODUCTS (GENERAL PROTOCOL)

Year of analyse	Sample N°	Product	Reference method: ISO 6579*	Alternative method: GENE-UP® Salmonella													Category	Type
				BPW for 18h at 37°C														
				PCR initial validation						PCR extension								
				PCR result			Confirmation final result	Final result 18h	Agreement 18h	Multi dose kit			Unit dose kit			Agreement		
				Cp	Tm	Result				Cp	Tm	Result	Cp	Tm	Result	Multi Dose/ Unit Dose		
2016	6733	Pork kidneys	+	26.46	66.14	+	+	+	PA	27.12	66.47	+	28.74	66.58	+	PA	2	a
2016	6734	Pork meat	+	30.27	65.84	+	+	+	PA	30.03	66.12	+	31.01	66.29	+	PA	2	a
2016	6736	Ground veal meat	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	a
2016	6737	Pork meat	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	a
2016	6739	Pork meat	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	a
2016	6740	Pork meat	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	a
2016	6741	Pork meat	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	a
2016	6745	Pork meat	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	a
2016	6746	Pork meat	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	a
2016	6749	Pork meat	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	a
2016	6750	Pork meat	+	33.27	65.79	+	+	+	PA	34.29	67.12	+	34.23	66.31	+	PA	2	a
2016	6752	Pork meat	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	a
2017	1043	Ground beef	+	32.77	65.86	+	+	+	PA	33.1	66.23	+	33.25	65.9	+	PA	2	a
2017	1044	Pork meat	+	30.99	65.98	+	+	+	PA	30.21	66.28	+	31.44	66.35	+	PA	2	a
2017	1046	Ground beef	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	a
2017	1047	Pork meat	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	a
2017	1048	Ground beef	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	a
2017	1049	Mechanically separated pork meat	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	a
2017	1593	Pork meat	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	a
2017	1596	Veal meat	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	a
2017	1597	Lamb meat	+	27.92	65.79	+	+	+	PA	29	66.39	+	28.5	66.57	+	PA	2	a
2017	1598	Ground beef	+	26.99	66	+	+	+	PA	26.93	66.46	+	27.42	66.82	+	PA	2	a
2017	1599	Beef meat	+	34.14	66.14	+	+	+	PA	35.68	66.91	+	35.73	66.57	+	PA	2	a
2017	1600	Beef meat	+	32.96	66.07	+	+	+	PA	32.76	66.43	+	33.62	66.43	+	PA	2	a
2017	1601	Lamb meat	+	28.97	66.03	+	+	+	PA	28.31	66.29	+	29.24	66.45	+	PA	2	a
2017	1602	Lamb meat	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	a
2017	1616	Ground beef	+	32.55	65.91	+	+	+	PA	32.53	66.39	+	33.19	65.94	+	PA	2	a
2017	1617	Veal meat	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	a
2017	1622	Ground beef and pork	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	a
2017	1623	Pork meat	+	33.05	65.95	+	+	+	PA	33.19	66.39	+	33.35	66.11	+	PA	2	a
2017	1874	Pork meat	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	a
2017	1875	Pork meat	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	a
2017	1877	Ground beef	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	a
2016	6738	Poultry meat	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	b
2016	6742	Poultry meat	+	25.86	66.27	+	+	+	PA	26.75	66	+	26.06	66.39	+	PA	2	b
2016	6743	Poultry meat	+	29.23	65.82	+	+	+	PA	29.09	66.16	+	29.09	66.19	+	PA	2	b

* Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

MEAT PRODUCTS (GENERAL PROTOCOL)

Year of analyse	Sample N°	Product	Reference method: ISO 6579♦	Alternative method: GENE-UP® Salmonella													Category	Type
				BPW for 18h at 37°C														
				PCR initial validation						PCR extension								
				PCR result			Confirmation final result	Final result 18h	Agreement 18h	Multi dose kit			Unit dose kit			Agreement Multi Dose/ Unit Dose		
				Cp	Tm	Result				Cp	Tm	Result	Cp	Tm	Result			
2016	6744	Poultry meat	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	b
2016	6747	Poultry meat	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	b
2016	6748	Poultry meat	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	b
2016	6751	Poultry meat	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	b
2016	6753	Poultry meat	+	24.06	66.32	+	+	+	PA	25.99	66.49	+	24.43	66.52	+	PA	2	b
2016	6754	Poultry meat	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	b
2016	6755	Poultry meat	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	b
2017	1045	Coppa	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	b
2017	1050	Poultry meat	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	b
2017	1051	Mechanically separated poultry meat	+	30.72	65.69	+	+	+	PA	30.48	66.05	+	31.12	65.86	+	PA	2	b
2017	1052	Poultry meat	+	31.07	65.75	+	+	+	PA	31.17	66.24	+	31.62	66.21	+	PA	2	b
2017	1053	Poultry meat	+	33.73	65.71	+	+	+	PA	33.11	66.14	+	32.81	65.74	+	PA	2	b
2017	1054	Poultry meat	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	b
2017	1055	Poultry meat	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	b
2017	1056	Poultry meat	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	b
2017	1603	Poultry meat	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	b
2017	1604	Poultry meat	+	30.42	66.09	+	+	+	PA	28.74	66.42	+	28.13	66.36	+	PA	2	b
2017	1605	Poultry meat	+	32.96	65.91	+	+	+	PA	30.77	66.05	+	31.95	65.78	+	PA	2	b
2017	1606	Poultry meat	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	b
2017	1607	Poultry meat	+	34.82	65.92	+	+	+	PA	31.18	66.28	+	33.63	66.28	+	PA	2	b
2017	1608	Poultry meat	+	34.64	65.87	+	+	+	PA	31.64	66.28	+	33.13	66.09	+	PA	2	b
2017	1618	Poultry meat	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	b
2017	1619	Poultry meat	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	b
2017	1620	Poultry meat	+	32.66	66.01	+	+	+	PA	30.63	66.37	+	31.53	66.34	+	PA	2	b
2017	1621	Poultry meat	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	b
2017	1876	Poultry meat	+	33.17	66.27	+	+	+	PA	32.51	66.43	+	33.13	65.94	+	PA	2	b
2017	1878	Mechanically separated poultry meat	+	34.53	66.54	+	+	+	PA	30.99	66.44	+	30.96	65.82	+	PA	2	b
2016	6735	Sausage	+	32.75	66.05	+	+	+	PA	32.91	66.41	+	34.08	66.64	+	PA	2	c
2017	1579	Chorizo	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	c
2017	1580	Chorizo Chipolata	+	33.68	65.68	+	+	+	PA	33.22	66.25	+	32.9	65.7	+	PA	2	c
2017	1581	Chipolata	+	28.76	65.74	+	+	+	PA	29.45	66.18	+	28.52	66.32	+	PA	2	c
2017	1582	Chorizo	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	c
2017	1583	Chipolata	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	c
2017	1584	Chipolata	+	0/0/0	0/0/0	-/-/-	-	-	ND	0	0	-	0	0	-	NA	2	c
2017	1585	Sausage stuffing	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	c
2017	1586	Chipolata	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	c
2017	1587	Chorizo	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	c
2017	1588	Sausage	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	c

MEAT PRODUCTS (GENERAL PROTOCOL)																		
Year of analyse	Sample N°	Product	Reference method: ISO 6579*	Alternative method: GENE-UP® Salmonella													Category	Type
				BPW for 18h at 37°C														
				PCR initial validation						PCR extension								
				PCR result			Confirmation final result	Final result 18h	Agreement 18h	Multi dose kit			Unit dose kit			Agreement		
				Cp	Tm	Result				Cp	Tm	Result	Cp	Tm	Result	Multi Dose/ Unit Dose		
2017	1589	Sausage stuffing	+	32.62	65.85	+	+	+	PA	32.69	66.25	+	33.3	66	+	PA	2	c
2017	1590	Sausage	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	c
2017	1591	Chipolata	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	c
2017	1592	Sausage stuffing	+	31.04	65.99	+	+	+	PA	30.59	66.36	+	0/30.59/32.43*	0/66.19/66.42*	i/+/*	PA	2	c
2017	1609	Salami	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	c
2017	1610	Smoked salami	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	c
2017	1611	Chipolata	+	34.44	66.21	+	+	+	PA	33.02	66.55	+	34.65	66.23	+	PA	2	c
2017	1612	Sausage of Montbéliard	+	24.22	66.17	+	+	+	PA	24.95	66.4	+	25.79	66.31	+	PA	2	c
2017	1613	Bacon	+	24	65.83	+	+	+	PA	23.44	66.31	+	22.85	66.32	+	PA	2	c
2017	1614	Smoked bacon	+	24.2	65.91	+	+	+	PA	24.44	66.49	+	23.92	66.01	+	PA	2	c
2017	1615	Sausage	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	2	c

DAIRY PRODUCTS (GENERAL PROTOCOL)

Year of analyse	Sample N°	Product	Reference method: ISO 6579♦	Alternative method: GENE-UP® Salmonella													Category	Type
				BPW for 18h at 37°C														
				PCR initial validation						PCR extension								
				PCR result			Confirmation final result	Final result 18h	Agreement 18h	Multi dose kit			Unit dose kit			Agreement Multi Dose/ Unit Dose		
				Cp	Tm	Result				Cp	Tm	Result	Cp	Tm	Result			
2016	5615	Pasteurized milk cheese	+	28.14	56.51	+	+	+	PA	27.61	56.82	+	28.87	56.53	+	PA	3	a
2016	5616	Pasteurized milk cheese	+	28.88	56.53	+	+	+	PA	28.64	56.84	+	28.79	56.29	+	PA	3	a
2016	5617	Pasteurized milk cheese	+	34.88	56.3	+	+	+	PA	33.8	56.49	+	34.52	56.03	+	PA	3	a
2016	5618	Pasteurized milk cheese	+	33	65.73	+	+	+	PA	32.21	65.92	+	33.58	65.35	+	PA	3	a
2016	5619	Pasteurized milk cheese	+	25.56	66.59	+	+	+	PA	25.6	66.11	+	24.17	65.87	+	PA	3	a
2016	6903	Ice cream	+	24.97	65.9	+	+	+	PA	24.26	66.12	+	24.2	66.61	+	PA	3	a
2016	6904	Ice cream	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	3	a
2016	6905	Ice cream	+	24.42	65.79	+	+	+	PA	24.07	66.34	+	23.59	66.58	+	PA	3	a
2016	6906	Ice cream	+	25.5	66.07	+	+	+	PA	25.7	66.41	+	25.63	66.57	+	PA	3	a
2016	7208	Pasteurized milk	+	25.01	66.61	+	+	+	PA	24.62	66.12	+	23.95	65.68	+	PA	3	a
2016	7209	Tiramisu	+	29.82	66.1	+	+	+	PA	28.87	66.05	+	29.86	65.8	+	PA	3	a
2016	7210	Panna cotta	+	21.61	66.55	+	+	+	PA	20.72	66.14	+	20.46	66.26	+	PA	3	a
2016	7220	Pasteurized milk	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	3	a
2016	7221	Pasteurized milk cheese	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	3	a
2016	7222	Pasteurized milk cheese	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	3	a
2016	7223	Pasteurized milk	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	3	a
2016	7224	Tiramisu	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	3	a
2016	7225	Panna cotta	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	3	a
2017	210	Dairy dessert	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	3	a
2017	211	Pasteurized camembert	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	3	a
2016	2135	Raw cream	+	0/0/34.18	0/0/66.26	-/-/+	+	-	ND	0	0	-	0	0	-	NA	3	b
2016	2136	Raw cream	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	3	b
2016	2137	Raw cream	+	33.94	67.34	+	+	+	PA	33.16	66.76	+	34.82	66.46	+	PA	3	b
2016	2138	Raw cream	+	0/0/35.21	0/0/67.46	-/-/+	+	-	ND	0	0	-	35.79	66.3	+	PD	3	b
2016	2139	Raw milk	+	31.23	67.23	+	+	+	PA	30.84	66.33	+	32.75	66.1	+	PA	3	b
2016	2140	Raw milk	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	3	b
2016	2141	Raw cow milk cheese	+	34.49	67.18	+	+	+	PA	33.94	66.36	+	32.32	65.94	+	PA	3	b
2016	2142	Raw cow milk cheese	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	3	b
2016	2143	Raw cow milk cheese	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	3	b
2016	2144	Raw goat milk cheese	+	38.14	67.43	+	+	+	PA	32.91	66.4	+	35.49	65.99	+	PA	3	b
2016	2145	Raw milk	+	32.78	67.52	+	+ (ISO and 72h)	+	PA	31.23	66.55	+	33.8	66.36	+	PA	3	b
2016	2146	Raw milk	+	29.44	67.38	+	+ (ISO and 72h)	+	PA	28.83	66.08	+	30.9	66.14	+	PA	3	b
2016	2147	Raw cow milk cheese	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	3	b
2016	2148	Raw ewe milk cheese	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	3	b
2016	2149	Raw goat milk cheese	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	3	b

* Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

DAIRY PRODUCTS (GENERAL PROTOCOL)

Year of analyse	Sample N°	Product	Reference method: ISO 6579♦	Alternative method: GENE-UP® Salmonella													Category	Type
				BPW for 18h at 37°C														
				PCR initial validation						PCR extension								
				PCR result			Confirmation final result	Final result 18h	Agreement 18h	Multi dose kit			Unit dose kit			Agreement Multi Dose/ Unit Dose		
				Cp	Tm	Result				Cp	Tm	Result	Cp	Tm	Result			
2016	2150	Raw cow milk cheese	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	3	b
2016	2394	Raw cow milk cheese	+	21.65	67.46	+	+	+	PA	23.51	66.44	+	24.94	66.39	+	PA	3	b
2016	2395	Raw goat milk cheese	+	27.94	67	+	+	+	PA	29.93	66.34	+	30.18	65.96	+	PA	3	b
2016	2396	Raw cow milk cheese	+	22.27	67.68	+	+	+	PA	24.27	66.44	+	24.3	66.21	+	PA	3	b
2016	2397	Raw cow milk cheese	+	29.7	67.23	+	+	+	PA	30.73	66.39	+	31.18	66.06	+	PA	3	b
2016	2398	Raw cow milk cheese	+	30.12	67.66	+	+	+	PA	25.04	66.45	+	25.11	66.1	+/	PA	3	b
2016	2399	Raw ewe milk cheese	-	0	0	-	-	-	NA	0	0	-	0/0/0	62.21/0/0	+/-/-	PD	3	b
2016	2400	Raw goat milk cheese	+	29.5	67.02	+	+	+	PA	30.17	66.11	+	31.84	65.85	+	PA	3	b
2016	2401	Raw cow milk cheese	+	31.19	67.37	+	+	+	PA	32.22	66.24	+	32.99	66.13	+	PA	3	b
2016	2402	Raw milk	+	32.44	67.22	+	+	+	PA	32.22	66.85	+	34.67	66.25	+	PA	3	b
2016	2403	Raw milk	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	3	b
2016	2083	Caseinate	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	3	c
2016	2084	Milk powder	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	3	c
2016	4261	Caseinate	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	3	c
2016	4262	Caseinate	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	3	c
2016	4263	Maltodextrin	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	3	c
2016	4264	Skimmed milk powder	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	3	c
2016	4687	Milk proteins	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	3	c
2016	4688	Lactoserum	+	33.08	65.53	+	+	+	PA	32.46	65.77	+	33.12	65.08	+	PA	3	c
2016	4689	Skimmed milk powder	+	27.02	65.77	+	+	+	PA	26.25	66.09	+	25.63	65.89	+	PA	3	c
2016	4690	Skimmed milk powder	+	30.84	65.63	+	+	+	PA	29.16	65.81	+	29.64	65.67	+	PA	3	c
2016	4691	Skimmed milk powder	+	30.58	65.73	+	+	+	PA	29.16	65.76	+	29.7	65.48	+	PA	3	c
2016	4692	Skimmed milk powder	+	34.48	65.79	+	+	+	PA	34.56	66.37	+	34.63	65.71	+	PA	3	c
2016	4693	Skimmed milk powder	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	3	c
2016	4987	Maltodextrin	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	3	c
2016	4988	Milk proteins	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	3	c
2016	4989	Caseinate	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	3	c
2016	4990	Lactoserum	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	3	c
2016	5216	Skimmed milk powder	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	3	c
2016	5217	Semi-skimmed milk powder	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	3	c
2016	5218	Skimmed milk powder	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	3	c
2016	5219	Milk powder	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	3	c
2016	5220	Semi-skimmed milk powder	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	3	c
2016	6891	Milk powder	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	3	c
2016	6892	Milk powder	+	30.42	65.64	+	+	+	PA	30.5	66.25	+	29.29	65.88	+	PA	3	c
2016	6893	Milk powder	+	27.28	65.95	+	+	+	PA	25.26	66.39	+	32.32	65.64	+	PA	3	c
2016	6894	Milk powder	+	32.05	65.71	+	+	+	PA	31.51	66.29	+	32.27	65.93	+	PA	3	c
2016	6895	Milk powder	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	3	c
2016	6896	Milk powder	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	3	c

DAIRY PRODUCTS (GENERAL PROTOCOL)																		
Year of analyse	Sample N°	Product	Reference method: ISO 6579♦	Alternative method: GENE-UP® Salmonella													Category	Type
				BPW for 18h at 37°C														
				PCR initial validation						PCR extension								
				PCR result			Confirmation final result	Final result 18h	Agreement 18h	Multi dose kit			Unit dose kit			Agreement		
				Cp	Tm	Result				Cp	Tm	Result	Cp	Tm	Result	Multi Dose/ Unit Dose		
2016	6897	Lactoserum	+	31.86	65.73	+	+	+	PA	30.95	66.26	+	31.79	65.87	+	PA	3	c
2016	6898	Lactoserum	+	27.58	66.08	+	+	+	PA	29.06	66.52	+	29.55	66.45	+	PA	3	c
2016	6899	Maltodextrin	+	22.43	66.02	+	+	+	PA	22.45	66.18	+	22.48	66.61	+	PA	3	c
2016	6900	Lactoserum	+	23.99	66.03	+	+	+	PA	24.53	65.96	+	23.72	65.9	+	PA	3	c
2016	6901	Lactoprotein	+	23.89	66.25	+	+	+	PA	24.25	66.01	+	23.79	66.54	+	PA	3	c
2016	6902	Caseinate	+	23.19	66.02	+	+	+	PA	22.46	64.64	+	21	63.28	+	PA	3	c
2016	7056	Milk powder	+	28.98	65.55	+	+	+	PA	30.08	66.14	+	30.65	66.09	+	PA	3	c
2016	7057	Milk powder	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	3	c
2016	7058	Maltodextrin	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	3	c
2016	7059	Caseinate	+	23.54	66.01	+	+	+	PA	23.63	66.49	+	22.86	65.81	+	PA	3	c
2016	7060	Lactose	+	25.49	65.82	+	+	+	PA	27.07	66.23	+	25.67	66.43	+	PA	3	c
2016	7061	Lactoserum	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	3	c
2016	7062	Caseine	+	23.77	65.89	+	+	+	PA	24.48	65.75	+	24.25	65.87	+	PA	3	c
2016	7211	Milk powder	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	3	c
2016	7212	Milk powder	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	3	c
2016	7213	Milk powder	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	3	c
2016	8075	Milk powder	+	31.87	65.27	+	+	+	PA	31.23	65.92	+	31.71	65.19	+	PA	3	c
2016	8076	Milk powder	+	23.78	65.94	+	+	+	PA	23.67	66.6	+	23.97	65.93	+	PA	3	c

VEGETABLES AND SEAFOOD SAMPLES (GENERAL PROTOCOL)																		
Year of analyse	Sample N°	Product	Reference method: ISO 6579*	Alternative method: GENE-UP® Salmonella													Category	Type
				BPW for 18h at 37°C														
				PCR initial validation						PCR extension								
				PCR result			Confirmation final result	Final result 18h	Agreement 18h	Multi dose kit			Unit dose kit			Agreement Multi Dose/ Unit Dose		
Cp	Tm	Result	Cp	Tm	Result	Cp				Tm	Result							
2016	1925	Seafood	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	4	a
2016	1935	Salmon terrine	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	4	a
2016	2068	Frozen fish fillet	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	4	a
2016	2069	Frozen fish fillet	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	4	a
2016	2070	Frozen fish fillet	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	4	a
2016	2071	Surimi	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	4	a
2016	2072	Surimi	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	4	a
2016	2073	Shrimp	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	4	a
2016	2074	Shrimp	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	4	a
2016	2075	Seafood	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	4	a
2016	2076	Seafood terrine	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	4	a
2016	2320	Shrimp	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	4	a
2016	2970	Seafood terrine	+	23.29	67.59	+	+	+	PA	21.93	66.22	+	21.81	66.24	+	PA	4	a
2016	2971	Seafood terrine	+	22.91	67.41	+	+	+	PA	21.83	66.13	+	21.65	66.04	+	PA	4	a
2016	2972	Flaked crab	+	23.27	67.41	+	+	+	PA	21.65	66.11	+	21.41	66.22	+	PA	4	a
2016	2973	Flaked crab	+	23.51	67.38	+	+	+	PA	22.76	66.13	+	22.91	66.14	+	PA	4	a
2016	2974	Fish fillet	+	32.53	67.26	+	+	+	PA	31.3	65.91	+	31.46	65.49	+	PA	4	a
2016	2975	Fish fillet	+	28.71	67.26	+	+	+	PA	27.72	65.94	+	27.55	65.91	+	PA	4	a
2016	2976	Surimi	+	23.08	67.23	+	+	+	PA	22.97	66.06	+	21.74	66.05	+	PA	4	a
2016	4239	Fish fillet	+	29.25	65.8	+	+	+	PA	26.7	66.12	+	30.73	65.28	+	PA	4	a
2016	4240	Fish fillet	+	29.74	65.9	+	+	+	PA	27.98	66.11	+	27.68	65.14	+	PA	4	a
2016	4241	Fish fillet	+	32.11	65.96	+	+	+	PA	24.48	66.23	+	23.97	65.41	+	PA	4	a
2016	4242	Fish fillet	-	0	0	-	-	-	NA	26.53/0/0	66.25/0/0	+/-/-	34.22/34.62/35.97	64.37/65.71/64.91	+/+/+	PA	4	a
2016	4243	Fish fillet	+	27.69	65.98	+	+	+	PA	24.87	66.07	+	31.13	64.49	+	PA	4	a
2016	1917	Sucrine	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	4	b
2016	1919	Mâche	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	4	b
2016	1921	Cress	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	4	b
2016	1922	Baby leaves	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	4	b
2016	2060	Sucrine	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	4	b
2016	2066	Baby leaves	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	4	b
2016	2067	Baby leaves	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	4	b
2016	2339	Baby leaves	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	4	b
2016	2981	Baby leaves	+	32.4	67.39	+	+	+	PA	30.68	66.23	+	31.45	65.45	+	PA	4	b
2016	2982	Baby leaves	+	28.61	67.31	+	+	+	PA	26.4	66.31	+	27.61	65.92	+	PA	4	b
2016	2983	Baby leaves	+	30.75	67.31	+	+	+	PA	28.61	66.31	+	29.67	65.85	+	PA	4	b
2016	2984	Baby leaves	+	28.06	67.02	+	+	+	PA	27.59	66.22	+	27.92	65.96	+	PA	4	b
2016	2985	Baby leaves	+	29.63	67.26	+	+	+	PA	27.94	66.46	+	28.73	66.14	+	PA	4	b
2016	2989	Mixed salad	+	29.63	67.36	+	+	+	PA	27.91	66.1	+	28.7	66.11	+	PA	4	b
2016	2990	Mixed salad	+	26.87	67.32	+	+	+	PA	25.14	66.11	+	25.4	66.08	+	PA	4	b
2016	2991	Sucrine	+	25.96	67.28	+	+	+	PA	24.41	66.17	+	25.12	66.29	+	PA	4	b
2016	4244	Baby leaves	-	0	0	-	-	-	NA	36/0/0	66.39/0/0	+/-/-	0	0	-	ND	4	b
2016	4245	Baby leaves	-	0	0	-	-	-	NA	0	0	-	0/0*	0/0*	i/-*	NA	4	b
2017	1495	Dill	+	24.86	66.08	+	+	+	PA	25.65	66.36	+	24.61	66.49	+	PA	4	b

* Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

VEGETABLES AND SEAFOOD SAMPLES (GENERAL PROTOCOL)																		
Year of analyse	Sample N°	Product	Reference method: ISO 6579*	Alternative method: GENE-UP® Salmonella													Category	Type
				BPW for 18h at 37°C														
				PCR initial validation						PCR extension								
				PCR result			Confirmation final result	Final result 18h	Agreement 18h	Multi dose kit			Unit dose kit			Agreement Multi Dose/ Unit Dose		
Cp	Tm	Result	Cp	Tm	Result	Cp				Tm	Result							
2017	1496	Chive	+	35.43	65.93	+	+	+	PA	35.92	66.3	+	34.57	65.8	+	PA	4	b
2017	1497	curly lettuce	+	24.23	66.04	+	+	+	PA	23.29	66.29	+	23.57	66.18	+	PA	4	b
2017	1498	Lettuce	+	23.8	65.98	+	+	+	PA	22.89	65.43	+	23.95	66.32	+	PA	4	b
2016	2061	Grated carrots	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	4	c
2016	2064	Frozen fruit mix	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	4	c
2016	2065	Frozen strawberry	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	4	c
2016	2085	Frozen carrots	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	4	c
2016	2086	Frozen mixed vegetables	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	4	c
2016	2344	Grated carrots	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	4	c
2016	2986	White cabbage/ carrot/celery	+	31.8	67.59	+	+	+	PA	30.31	66.28	+	30.59	66.34	+	PA	4	c
2016	2987	Red cabbage	+	23.94	67.29	+	+	+	PA	23.14	66.09	+	23.65	66.28	+	PA	4	c
2016	2988	Grated carrots	+	34.93	67.48	+	+	+	PA	34.34	66.42	+	34.53	66.01	+	PA	4	c
2016	2992	White cabbage/ carrot/ salad/red bell pepper	+	29.95	67.04	+	+	+	PA	28.74	65.99	+	29.69	66.25	+	PA	4	c
2016	2993	Pre-cooked carrots	+	21.98	67.33	+	+	+	PA	20.87	66.82	+	21.82	66.68	+	PA	4	c
2016	2994	Pre-cooked potatoes	+	22.71	67.93	+	+	+	PA	21.08	66.59	+	20.67	66.2	+	PA	4	c
2016	2995	Chinese cabbage/ salad/ tomato / corn/zucchini/ radish/parsley	+	32.95	67.16	+	+	+	PA	32.43	66.12	+	31.87	65.27	+	PA	4	c
2017	1499	Mix apple/grapes	+	30.69	65.93	+	+	+	PA	30.1	65.99	+	30.23	66.39	+	PA	4	c
2017	1500	Pineapple pieces	+	24.21	66.05	+	+	+	PA	22.71	66.03	+	23.48	66.43	+	PA	4	c
2017	1501	Mango pieces	+	20.51	65.93	+	+	+	PA	20.6	66.08	+	20.07	66.47	+	PA	4	c
2017	1502	Carrots	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	4	c
2017	1503	Grated carrots	+	31.58	66.02	+	+	+	PA	30.86	66.1	+	31.87	66.25	+	PA	4	c
2017	1594	Sliced zucchini	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	4	c
2017	1595	Frozen spinach	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	4	c

INGREDIENTS AND SPECIFIC FOODS (GENERAL PROTOCOL)																		
Year of analyse	Sample N°	Product	Reference method: ISO 6579*	Alternative method: GENE-UP® Salmonella													Category	Type
				BPW for 18h at 37°C														
				PCR initial validation						PCR extension								
				PCR result			Confirmation final result	Final result 18h	Agreement 18h	Multi dose kit			Unit dose kit			Agreement Multi Dose/ Unit Dose		
Cp	Tm	Result	Cp	Tm	Result	Cp				Tm	Result							
2016	3071	Dried basil	-	0/0/0/0	0/0/0/0	i/i*/i**/-***	-	-	NA	0/0*/0**	0/0*/0**	i/i*/-**	0/0*/0**	0/0*/0**	i/i*/-**	NA	5	a
2016	3072	Dried herbs	-	0/0/0/0	0/0/0/0	i/i*/i**/-***	-	-	NA	0/0*/0**	0/0*/0**	i/i*/-**	0/0*/0**	0/0*/0**	i/i*/-**	NA	5	a
2016	3073	Paprika	+	0	0	-	-	-	ND	0	0	-	0	0	-	NA	5	a
2016	3074	Turmeric	+	8.97/0/0	49.04/65.95/0	+/-+/-	- (MSRV -)	-	PA _{FP(alt)}	0	0	-	0	0	-	NA	5	a
2016	3075	Curry	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	5	a
2016	3076	Dried thyme	+	0/0/38	0/0/66.01	i/i*/+**	+	+	PA	0/0*/29.92**	0/0*/66.5**	i/i*/+**	0/0*/33.3**	0/0*/66.36**	i/i*/+**	PA	5	a
2016	4265	Cocoa powder	-	0/0/0	0/0/0	i/i*/-**	-	-	NA	0/0*/0**	0/0*/0**	i/i*/-**	0/0*/0**	0/0*/0**	i/i*/-**	NA	5	a
2016	4266	Cocoa powder	-	0/0/0	0/0/0	i/i*/-**	-	-	NA	0/0*/0**	0/0*/0**	i/i*/-**	0/0*/0**	0/0*/0**	i/i*/-**	NA	5	a
2016	4267	Cocoa powder	+	0/0/0	0/0/0	i/i*/-**	-	-	ND	0/0*/0**	0/0*/0**	i/i*/-**	0/0*/0**	0/0*/0**	i/i*/-**	NA	5	a
2016	4268	Milk chocolate tablet	-	27.04	65.89	+	+	+	PD	27.06	66.25	+	28.16	65.92	+	PA	5	a
2016	4269	Dark chocolate tablet	-	0	0	-	-	-	NA	0	0	-	0/0*	0/0*	i/-*	NA	5	a
2016	4270	Cocoa bean	+	0	0	-	-	-	ND	0/0*/0****	0/0*/0****	i/i*/-****	0/0*/0****/0°	0/0*/0****/0°	i/i*/i****/-°	NA	5	a
2016	4694	Cocoa powder	-	(0/34.04/34.01)**	(0/66.08/66)**	i/i*/(-/+/-)**	+	-	NA	0/0*/35.01**	0/0*/66.49**	i/-*/+**	0/0*/35.59**	0/0*/66.19**	i/-*/+**	PA	5	a
2016	4695	Cocoa powder	-	(32.99/36.12/0)**	(64.03/66.76/0)**	i/i*/(+/-/-)**	- (MSRV -)	-	PD _{FP(alt)}	0/0*/35.82**	0/0*/66.89**	i/i*/+**	0/0*/0**	0/0*/0**	i/i*/-**	ND	5	a
2016	4696	Tarragon	-	0/35.24*/0**	0/65.66*/0**	i/+*/i**	+	+	PD	0/0*/30.94**	0/0*/66.08**	i/i*/+**	0/0*/33.9**	0/0*/65.99**	i/i*/+**	PA	5	a
2016	4697	Oregano	-	0/0*/0**/0***	0/0*/0**/0***	i/i*/i**/-***	-	-	NA	0/36.56*/0**	0/61.95*/0**	i/+*/-**	0/0*/0**/0***	0/0*/0**/0***	i/i*/i**/-***	ND	5	a
2016	4698	Salsa spices	-	34.76/0/0	65.94/0/58.35	+/i/+	- (MSRV -)	-	PD _{FP(alt)}	32.4	67.03	+	40	66.01	+	PA	5	a
2016	4699	Chinese spices	-	0	0	-	-	-	NA	0	0	-	0/0	0/0	i/-	NA	5	a
2016	4984	Black chocolate tablets	-	24.37	65.82	+	+	+	PD	23.7	66.04	+	0/0/22.93	0/0/66.72	i/i/+*	PA	5	a
2016	4985	Black chocolate tablets	-	38.06	65.19	+	+	+	PD	37.32	60.44	+	0/0/26.41	0/0/66.14	i/i/+*	PA	5	a
2016	4986	Black chocolate tablets	+	34.76	65.51	+	+	+	PA	33.48	66.08	+	0/0/34.76	0/0/66.02	i/i/+*	PA	5	a
2016	5620	Tarragon	-	0/(0*)x3/(0**)x3	0/(0*)x3/(0**)x3	i/(-*)x3/(-**)x3	+	-	NA	0/0*/0**	0/0*/0**	i/-*/-**	0/0*/0**	0/0*/0**	i/i*/-**	NA	5	a
2016	5621	Cocoa powder	-	0/8.03*/0	0/0*/0**	i/i*/-**	-	-	NA	0/0*/0**	0/0*/0**	i/-*/-**	0/0*/0**	0/0*/0**	i/i*/-**	NA	5	a
2016	4381	Cereals with probiotics	+	22.18	66.31	+	+	+	PA	21.06	66.36	+	21.12	65.27	+	PA	5	b
2016	4382	Cereals with probiotics	+	22.39	66.38	+	+	+	PA	20.75	66.35	+	22.09	65.91	+	PA	5	b
2016	4383	Cereals with probiotics	+	21.96	66.09	+	+	+	PA	21.73	66.34	+	22.86	65.89	+	PA	5	b
2016	4384	Cereals with probiotics	-	0/0/0	65.94/0/0	+/-/-	- (MSRV -)	-	PD _{FP(alt)}	0	65.91	+	35.1	65.27	+	PA	5	b
2016	4385	Infant cereals with probiotics	-	0	0	-	-	-	NA	0	66.71	+	36.18	65.79	+	PA	5	b
2016	4386	Cereals with probiotics	+	30.71	65.9	+	+	+	PA	29.04	66.04	+	30.44	66.21	+	PA	5	b
2016	4387	Cereals with probiotics	+	32.26	65.75	+	+	+	PA	0	63.54	+	33.04	65.36	+	PA	5	b
2016	4388	Infant formula with probiotics	-	0	0	-	-	-	NA	0/0*/0****	0/0*/0****	i/i*/-****	0	0	-	NA	5	b
2016	4389	Infant formula with probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	5	b
2016	4390	Infant formula with probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	5	b
2016	4391	Infant formula with probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	5	b
2016	4392	Infant formula with probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	5	b
2016	4393	Infant formula with probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	5	b
2016	4394	Infant formula with probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	5	b
2016	5622	Infant formula with probiotics	+	24.93	66.08	+	+	+	PA	24.48	66.41	+	25.43	65.89	+	PA	5	b
2016	5623	Infant formula with probiotics	+	21.69	66.45	+	+	+	PA	21.25	66.51	+	23.85	66.33	+	PA	5	b
2016	5624	Infant formula with probiotics	-	32.43	65.81	+	+	+	PD	32.18	66.07	+	34.08	65.39	+	PA	5	b
2016	5625	Infant formula with probiotics	+	31.23	66.01	+	+	+	PA	31.29	66.25	+	32.4	65.44	+	PA	5	b
2016	5626	Infant formula with probiotics	+	0	66.29	+	+	+	PA	0	66.78	+	35.49	65.69	+	PA	5	b
2016	5627	Infant formula with probiotics	+	20.9	66.45	+	+	+	PA	20.97	66.13	+	20.49	66.01	+	PA	5	b
2016	5628	Infant formula with probiotics	+	0	0	-	-	-	ND	0	0	-	0	0	-	NA	5	b

* Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

INGREDIENTS AND SPECIFIC FOODS (GENERAL PROTOCOL)																		
Year of analyse	Sample N°	Product	Reference method: ISO 6579*	Alternative method: GENE-UP® Salmonella													Category	Type
				BPW for 18h at 37°C														
				PCR initial validation						PCR extension								
				PCR result			Confirmation final result	Final result 18h	Agreement 18h	Multi dose kit			Unit dose kit			Agreement Multi Dose/ Unit Dose		
				Cp	Tm	Result				Cp	Tm	Result	Cp	Tm	Result			
2016	4395	Whole egg powder	+	23.76	66.42	+	+	+	PA	24.33	65.95	+	23.39	65.39	+	PA	5	c
2016	4396	White egg powder	+	25.41	66.35	+	+	+	PA	24.93	66.14	+	25.73	64.24	+	PA	5	c
2016	4397	White egg powder	+	23.11	66.35	+	+	+	PA	23.44	66.22	+	23.03	65.96	+	PA	5	c
2016	4398	Whole egg powder	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	5	c
2016	4399	Whole egg powder	-	0/32.63*	0/66.19*	-/+*	-	-	PD _{FP(alt)}	0	0	-	0	0	-	NA	5	c
2016	4400	Whole egg powder	+	24.97	66.26	+	+	+	PA	23.8	65.95	+	24.16	65.69	+	PA	5	c
2016	4401	Whole egg powder	+	24.32	66.18	+	+	+	PA	21.14	65.37	+	22.71	65.61	+	PA	5	c
2016	4730	Pasteurized egg yolk	-	0	0	-	-	-	NA	0/0	0/0	i/-*	0	0	-	NA	5	c
2016	4731	Pasteurized egg yolk	+	29.76	65.87	+	+	+	PA	20.68	66.35	+	0	62.4	+	PA	5	c
2016	4732	Pasteurized whole egg	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	5	c
2016	4733	Pasteurized whole egg	+	25.18	66.01	+	+	+	PA	21.94	66.25	+	21.55	66.71	+	PA	5	c
2016	4734	Pasteurized egg white	+	22.75	66.5	+	+	+	PA	0/0/0	0/0/0	-/-/-	0/0/0	0/0/0	-/-/-	NA	5	c
2016	5212	Whole egg powder	-	34.61/36.73/0	65.69/66.51/0	+/+/-	- (MSRV -)	-	PD _{FP(alt)}	0	0	-	0	0	-	NA	5	c
2016	5213	Whole egg powder	-	0	0	-	-	-	NA	0/0	0/0	i/-*	0	0	-	NA	5	c
2016	5214	Egg yolk powder	-	0	0	-	-	-	NA	0	0	-	0/0/0*	0/0/0*	i/-/-*	NA	5	c
2016	5215	White egg powder	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	5	c
2016	5221	Pasteurized egg yolk	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	5	c
2016	5222	Pasteurized whole egg	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	5	c
2016	5223	Pasteurized whole egg	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	5	c
2016	5629	Sweet egg yolk pasteurized egg (50%)	+	30.42	66.14	+	+	+	PA	22.86	66.35	+	21.18	65.97	+	PA	5	c
2016	5630	Salted egg yolk pasteurized (10%)	+	30.72	65.78	+	+	+	PA	22.91	66.23	+	23.05	66.26	+	PA	5	c
2016	5631	Sweet egg yolk pasteurized egg (50%)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	5	c
2016	5632	Salted egg yolk pasteurized (10%)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	5	c
2017	1992	Pasteurized whole liquid egg	+	21.52	66.06	+	+	+	PA	21.77	66.34	+	21.45	66.47	+	PA	5	c

INGREDIENTS AND SPECIFIC PRODUCTS (ISO PROTOCOL)																		
Year of analyse	Sample N°	Product	Reference method : ISO 6579*	Alternative method: GENE-UP Salmonella													Category	Type
				BPW for 18h at 37°C														
				PCR initial validation						PCR extension								
				PCR result			Confirmation final result	Final result 20h	Agreement 20h	Multi dose kit			Unit dose kit			Agreement Multi Dose/Unit Dose		
				Cp	Tm	Result				Cp	Tm	Result	Cp	Tm	Result			
2016	3071	Dried basil	-	0/0*/0**	0/0*/0**	i/i*/-**	-	-	NA	0/0*/0**	0/0*/0**	i/i*/-**	0/0*/0**/0***	0/0*/0**/0***	i/i*/i**/-***	NA	5	a
2016	3072	Dried herbs	-	0/0*/0**	0/0*/0**	i/i*/-**	-	-	NA	0/0*/0**	0/0*/0**	i/i*/-**	0/0*/0**/0***	0/0*/0**/0***	i/i*/i**/-***	NA	5	a
2016	3073	Paprika	+	37.48	59.9	+	+	+	PA	33.48	65.87	+	0/32.4*	0/65.46*	i/+*	PA	5	a
2016	3074	Turmeric	+	34.48	65.42	+	+	+	PA	33.91	65.89	+	0/34.18*	0/66.26*	i/+*	PA	5	a
2016	3075	Curry	-	0	0	-	-	-	NA	0/0*/0**	0/0*/0**	i/-*/-*	0/0*	0/0*	i/-*	NA	5	a
2016	3076	Dried thyme	+	0/0*/39.32**	0/0*/61.2**	i/i*/+**	+	+	PA	0/0*/31.98**	0/0*/66.38**	i/i*/+**	0/0*/0**/32.5**	0/0*/0**/66.26***	i/i*/i**/+**	PA	5	a
2016	4265	Cocoa powder	-	0/0*/0**	0/0*/0**	i/i*/-**	-	-	NA	0/0*/0**	0/0*/0**	i/-*/-**	0/0*/0**/0***	0/0*/0**/0***	i/i*/i**/-***	NA	5	a
2016	4266	Cocoa powder	-	0/0*/0**	0/0*/0**	i/-*/-**	-	-	NA	0/0*/0**	0/0*/0**	i/-*/-**	0/0*/0**/0***	0/0*/0**/0***	i/i*/i**/-***	NA	5	a
2016	4267	Cocoa powder	+	0/0*/27.64**	0/0*/66.19**	i/i*/+**	+	+	PA	0/27.53*/28.2**	0/27.53*/66.6**	i/+*/+**	0/0*/0**/29.57***	0/0*/0**/66.22***	i/i*/i**/+**	PA	5	a
2016	4268	Milk chocolate tablet	-	0	0	-	-	-	NA	0/0/35.49	65.77/0/65.9	+/-/+	0	0	-	ND	5	a
2016	4269	Dark chocolate tablet	-	0	0	-	-	-	NA	0/0/0	65.44/0/0	+/-/i	0	0	-	ND	5	a
2016	4270	Cocoa bean	+	34.5	66.1	+	+	+	PA	33.65	66.05	+	35.21	65.97	+	PA	5	a
2016	4694	Cocoa powder	-	(36.83/40/0)**	(66.49/64.07/0)**	i/i*/(+/-/-)**	+ (MSRV -/+ at 72h)	+	PD	0/35.92*	0/65.31*	i/+*	0/0*/0**	0/0*/0**	i/i*/-**	ND	5	a
2016	4695	Cocoa powder	-	0/0*/0**	0/0*/0**	i/i*/-**	-	-	NA	0/0/0*	0/0/0*	i/-/-*	0/0*/0**	0/0*/0**	i/i*/-**	NA	5	a
2016	4696	Tarragon	-	(37.57/37.76/35.78)* / (0/33.96/35.12)**	(66.27/65.73/66.07)* / (63.81/66.18/64.11)**	i/+*/+**	- (MSRV -)	-	PDFP(alt)	0/0/36.17* / 35.9**	0/0/66.81* / 66.09**	i/- /+*/+**	0/0*/35.49**	0/0*/65.51**	i/i*/+*	PA	5	a
2016	4697	Oregano	-	0/0*/0**/0***	0/0*/0**/0***	i/-*/i**/-***	-	-	NA	0/33.78*/0**	0/66.09*/0**	i/+*/i**	0/0*/0**/0***	0/0*/0**/0***	i/i*/i**/-***	ND	5	a
2016	4698	Salsa spices	-	35.91/34.85/35.54	65.94/65.98/65.38	+*/+*/+	- (MSRV -)	-	PDFP(alt)	0	65.47	+	0/34.67*	0/66.05*	i/+*	PA	5	a
2016	4699	Chinese spices	-	0	0	-	-	-	NA	0	0	-	0/0*	0/0*	i/-*	NA	5	a
2016	4984	Black chocolate tablets	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	5	a
2016	4985	Black chocolate tablets	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	5	a
2016	4986	Black chocolate tablets	+	23.7	66.09	+	+	+	PA	22.11	66.42	+	23.54	65.84	+	PA	5	a
2016	5620	Tarragon	-	0/0*/0**	0/0*/0**	i/-*/-**	-	-	NA	0/0*/0**	0/0*/0**	i/-*/-**	0/0*/0**	0/0*/0**	i/i*/-**	NA	5	a
2016	5621	Cocoa powder	-	0/0*/0**	0/0*/0**	i/-*/-**	-	-	NA	0/0*/0**	0/0*/0**	i/-*/-**	0/0*/0**	0/0*/0**	i/-*/-**	NA	5	a
2016	4381	Cereals with probiotics	+	27.96	65.95	+	+	+	PA	28.54	66.45	+	27.81	65.74	+	PA	5	b
2016	4382	Cereals with probiotics	+	25.82	66.24	+	+	+	PA	25.22	66.09	+	24.05	65.34	+	PA	5	b
2016	4383	Cereals with probiotics	+	27.49	66.2	+	+	+	PA	26.74	65.99	+	26.63	65.35	+	PA	5	b
2016	4384	Cereals with probiotics	-	0/0/0	66/66.45/0	+*/+/-	+	+	PD	0	0	-	35.17	65.2	+	PD	5	b
2016	4385	Cereals with probiotics	-	0/0/0	0/0/65.72	-/-/+	+	-	NA	31.85	66.04	+	33.96	65.18	+	PA	5	b
2016	4386	Cereals with probiotics	+	30.03	65.05	+	+	+	PA	29.2	66.12	+	29.64	66.11	+	PA	5	b
2016	4387	Infant cereals with probiotics	+	31.76	65.65	+	+	+	PA	31.18	66.21	+	32.47	65.58	+	PA	5	b
2016	4388	Infant formula with probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	5	b
2016	4389	Infant formula with probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	5	b
2016	4390	Infant formula with probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	5	b
2016	4391	Infant formula with probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	5	b

* Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

INGREDIENTS AND SPECIFIC PRODUCTS (ISO PROTOCOL)																		
Year of analyse	Sample N°	Product	Reference method : ISO 6579*	Alternative method: GENE-UP Salmonella													Category	Type
				BPW for 18h at 37°C														
				PCR initial validation						PCR extension								
				PCR result			Confirmation final result	Final result 20h	Agreement 20h	Multi dose kit			Unit dose kit			Agreement Multi Dose/Unit Dose		
Cp	Tm	Result	Cp	Tm	Result	Cp				Tm	Result							
2016	4392	Infant formula with probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	5	b
2016	4393	Infant formula with probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	5	b
2016	4394	Infant formula with probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	5	b
2016	5622	Infant formula with probiotics	+	24.63	66.22	+	+	+	PA	25.05	66	+	26.02	65.51	+	PA	5	b
2016	5623	Infant formula with probiotics	+	21.91	66.29	+	+	+	PA	20.95	66.35	+	21.38	65.25	+	PA	5	b
2016	5624	Infant formula with probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	5	b
2016	5625	Infant formula with probiotics	+	29.87	65.71	+	+	+	PA	29.46	65.81	+	30.49	65.51	+	PA	5	b
2016	5626	Infant formula with probiotics	+	23.44	66.04	+	+	+	PA	22.25	66.15	+	24.25	65.24	+	PA	5	b
2016	5627	Infant formula with probiotics	+	28	62.94	+	+	+	PA	27.95	65.69	+	30.49	65.3	+	PA	5	b
2016	5628	Infant formula with probiotics	+	30.42	66.14	+	+	+	PA	28.78	65.85	+	29.8	65.53	+	PA	5	b
2016	4734	Pasteurized egg white	+	22.75	66.5	+	+	+	PA	22.88	66.17	+	23.48	65.53	+	PA	5	c
2016	4395	Whole egg powder	+	23.76	66.42	+	+	+	PA	22.67	65.97	+	24.69	63.54	+	PA	5	c
2016	4396	White egg powder	+	25.41	66.35	+	+	+	PA	25.05	66.15	+	24.2	65.39	+	PA	5	c
2016	4397	White egg powder	+	23.11	66.35	+	+	+	PA	22.08	66.21	+	22.72	65.84	+	PA	5	c
2016	4398	Whole egg powder	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	5	c
2016	4399	Whole egg powder	-	0/32.63*	0/66.19*	-/+*	-	-	NA	0	0	-	0	0	-	NA	5	c
2016	4400	Whole egg powder	+	24.97	66.26	+	+	+	PA	23.79	66.07	+	25.2	65.27	+	PA	5	c
2016	4401	Whole egg powder	+	24.32	66.18	+	+	+	PA	22.91	66.02	+	23.43	65.33	+	PA	5	c
2016	4730	Pasteurized egg yolk	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	5	c
2016	4731	Pasteurized egg yolk	+	29.76	65.87	+	+	+	PA	22.3	66.4	+	22.75	65.61	+	PA	5	c
2016	4732	Pasteurized whole egg	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	5	c
2016	4733	Pasteurized whole egg	+	25.18	66.01	+	+	+	PA	21.98	66.29	+	21.94	65.87	+	PA	5	c
2016	5212	Whole egg powder	-	34.61/36.73/0	65.69/66.51/0	+/-	- (MSRV -)	-	PD _{FP(alt)}	0	0	-	0	0	-	NA	5	c
2016	5213	Whole egg powder	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	5	c
2016	5214	Egg yolk powder	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	5	c
2016	5215	White egg powder	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	5	c
2016	5221	Pasteurized egg yolk	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	5	c
2016	5222	Pasteurized whole egg	-	0	0	-	-	-	NA	0	0	-	0/0	0/0	i/-	NA	5	c
2016	5223	Pasteurized whole egg	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	5	c
2016	5629	Sweet egg yolk pasteurized egg (50%)	+	30.42	66.14	+	+	+	PA	23.04	66.22	+	20.11	65.89	+	PA	5	c
2016	5630	Salted egg yolk pasteurized (10%)	+	30.72	65.78	+	+	+	PA	23.47	66.39	+	24.79	65.8	+	PA	5	c
2016	5631	Sweet egg yolk pasteurized egg (50%)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	5	c
2016	5632	Salted egg yolk pasteurized (10%)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	5	c
2017	1992	Pasteurized whole liquid egg	+	21.52	66.06	+	+	+	PA	21.77	66.34	+	21.45	66.47	+	PA	5	c

PET FOODS (GENERAL PROTOCOL)																		
Year of analyse	Sample N°	Product	Reference method: ISO 6579*	Alternative method: GENE-UP Salmonella													Category	Type
				BPW for 18h at 37°C														
				PCR initial validation						PCR extension								
				PCR result			Confirmation final result	Final result 18h	Agreement 18h	Multi dose kit			Unit dose kit			Agreement Multi Dose/ Unit Dose		
				Cp	Tm	Result				Cp	Tm	Result	Cp	Tm	Result			
2016	6458	Sausage for dog	+	22.56	66.63	+	+	+	PA	21.21	66.48	+	21.2	66.52	+	PA	6	a
2016	6459	Sausage for dog	+	21.05	66.77	+	+	+	PA	21.57	66.21	+	20.65	66.19	+	PA	6	a
2016	6460	Pâté for dog (poultry/carrots)	+	21.68	66.33	+	+	+	PA	21.95	66.36	+	20.73	66.22	+	PA	6	a
2016	6461	Pâté for dog (fish/carrots)	+	23.94	66.63	+	+	+	PA	23.32	66.23	+	22.53	66.14	+	PA	6	a
2016	6462	Pâté for cat (beef)	+	22.55	66.47	+	+	+	PA	21.61	66.28	+	20.96	66.11	+	PA	6	a
2016	6463	Pâté for cat (salmon)	+	22.78	66.48	+	+	+	PA	21.62	66.35	+	20.6	66.14	+	PA	6	a
2017	7	Pâté for cat	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	6	a
2017	8	Pâté for cat	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	6	a
2017	9	Pâté for dog	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	6	a
2017	12	Sausage for dog	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	6	a
2017	13	Sausage for dog	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	6	a
2017	14	Sausage for dog	-	0/32.03/0	66.22/65.8/0	+/-/-	- (5 MSRV -)	-	PD _{FP(alt)}	0	0	-	0	0	-	NA	6	a
2017	8575	Sausage for dog	+	20.63	56.68	+	+	+	PA	22.09	56.94	+	23.04	56.81	+	PA	6	a
2017	8576	Sausage for dog	+	23.06	66.15	+	+	+	PA	23.64	66.27	+	22.66	66.27	+	PA	6	a
2017	8577	Sausage for dog	+	20.74	66.25	+	+	+	PA	21.3	66.43	+	20.5	66.65	+	PA	6	a
2017	8578	Pâté for dog (beef)	+	22.01	56.7	+	+	+	PA	22.53	56.93	+	22.48	56.82	+	PA	6	a
2017	8579	Pâté for cat (beef)	+	21.55	66.23	+	+	+	PA	21.02	66.35	+	21.6	66.51	+	PA	6	a
2017	8580	Pâté for cat (chicken)	+	21.49	66.3	+	+	+	PA	22.49	66.35	+	21.27	66.65	+	PA	6	a
2017	8581	Pâté for cat (salmon)	+	21.95	56.61	+	+	+	PA	22.18	56.52	+	22.26	56.65	+	PA	6	a
2017	8582	Pâté for dog (duck/vegetables)	+	23.19	66.52	+	+	+	PA	22.33	66.46	+	23.09	66.92	+	PA	6	a
2017	8583	Pâté for dog (beef/carrots)	+	20.79	66.23	+	+	+	PA	22.89	66.31	+	20.7	65.84	+	PA	6	a
2017	8584	Pâté for dog (poultry)	+	20.82	56.59	+	+	+	PA	21.98	56.71	+	21.07	56.49	+	PA	6	a
2017	9584	Pâté for dog (beef)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	6	a
2017	9585	Pâté for dog (beef/vegetables)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	6	a
2017	9586	Pâté for dog (lamb /vegetables)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	6	a
2017	9587	Pâté for dog poultry/ liver/vegetables)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	6	a
2017	9588	Pâté for dog (poultry)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	6	a
2017	9589	Pâté for cat (salmon/trout)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	6	a
2017	9590	Pâté for cat (rabbit/liver/vegetables)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	6	a
2017	9591	Pâté for cat (poultry/kidney)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	6	a
2017	9592	Sausage for dog	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	6	a
2017	9593	Sausage for dog	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	6	a
2017	9594	Sausage for dog	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	6	a
2016	6419	Pellets for dog (beef/vegetables)	+	22.19	66.41	+	+	+	PA	23.49	66.59	+	23.5	66.75	+	PA	6	b
2016	6420	Pellets for dog (beef)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	6	b
2016	6421	Pellets for dog (beef)	+	28.92	65.86	+	+	+	PA	29.86	66.64	+	30.59	66.63	+	PA	6	b
2016	6422	Pellets for cat (rabbit/ poultry/vegetables/cereals)	+	22.76	66.44	+	+	+	PA	24.6	66.61	+	23.61	66.53	+	PA	6	b
2016	6423	Pellets for cat (salmon/tuna/vegetables)	+	29.62	65.78	+	+	+	PA	29.76	66.48	+	30.53	66.29	+	PA	6	b
2016	6424	Pellets for cat (liver)	+	24.4	65.98	+	+	+	PA	30.44	66.97	+	26.11	66.6	+	PA	6	b
2017	10	Pellets for dog	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	6	b
2017	11	Pellets for cat	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	6	b
2017	8514	Bird food	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	6	b
2017	8515	Rodent food	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	6	b

* Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

PET FOODS (GENERAL PROTOCOL)																		
Year of analyse	Sample N°	Product	Reference method: ISO 6579*	Alternative method: GENE-UP Salmonella													Category	Type
				BPW for 18h at 37°C														
				PCR initial validation						PCR extension								
				PCR result			Confirmation final result	Final result 18h	Agreement 18h	Multi dose kit			Unit dose kit			Agreement Multi Dose/ Unit Dose		
				Cp	Tm	Result				Cp	Tm	Result	Cp	Tm	Result			
2017	8516	Rabbit food	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	6	b
2017	8517	Guinea pig food	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	6	b
2017	8518	Pellets for dog	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	6	b
2017	8519	Pellets for dog	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	6	b
2017	8520	Pellets for dog (poultry/ cereals/ vegetables)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	6	b
2017	8521	Pellets for dog	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	6	b
2017	8522	Pellets for cat (beef/ poultry/ vegetables)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	6	b
2017	8523	Pellets for cat (tuna/ salmon/ cereals/ vegetables)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	6	b
2017	8524	Pellets for cat (beef/ poultry/ vegetables)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	6	b
2017	9107	Rodent food	+	26.78	66.41	+	+	+	PA	28.6	66.05	+	28.13	66	+	PA	6	b
2017	9108	Bird food	+	25.97	66.46	+	+	+	PA	26.85	66.13	+	26.07	66.23	+	PA	6	b
2017	9109	Guinea pig food	+	30.22	65.88	+	+	+	PA	29.43	65.67	+	30.21	66.18	+	PA	6	b
2017	9110	Guinea pig food	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	6	b
2017	9111	Pellets for cat (beef/ poultry/ vegetables)	+	22.67	66.25	+	+	+	PA	22.61	66.38	+	22.15	66.05	+	PA	6	b
2017	9112	Pellets for cat (chicken/duck/vegetables)	+	23.51	66.05	+	+	+	PA	22.58	65.71	+	22.57	65.84	+	PA	6	b
2017	9113	Pellets for cat (beef/poultry/fish)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	6	b
2017	9114	Pellets for dog (beef)	+	22.04	66.36	+	+	+	PA	22.72	66.44	+	22.04	66.43	+	PA	6	b
2017	9115	Pellets for cat (beef/poultry/vegetables)	+	23.59	66.02	+	+	+	PA	23.1	66.42	+	23.12	66.61	+	PA	6	b
2017	9116	Pellets for dog (poultry/vegetables)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	6	b
2017	9117	Pellets for cat (tuna/ salmon/ cereals/ vegetables)	+	22.08	66.41	+	+	+	PA	22.43	66.28	+	22	66.12	+	PA	6	b
2017	9624	Pellets for cat (tuna, salmon, cereals, vegetables)	+	20.43	66.65	+	+	+	PA	20.73	66.55	+	20.22	66.08	+	PA	6	b
2017	9625	Pellets for dog (beef)	+	20.42	66.62	+	+	+	PA	20.91	66.18	+	20.11	65.93	+	PA	6	b

PRODUCTION ENVIRONMENTAL SAMPLES (GENERAL PROTOCOL)																		
Year of analyse	Sample N°	Product	Reference method: ISO 6579*	Alternative method: GENE-UP Salmonella												Category	Type	
				BPW for 18h at 37°C														
				PCR initial validation						PCR extension								
				PCR result			Confirmation final result	Final result 18h	Agreement 18h	Multi dose kit			Unit dose kit					Agreement Multi Dose/ Unit Dose
Cp	Tm	Result	Cp	Tm	Result	Cp				Tm	Result							
2016	7349	Residues (swine industry)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	7	a
2016	7572	Residues (vegetables industry)	+	24.91	66.53	+	+	+	PA	24.07	66.09	+	24.51	66.4	+	PA	7	a
2016	7573	Residues (vegetables industry)	+	23.87	66.44	+	+	+	PA	24.13	66.1	+	23.67	66.44	+	PA	7	a
2016	7578	Residues (fish industry)	+	33.75	65.9	+	+	+	PA	33.45	66.22	+	33.45	65.72	+	PA	7	a
2016	7579	Residues (fish industry)	+	26.28	65.93	+	+	+	PA	22.58	66.21	+	22.64	66.38	+	PA	7	a
2016	7580	Residues (fish industry)	+	0/0/0	0/0/0	-/-/-	+	-	ND	0	0	-	0	0	-	NA	7	a
2016	7581	Residues (fish industry)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	7	a
2016	7582	Residues (fish industry)	+	21.83	66.21	+	+	+	PA	22.9	66.26	+	23.1	66.5	+	PA	7	a
2016	7667	Dust from dairy industry	+	35.24	65.78	+	+	+	PA	34.49	65.95	+	34.65	65.4	+	PA	7	a
2016	7668	Dust from dairy industry	+	32.16	65.69	+	+	+	PA	31.74	65.79	+	32.63	65.25	+	PA	7	a
2016	7669	Dust from dairy industry	+	30.94	65.12	+	+	+	PA	31.13	65.61	+	31.21	65.27	+	PA	7	a
2016	7670	Dust from dairy industry	+	35.11	65.91	+	+	+	PA	34.69	66.32	+	35.32	65.61	+	PA	7	a
2016	7777	Residues (delicatessen industry)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	7	a
2016	7780	Residues (delicatessen industry)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	7	a
2016	7963	Residues (vegetables industry)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	7	a
2016	7964	Residues (delicatessen industry)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	7	a
2016	7965	Residues (delicatessen industry)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	7	a
2016	7966	Residues (delicatessen industry)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	7	a
2016	7967	Residues (Beef meat)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	7	a
2016	7968	Residues (Beef meat)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	7	a
2016	2404	Porcine environment	+	25.71	67.39	+	+	+	PA	25.95	66.44	+	28.02	66.71	+	PA	7	b
2016	2405	Porcine environment	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	7	b
2016	2406	Porcine environment	-	0	0	-	-	-	NA	0	0	-	35.7/0/0	66.26/0/0	+/-/-	PD	7	b
2016	2407	Porcine environment	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	7	b
2016	2408	Porcine environment	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	7	b
2016	2409	Porcine environment	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	7	b
2016	7350	Process water (swine industry)	+	34.46	66.04	+	+	+	PA	35.89	65.7	+	0/0/0	0/0/0	-/-/-	ND	7	b
2016	7351	Process water (swine industry)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	7	b
2016	7352	Process water (swine industry)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	7	b
2016	7353	Process water (swine industry)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	7	b
2016	7354	Process water (swine industry)	+	32.87	66.06	+	+	+	PA	32.83	66.32	+	33.09	65.98	+	PA	7	b
2016	7355	Process water (swine industry)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	7	b
2016	7569	Cleaning water (vegetables industry)	+	25.84	66.28	+	+	+	PA	24.13	66.19	+	24.92	66.73	+	PA	7	b
2016	7570	Cleaning water (vegetables industry)	+	27.83	65.93	+	+	+	PA	27.5	66.08	+	26.92	66.04	+	PA	7	b
2016	7571	Process water (vegetables industry)	-	29.29/31.3/31.92	66.15/66.22/66.08	+/+/+	- (5 MSRV -)	-	PD _{FP(alt)}	0	0	-	0	0	-	NA	7	b
2016	7574	Process water (fish industry)	+	24.18	66.2	+	+	+	PA	23.49	66.18	+	22.1	66.22	+	PA	7	b
2016	7575	Process water (fish industry)	+	25.03	66.17	+	+	+	PA	24	66.1	+	25.53	66.57	+	PA	7	b
2016	7576	Process water (fish industry)	+	26.1	66.29	+	+	+	PA	25.86	66.28	+	24.72	66.67	+	PA	7	b
2016	7577	Process water (fish industry)	+	27.45	66.18	+	+	+	PA	28.27	66.37	+	28.27	66.64	+	PA	7	b
2016	7671	Water from pasteurizer (egg product industry)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	7	b
2016	7672	Water from pasteurizer (egg product industry)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	7	b
2016	7773	Cleaning water (delicatessen industry)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	7	b
2016	7774	Cleaning water (delicatessen industry)	+	24.56	66.35	+	+	+	PA	23.75	65.98	+	23.86	66.33	+	PA	7	b
2016	7775	Cleaning water (delicatessen industry)	+	26.24	66.35	+	+	+	PA	25.33	66.19	+	25.92	66.53	+	PA	7	b

* Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

PRODUCTION ENVIRONMENTAL SAMPLES (GENERAL PROTOCOL)																		
Year of analyse	Sample N°	Product	Reference method: ISO 6579*	Alternative method: GENE-UP Salmonella													Category	Type
				BPW for 18h at 37°C														
				PCR initial validation						PCR extension								
				PCR result			Confirmation final result	Final result 18h	Agreement 18h	Multi dose kit			Unit dose kit			Agreement Multi Dose/ Unit Dose		
				Cp	Tm	Result				Cp	Tm	Result	Cp	Tm	Result			
2016	2410	Porcine environment	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	7	c
2016	2411	Porcine environment	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	7	c
2016	2412	Porcine environment	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	7	c
2016	2413	Porcine environment	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	7	c
2016	2414	Porcine environment	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	7	c
2016	2415	Porcine environment	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	7	c
2016	7356	Wipe (swine industry)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	7	c
2016	7357	Wipe (swine industry)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	7	c
2016	7358	Wipe (swine industry)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	7	c
2016	7360	Wipe (swine industry)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	7	c
2016	7361	Wipe (swine industry)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	7	c
2016	7362	Wipe (swine industry)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	7	c
2016	7363	Wipe (swine industry)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	7	c
2016	7364	Wipe (swine industry)	+	32.51	66	+	+	+	PA	32.06	66.35	+	32.61	65.67	+	PA	7	c
2016	7365	Wipe (swine industry)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	7	c
2016	7366	Wipe (swine industry)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	7	c
2016	7367	Wipe (swine industry)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	7	c
2016	7661	Wipe (vegetables industry)	+	31.85	65.92	+	+	+	PA	31.43	66.31	+	33.77	66.01	+	PA	7	c
2016	7662	Wipe (vegetables industry)	+	32.43	66.17	+	+	+	PA	32.09	66.67	+	33.92	66.05	+	PA	7	c
2016	7663	Wipe (vegetables industry)	+	0/0/0	0/0/0	-/-/-	+	-	ND	0	0	-	0	0	-	NA	7	c
2016	7664	Wipe (vegetables industry)	-	0	0	-	-	-	NA	34.93	66.52	+	34.98	65.86	+	PA	7	c
2016	7665	Wipe (dairy industry)	+	30.69	66.16	+	+	+	PA	30.29	66.32	+	32.12	65.95	+	PA	7	c
2016	7666	Wipe (dairy industry)	+	30.46	66.01	+	+	+	PA	30.7	66.24	+	32.48	65.94	+	PA	7	c
2016	7786	Wipe (delicatessen industry)	+	29.46	65.92	+	+	+	PA	29.14	66.21	+	28.84	66.62	+	PA	7	c
2016	7787	Wipe (delicatessen industry)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	7	c
2016	7788	Wipe after cleaning (delicatessen industry)	+	22.18	66.36	+	+	+	PA	22.03	66.29	+	21.24	66.7	+	PA	7	c
2016	7789	Wipe after cleaning (delicatessen industry)	+	26.2	66.33	+	+	+	PA	28.29	66.75	+	0/34.79/34.64	0/64.8/64.89	-/+/+	ND	7	c
2016	7790	Wipe after cleaning (delicatessen industry)	+	23.93	66.63	+	+	+	PA	24.62	66.45	+	0/29.56/29.81	0/65.3/63.17	-/+/+	ND	7	c

COCOA AND CHOCOLATES (SPECIFIC PROTOCOL 4) (375 g sample size)																			
Year of analyse	Sample N°	Product	Reference method : ISO 6579*	Alternative method: GENE-UP Salmonella														Category	Type
				BPW for 20h at 37°C															
				PCR initial validation						PCR extension									
				PCR result			Confirmation final result	Final result 20h	Agreement 20h	Multi dose kit			Unit dose kit			Agreement Multi Dose/Unit Dose			
				Cp	Tm	Result				Cp	Tm	Result	Cp	Tm	Result				
2017	3260	Cocoa powder (cocoa 32%)	+	32.76	66.16	+	+	+	PA	34.47	66.52	+	34.14	66.53	+	PA	10	a	
2017	3261	Cocoa powder (cocoa 32%)	+	31.33	66.16	+	+	+	PA	31.85	66.39	+	31.84	66.54	+	PA	10	a	
2017	3262	Cocoa powder (cocoa 31.7%)	+	29.4	66.13	+	+	+	PA	30.47	66.44	+	30.14	66.55	+	PA	10	a	
2017	3263	Cocoa powder (cocoa 31.7%)	-	30.95	66.14	+	+	+	PD	31.26	66.18	+	31.48	66.4	+	PA	10	a	
2017	3264	Cocoa powder (cocoa 32%)	+	0	0	-	-	-	ND	0	0	-	0	0	-	NA	10	a	
2017	3265	Cocoa powder (cocoa 32%)	+	29.45	66.14	+	+	+	PA	30.86	66.67	+	30.51	66.51	+	PA	10	a	
2017	3266	Cocoa powder (cocoa 32%)	-	33.94	66.41	+	+	+	PD	35.08	66.83	+	34.9	66.39	+	PA	10	a	
2017	3267	Cocoa powder (cocoa 32%)	+	30.19	66.57	+	+	+	PA	30.69	66.58	+	30.46	66.5	+	PA	10	a	
2017	3268	Cocoa powder (cocoa 21.3%)	+	32.56	66.5	+	+	+	PA	33.63	66.56	+	33.75	66.67	+	PA	10	a	
2017	3269	Cocoa powder (cocoa 21.3%)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	a	
2017	3270	Cocoa powder (cocoa 32%)	+	31.42	66.13	+	+	+	PA	32.5	66.52	+	32.16	66.57	+	PA	10	a	
2017	3271	Cocoa powder (cocoa 32%)	-	27.43	66.14	+	+	+	PD	27.57	66.22	+	29.63	66.56	+	PA	10	a	
2017	3272	Cocoa powder (cocoa 20%)	+	0	0	-	-	-	ND	0	0	-	0	0	-	NA	10	a	
2017	3273	Cocoa powder (cocoa 20%)	-	33.13	66.09	+	+	+	PD	34.36	66.6	+	33.98	66.55	+	PA	10	a	
2017	3274	Cocoa powder (cocoa 32%)	+	29.72	66.51	+	+	+	PA	29.91	66.73	+	30.8	66.6	+	PA	10	a	
2017	3275	Cocoa powder (cocoa 32%)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	a	
2017	3276	Cocoa powder (cocoa 32%)	+	28.47	66.32	+	+	+	PA	29.73	66.49	+	29.44	66.08	+	PA	10	a	
2017	3277	Cocoa powder (cocoa 32%)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	a	
2017	3278	Cocoa powder (cocoa 20%)	+	0	0	-	-	-	ND	0	0	-	0	0	-	NA	10	a	
2017	3279	Cocoa powder (cocoa 32%)	+	0	0	-	-	-	ND	0	0	-	0	0	-	NA	10	a	
2017	7048	Alkalized organic cocoa powder	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	a	
2017	7049	Fat reduced cocoa powder	-	0	0	-	-	-	NA	0	0	-	0/0*	0/0*	i/-*	NA	10	a	
2017	7050	Fat reduced cocoa powder	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	a	
2017	7692	Cocoa powder	-	0	0	-	-	-	NA	35.04/0/36.99	67.02/0/66.89	+/-/+	35.8/0/0	66.46/0/0	+/-/-	PA	10	a	
2017	6691	White chocolate	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	b	
2017	6692	White chocolate	+	29.51	66.26	+	+	+	PA	30.15	66.48	+	31.05	66.47	+	PA	10	b	
2017	6693	Dark chocolate	-	33.12	66.48	+	+	+	PD	33.66	66.96	+	35.04	66.88	+	PA	10	b	
2017	6694	Nuts chocolate	+	27.29	66.14	+	+	+	PA	28.94	66.63	+	28.84	66.65	+	PA	10	b	
2017	6695	Nuts chocolate	+	30.01	66.25	+	+	+	PA	31.94	66.69	+	31.28	66.61	+	PA	10	b	
2017	6696	Milk chocolate	+	35.56	66.9	+	+	+	PA	35.53	67.01	+	35.77	66.85	+	PA	10	b	
2017	6697	Milk chocolate	+	32.01	66.45	+	+	+	PA	32.26	66.55	+	32.56	66.73	+	PA	10	b	
2017	6698	Dark chocolate (65% cocoa)	-	31.1	66.49	+	+	+	PD	32.58	66.87	+	33.73	67.05	+	PA	10	b	
2017	6699	Couverture chocolate (75% cocoa)	+	28.82	66.34	+	+	+	PA	29.69	66.74	+	29.77	66.55	+	PA	10	b	
2017	6700	Chocolate for bakery (44% cocoa)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	b	
2017	7051	White chocolate	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	b	
2017	7052	Dark chocolate	-	0	0	-	-	-	NA	35.61/0/0	66.68/0/0	+/-/-	0	0	-	ND	10	b	
2017	7053	Nuts chocolate	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	b	
2017	7693	Dark chocolate (50% cocoa)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	b	
2017	7694	Dark chocolate (75% cocoa)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	b	
2017	7695	Dark chocolate	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	b	
2017	7696	Dark chocolate (65% cocoa)	-	0	0	-	-	-	NA	32.93/33.21/33.13	66.66/66.58/66.41	+/+/+	33.43/0/0	66.55/0/0	+/-/-	PA	10	b	
2017	7697	Milk chocolate (41% cocoa)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	b	
2017	7698	Chocolate for bakery (44% cocoa)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	b	
2017	7699	Chocolate for bakery (44% cocoa)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	b	

* Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

COCOA AND CHOCOLATES (SPECIFIC PROTOCOL 4) (375 g sample size)																		
Year of analyse	Sample N°	Product	Reference method : ISO 6579♦	Alternative method: GENE-UP Salmonella													Category	Type
				BPW for 20h at 37°C														
				PCR initial validation						PCR extension								
				PCR result			Confirmation final result	Final result 20h	Agreement 20h	Multi dose kit			Unit dose kit			Agreement Multi Dose/Unit Dose		
				Cp	Tm	Result				Cp	Tm	Result	Cp	Tm	Result			
2017	4260	Cocoa liquor	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	c
2017	6681	Cocoa beans	+	0/0/0	0/0/0	-/-/-	+	-	ND	0	0	-	0	0	-	NA	10	c
2017	6682	Natural cocoa liquor	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	c
2017	6683	Cocoa butter	+	25.44	66.27	+	+	+	PA	26.86	66.56	+	26.42	66.78	+	PA	10	c
2017	6684	Deodorized cocoa butter	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	c
2017	6685	Non deodorized cocoa butter	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	c
2017	6686	Cocoa mass	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	c
2017	6688	Cocoa mass	+	27.8	66.48	+	+	+	PA	29.99	66.77	+	29.81	66.97	+	PA	10	c
2017	6689	Cocoa mass	-	0/35.03/0	0/66.74/0	-/+/-	+	-	NA	35.65	66.89	+	0/34.61/34.42	0/66.7/66.73	-/+/+	ND	10	c
2017	6690	Cocoa mass	+	0	0	-	-	-	ND	0	0	-	0	0	-	NA	10	c
2017	7054	Cocoa mass	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	c
2017	7055	Cocoa mass	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	c
2017	7056	Cocoa mass	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	c
2017	7700	Cocoa mass	+	26.54	66.57	+	+	+	PA	28.16	66.58	+	28.42	66.77	+	PA	10	c
2017	7701	Cocoa mass	+	24.48	66.19	+	+	+	PA	26.46	66.41	+	26.84	66.66	+	PA	10	c
2017	7702	Cocoa mass	+	24.03	66.36	+	+	+	PA	25.21	66.37	+	25.24	66.37	+	PA	10	c
2017	7703	Cocoa butter	+	24.7	66.33	+	+	+	PA	26.57	66.5	+	25.85	66.46	+	PA	10	c
2017	7704	Cocoa butter	-	0	0	-	-	-	NA	30.93/32.2/32.62	66.5/66.42/66.49	+/+/+	31.77/0/0	66.51/0/0	+/-/-	PA	10	c
2017	7705	Cocoa mass	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	c
2017	7706	Cocoa mass	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	c
2017	7707	Cocoa mass	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	c

COCOA AND CHOCOLATES (ISO PROTOCOL) (375 g sample size)																		
Year of analyse	Sample N°	Product	Reference method : ISO 6579*	Alternative method: GENE-UP® Salmonella													Category	Type
				ISO Enrichment for 22h at 37°C														
				PCR initial validation						PCR extension								
				PCR result			Confirmation final result	Final result 20h	Agreement 20h	Multi dose kit			Unit dose kit			Agreement Multi Dose/Unit Dose		
Cp	Tm	Result	Cp	Tm	Result	Cp				Tm	Result							
2017	3260	Cocoa powder (cocoa 32%)	+	31.77	66.23	+	+	+	PA	31.78	66.95	+	33.63	66.88	+	PA	10	a
2017	3261	Cocoa powder (cocoa 32%)	+	31.83	66.55	+	+	+	PA	31.69	66.74	+	33.1	66.67	+	PA	10	a
2017	3262	Cocoa powder (cocoa 31.7%)	+	32.69	66.6	+	+	+	PA	32.07	66.88	+	33.84	66.89	+	PA	10	a
2017	3263	Cocoa powder (cocoa 31.7%)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	a
2017	3264	Cocoa powder (cocoa 32%)	+	30.82	66.46	+	+	+	PA	30.14	66.69	+	31.09	66.54	+	PA	10	a
2017	3265	Cocoa powder (cocoa 32%)	+	33.86	66.4	+	+	+	PA	33.84	66.7	+	34.26	66.74	+	PA	10	a
2017	3266	Cocoa powder (cocoa 32%)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	a
2017	3267	Cocoa powder (cocoa 32%)	+	30.84	66.36	+	+	+	PA	31.29	66.84	+	33.08	67.02	+	PA	10	a
2017	3268	Cocoa powder (cocoa 21.3%)	+	29.14	66.18	+	+	+	PA	28.93	66.81	+	30.79	66.84	+	PA	10	a
2017	3269	Cocoa powder (cocoa 21.3%)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	a
2017	3270	Cocoa powder (cocoa 32%)	+	26.49	66.16	+	+	+	PA	27.17	66.72	+	26.63	66.54	+	PA	10	a
2017	3271	Cocoa powder (cocoa 32%)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	a
2017	3272	Cocoa powder (cocoa 20%)	+	31.72	65.92	+	+	+	PA	32.44	66.73	+	32.18	66.58	+	PA	10	a
2017	3273	Cocoa powder (cocoa 20%)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	a
2017	3274	Cocoa powder (cocoa 32%)	+	31.58	65.99	+	+	+	PA	30.89	66.59	+	30.52	66.27	+	PA	10	a
2017	3275	Cocoa powder (cocoa 32%)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	a
2017	3276	Cocoa powder (cocoa 32%)	+	31.85	65.81	+	+	+	PA	31.15	66.48	+	31.25	66.24	+	PA	10	a
2017	3277	Cocoa powder (cocoa 32%)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	a
2017	3278	Cocoa powder (cocoa 20%)	+	30.53	65.49	+	+	+	PA	30.7	66.42	+	30.81	66.33	+	PA	10	a
2017	3279	Cocoa powder (cocoa 32%)	+	31.52	66.3	+	+	+	PA	30.67	66.68	+	30.67	66.61	+	PA	10	a
2017	7048	Alkalized organic cocoa powder	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	a
2017	7049	Fat reduced cocoa powder	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	a
2017	7050	Fat reduced cocoa powder	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	a
2017	4261	Dark chocolate (50% cocoa)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	b
2017	4262	Milk chocolate and caramel (31% cocoa)	+	31.85	66.43	+	+	+	PA	34.06	66.95	+	34.7	66.99	+	PA	10	b
2017	4263	Milk chocolate (47% cocoa)	+	33.06	66.51	+	+	+	PA	0/33.05/33.29	0/66.19/66.56	-/+	0/33.55/33.6	0/66.59/66.48	-/+	NA	10	b
2017	4264	Dark chocolate (50% cocoa)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	b
2017	4265	Dark chocolate (65% cocoa)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	b
2017	5372	Dark chocolate	+	28.86	66.39	+	+	+	PA	31.89	66.66	+	31.79	66.75	+	PA	10	b
2017	5373	Dark chocolate	+	24.62	66.35	+	+	+	PA	28.5	66.41	+	27.72	66.44	+	PA	10	b
2017	5374	Dark chocolate	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	b
2017	5375	White chocolate	+	32.69	66.44	+	+	+	PA	33.8	66.47	+	33.98	66.57	+	PA	10	b
2017	5376	White chocolate	+	35.01	66.4	+	+	+	PA	34.83	66.63	+	34.73	66.51	+	PA	10	b
2017	5377	White chocolate	+	34.17	66.42	+	+	+	PA	35.57	66.78	+	34.62	66.64	+	PA	10	b
2017	5378	Milk chocolate	+	29.77	66.48	+	+	+	PA	31.64	66.33	+	31.05	66.46	+	PA	10	b
2017	5379	Milk chocolate	+	34.08	66.32	+	+	+	PA	35.59	67.57	+	35.08	66.95	+	PA	10	b
2017	5380	Milk chocolate	+	31.68	66.26	+	+	+	PA	34.22	67.14	+	34.66	67.67	+	PA	10	b
2017	5381	Nut chocolate	+	35.06	66.34	+	+	+	PA	35.12	66.72	+	35.99	67.17	+	PA	10	b
2017	5382	Nut chocolate	+	0	0	-	+	-	ND	0	0	-	0	0	-	NA	10	b
2017	7051	White chocolate	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	b
2017	7052	Dark chocolate	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	b
2017	7053	Nuts chocolate	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	b
2017	7693	Dark chocolate (50% cocoa)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	b

* Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

COCOA AND CHOCOLATES (ISO PROTOCOL) (375 g sample size)																		
Year of analyse	Sample N°	Product	Reference method : ISO 6579*	Alternative method: GENE-UP® Salmonella													Category	Type
				ISO Enrichment for 22h at 37°C														
				PCR initial validation						PCR extension								
				PCR result			Confirmation final result	Final result 20h	Agreement 20h	Multi dose kit			Unit dose kit			Agreement Multi Dose/Unit Dose		
				Cp	Tm	Result				Cp	Tm	Result	Cp	Tm	Result			
2017	4256	Cocoa butter	-	36.44/0/0	66.51/0/0	+/-/-	-	-	PD _{FP(alt)}	0	0	-	0	0	-	NA	10	c
2017	4257	Cocoa beans	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	c
2017	4258	Crumbs	+	29.62	66.62	+	+	+	PA	34.06	66.46	+	33.51	66.26	+	PA	10	c
2017	4259	Crumbs	-	0	0	-	-	-	NA	30.7/0/0	66.26/0/0	+/-/-	31.32/0/0	66.49/0/0	+/-/-	PA	10	c
2017	4260	Cocoa liquor	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	c
2017	6681	Cocoa beans	+	35.17	66.47	+	- (+ ISO)	+	PA	0	0	-	0	0	-	NA	10	c
2017	6682	Natural cocoa liquor	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	c
2017	6683	Cocoa butter	+	25.25	66.38	+	+	+	PA	28.86	67.11	+	29.87	67.12	+	PA	10	c
2017	6684	Deodorized cocoa butter	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	c
2017	6685	Non deodorized cocoa butter	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	c
2017	6686	Cocoa mass	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	c
2017	6687	Cocoa mass	+	35	66.47	+	+	+	PA	0/0/35.54	0/0/66.64	-/-/+	35.65	66.95	+	PD	10	c
2017	6688	Cocoa mass	+	25.56	66.38	+	+	+	PA	27.93	66.97	+	27.16	66.87	+	PA	10	c
2017	6689	Cocoa mass	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	c
2017	6690	Cocoa mass	+	25.1	66.46	+	+	+	PA	28.49	67.07	+	29.44	67.32	+	PA	10	c
2017	7700	Cocoa mass	+	25.25	66.38	+	+	+	PA	27.61	66.81	+	26.68	66.49	+	PA	10	c
2017	7701	Cocoa mass	+	24.32	66.33	+	+	+	PA	27.83	66.65	+	26.05	66.25	+	PA	10	c
2017	7704	Cocoa butter	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	c
2017	7705	Cocoa mass	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	c
2017	7706	Cocoa mass	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	c
2017	7707	Cocoa mass	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	c

MILK POWDERS (SPECIFIC PROTOCOL 5) (375 g sample size)																		
Year of analyse	Sample N°	Product	Reference method : ISO 6579*	Alternative method: GENE-UP Salmonella													Category	Type
				BPW (1/4 dilution) + novobiocin 10mg/L for 20h at 37°C														
				PCR initial validation						PCR extension								
				PCR result			Confirmation final result	Final result 20h	Agreement 20h	Multi dose kit			Unit dose kit			Agreement Multi Dose/Unit Dose		
Cp	Tm	Result	Cp	Tm	Result	Cp				Tm	Result							
2017	4487	Skim milk powder	+	0	0	-	-	-	ND	0	0	-	0	0	-	NA	11	a
2017	4488	Skim milk powder	+	29.55	64.31	+	+	+	PA	27.49	65.45	+	0/26.84*	0/65.34*	i/+*	PA	11	a
2017	4489	Skim milk powder	+	0	0	-	-	-	ND	0	0	-	0	0	-	NA	11	a
2017	4490	Half-skim milk powder	-	21.5	65.69	+	+	+	PD	21.63	65.93	+	28.91	64.76	+	PA	11	a
2017	4491	Milk powder	-	35.57	65.13	+	+	+	PD	35.58	65.66	+	40	64.43	+	PA	11	a
2017	5540	Milk powder	-	26.83	65.26	+	+	+	PD	25.48	66.17	+	40	64.33	+	PA	11	a
2017	5541	Skim milk powder	+	0	0	-	-	-	ND	0	0	-	0	0	-	NA	11	a
2017	5542	Skim milk powder	+	0	0	-	-	-	ND	0	0	-	0	0	-	NA	11	a
2017	5543	Skim milk powder	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	11	a
2017	5544	Skim milk powder	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	11	a
2017	7194	Skim milk powder	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	11	a
2017	7195	Skim milk powder	+	32.82	64.66	+	+	+	PA	31.46	65.04	+	0/30.81*	0/65.02*	i/+*	PA	11	a
2017	7196	Skim milk powder	-	35.35	65.06	+	+	+	PD	34.12	65.6	+	40	64.48	+	PA	11	a
2017	7197	Skim milk powder	-	26.39	65.03	+	+	+	PD	25.12	66.1	+	40	64.32	+	PA	11	a
2017	7198	Half-skim milk powder	+	34.71	64.82	+	+	+	PA	33.06	65.62	+	40	64.44	+	PA	11	a
2017	7869	Milk powder	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	11	a
2017	7870	Half-skim milk powder	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	11	a
2017	7876	Skim milk powder	-	0	0	-	-	-	NA	0	0	-	0/0*	0/0*	i/-*	NA	11	a
2017	7877	Skim milk powder	-	0	0	-	-	-	NA	0	0	-	0/0*	0/0*	i/-*	NA	11	a
2017	7878	Skim milk powder	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	11	a
2017	7879	Skim milk powder	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	11	a
2017	7880	Skim milk powder	-	0	0	-	-	-	NA	0	0	-	0/0*	0/0*	i/-*	NA	11	a
2017	4492	Infant formula without probiotics	-	27.98	65.59	+	+	+	PD	28.81	65.99	+	28.41	65.88	+	PA	11	b
2017	4493	Infant formula without probiotics	-	20.49	66.33	+	+	+	PD	21.49	66.08	+	20.42	66.19	+	PA	11	b
2017	4494	Infant formula without probiotics	+	0/0/0	0/0/0	-/-/-	+	-	ND	0	0	-	35.97	66.06	+	PD	11	b
2017	4495	Infant formula without probiotics	+	23.67	66.19	+	+	+	PA	24.91	66.23	+	25.07	66.16	+	PA	11	b
2017	4496	Infant formula without probiotics	+	19.78	65.97	+	+	+	PA	20.92	66.13	+	20.4	66.11	+	PA	11	b
2017	5545	Infant formula without probiotics	+	20.55	66.08	+	+	+	PA	22.09	66.1	+	21.24	64.43	+	PA	11	b
2017	5546	Infant formula without probiotics	+	20.33	66.01	+	+	+	PA	20.63	66.33	+	21.15	66.1	+	PA	11	b
2017	5547	Infant formula without probiotics	+	19.67	66.45	+	+	+	PA	21.11	66.69	+	20.27	66.14	+	PA	11	b
2017	5548	Infant formula without probiotics	+	25.74	65.84	+	+	+	PA	26.99	66.08	+	27.26	65.8	+	PA	11	b
2017	5549	Infant formula without probiotics	+	20.24	65.87	+	+	+	PA	21.16	65.99	+	21.15	65.89	+	PA	11	b
2017	7871	Infant formula without probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	11	b
2017	7872	Infant formula without probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	11	b
2017	7873	Infant formula without probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	11	b
2017	7874	Infant formula without probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	11	b
2017	7881	Infant formula without probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	11	b
2017	7882	Infant formula without probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	11	b
2017	7883	Infant formula without probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	11	b
2017	7884	Infant formula without probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	11	b
2017	7885	Infant formula without probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	11	b
2017	7886	Infant formula without probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	11	b
2017	4497	Infant formula with probiotics (3.2 x 10 ⁶ CFU/g)	-	36.42	66.04	+	+	+	PD	0/0/0	0/0/0	-/-/-	0/0/0	0/0/0	-/-/-	NA	11	c
2017	4498	Infant formula with probiotics (6.4 x10 ⁵ CFU/g)	+	28.77	65.54	+	+	+	PA	28.55	65.8	+	28.84	65.75	+	PA	11	c
2017	4499	Infant formula with probiotics (5.2 x 10 ⁶ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	11	c
2017	4500	Infant formula with probiotics (2.3 x 10 ⁶ CFU/g)	-	27.49	66.29	+	+	+	PD	29.11	66.06	+	27.82	66.18	+	PA	11	c

* Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

MILK POWDERS (SPECIFIC PROTOCOL 5) (375 g sample size)																		
Year of analyse	Sample N°	Product	Reference method : ISO 6579♦	Alternative method: GENE-UP Salmonella													Category	Type
				BPW (1/4 dilution) + novobiocin 10mg/L for 20h at 37°C														
				PCR initial validation						PCR extension								
				PCR result			Confirmation final result	Final result 20h	Agreement 20h	Multi dose kit			Unit dose kit			Agreement Multi Dose/Unit Dose		
				Cp	Tm	Result				Cp	Tm	Result	Cp	Tm	Result			
2017	4501	Infant formula with probiotics (2.0 x 10 ⁵ CFU/g)	+	21.77	66.31	+	+	+	PA	22.77	66.05	+	21.61	66.23	+	PA	11	c
2017	5550	Infant formula with probiotics (2.0 x 10 ⁷ CFU/g)	+	19.66	66.1	+	+	+	PA	20.98	66.22	+	20.05	65.98	+	PA	11	c
2017	5551	Infant formula with probiotics (2.4 x 10 ⁵ CFU/g)	+	19.64	66.05	+	+	+	PA	20.31	66.62	+	20.51	64.9	+	PA	11	c
2017	5552	Infant formula with probiotics (3.0 x 10 ⁵ CFU/g)	+	19.64	66.16	+	+	+	PA	19.86	66.52	+	19.45	66.05	+	PA	11	c
2017	5553	Infant formula with probiotics (1.4 x 10 ⁷ CFU/g)	+	20.02	66.16	+	+	+	PA	21.56	66.21	+	20.29	66.41	+	PA	11	c
2017	5554	Infant formula with probiotics (1.0 x 10 ⁷ CFU/g)	+	20.4	65.8	+	+	+	PA	21.11	66.37	+	21.66	66.29	+	PA	11	c
2017	5555	Infant formula with probiotics (6.7 x 10 ⁶ CFU/g)	+	20.52	66.13	+	+	+	PA	20.61	65.61	+	23.42	64.53	+	PA	11	c
2017	7875	Infant formula with probiotics (<2 x 10 ³ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	11	c
2017	7887	Infant formula with probiotics (3.0 x 10 ⁵ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	11	c
2017	7888	Infant formula with probiotics (<2.0 x 10 ³ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	11	c
2017	7889	Infant formula with probiotics (8.0 x 10 ⁴ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	11	c
2017	7890	Infant formula with probiotics (<2.0 x 10 ³ CFU/g)	-	0	0	-	-	-	NA	0	0	-	35.54/0/0	64.28/0/0	+/-/-	PD	11	c
2017	7891	Infant formula with probiotics (1.9 x 10 ⁵ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	11	c
2017	7892	Infant formula with probiotics (8.6 x 10 ⁵ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	11	c
2017	7893	Infant formula with probiotics (4.2 x 10 ⁵ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	11	c
2017	7894	Infant formula with probiotics (8.0 x 10 ⁶ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	11	c

PET FOOD (SPECIFIC PROTOCOL 6) (375 g sample size)																		
Year of analyse	Sample N°	Product	Reference method: ISO 6579*	Alternative method: GENE-UP® Salmonella													Category	Type
				BPW 1/6 for 20h at 37°C														
				PCR initial validation						PCR extension								
				PCR result			Confirmation final result	Final result 20h	Agreement 20h	Multi dose kit			Unit dose kit			Agreement Multi Dose/Unit Dose		
Cp	Tm	Result	Cp	Tm	Result	Cp				Tm	Result							
2016	6458	Sausage for dog	+	23.6	66.72	+	+	+	PA	23.33	66.41	+	24.1	66.61	+	PA	12	a
2016	6459	Sausage for dog	+	22.65	66.48	+	+	+	PA	21.74	66.5	+	22.52	66.27	+	PA	12	a
2016	6460	Pâté for dog (poultry/carrots)	+	21.79	66.81	+	+	+	PA	21.47	66.58	+	21.54	66.58	+	PA	12	a
2016	6461	Pâté for dog (fish/carrots)	+	23.1	66.25	+	+	+	PA	23.01	66.12	+	21.98	66.16	+	PA	12	a
2016	6462	Pâté for cat (beef)	+	22.54	66.71	+	+	+	PA	21.89	66.06	+	21.23	66.35	+	PA	12	a
2016	6463	Pâté for cat (salmon)	+	23.76	66.69	+	+	+	PA	23.06	66.09	+	23.15	66.13	+	PA	12	a
2017	8575	Sausage for dog	+	21.43	56.5	+	+	+	PA	23.15	56.74	+	22.34	56.57	+	PA	12	a
2017	8576	Sausage for dog	+	22.53	65.96	+	+	+	PA	23.22	66.17	+	23.01	66.18	+	PA	12	a
2017	8577	Sausage for dog	+	22.46	65.88	+	+	+	PA	23.21	66.11	+	22.76	66.41	+	PA	12	a
2017	8578	Pâté for dog (beef)	+	22.26	56.27	+	+	+	PA	23.62	56.6	+	23.07	56.67	+	PA	12	a
2017	8579	Pâté for cat (beef)	+	21.5	65.94	+	+	+	PA	22.98	66.26	+	22.83	66.45	+	PA	12	a
2017	8580	Pâté for cat (chicken)	+	22.33	66.09	+	+	+	PA	24.29	66.5	+	23.07	66.56	+	PA	12	a
2017	8581	Pâté for cat (salmon)	+	22.53	56.45	+	+	+	PA	23.84	56.87	+	22.9	56.41	+	PA	12	a
2017	8582	Pâté for dog (duck/vegetables)	+	20.85	66.54	+	+	+	PA	21.74	66.47	+	20.88	66.46	+	PA	12	a
2017	8583	Pâté for dog (beef/carrots)	+	22.49	65.96	+	+	+	PA	23.09	66.21	+	22.61	66.27	+	PA	12	a
2017	8584	Pâté for dog (poultry)	+	20.98	56.41	+	+	+	PA	22.08	56.75	+	21.83	56.55	+	PA	12	a
2017	9526	Pâté for cat (beef)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	a
2017	9527	Pâté for cat (salmon)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	a
2017	9528	Pâté for cat (chicken)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	a
2017	9529	Sausage for dog	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	a
2017	9573	Pâté for dog (beef)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	a
2017	9574	Pâté for dog (beef/vegetables)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	a
2017	9575	Pâté for dog (lamb/vegetables)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	a
2017	9576	Pâté for dog poultry/liver/vegetables)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	a
2017	9577	Pâté for dog (poultry)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	a
2017	9578	Pâté for cat (salmon/trout)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	a
2017	9579	Pâté for cat (rabbit/liver/vegetables)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	a
2017	9580	Pâté for cat (poultry/kidney)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	a
2017	9581	Sausage for dog	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	a
2017	9582	Sausage for dog	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	a
2017	9583	Sausage for dog	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	a
2016	6419	Pellets for dog (beef/vegetables)	+	23.44	66.24	+	+	+	PA	23.05	66.69	+	23.35	65.93	+	PA	12	b
2016	6420	Pellets for dog (beef)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	b
2016	6421	Pellets for dog (beef)	+	29.55	65.8	+	+	+	PA	29.64	66.1	+	29.57	65.67	+	PA	12	b
2016	6422	Pellets for cat (rabbit/poultry/vegetables/cereals)	+	0	0	-	-	-	ND	0	0	-	0	0	-	NA	12	b
2016	6423	Pellets for cat (salmon/tuna/vegetables)	+	28.88	65.77	+	+	+	PA	28.58	66.02	+	29.08	65.69	+	PA	12	b
2016	6424	Pellets for cat (liver)	+	0	0	-	-	-	ND	0	0	-	0	0	-	NA	12	b
2017	8514	Bird food	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	b
2017	8515	Rodent food	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	b
2017	8516	Rabbit food	-	0/0/0	0/0/0	-/-/-	+	-	NA	0	0	-	0	0	-	NA	12	b
2017	8517	Guinea pig food	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	b
2017	8518	Pellets for dog	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	b
2017	8519	Pellets for dog	-	24.61	66.09	+	+	+	PD	23.76	66.01	+	23.83	66.21	+	PA	12	b
2017	8520	Pellets for dog (poultry, cereals, vegetables)	+	0	0	-	-	-	ND	0	0	-	0	0	-	NA	12	b
2017	8521	Pellets for dog	-	24.29	66.65	+	+	+	PD	24.06	66.17	+	23.74	66.2	+	PA	12	b

* Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

PET FOOD (SPECIFIC PROTOCOL 6) (375 g sample size)																		
Year of analyse	Sample N°	Product	Reference method: ISO 6579 ⁺	Alternative method: GENE-UP® Salmonella													Category	Type
				BPW 1/6 for 20h at 37°C														
				PCR initial validation						PCR extension								
				PCR result			Confirmation final result	Final result 20h	Agreement 20h	Multi dose kit			Unit dose kit			Agreement Multi Dose/Unit Dose		
				Cp	Tm	Result				Cp	Tm	Result	Cp	Tm	Result			
2017	8522	Pellets for cat (beef, poultry, vegetables)	+	0	0	-	-	-	ND	0	0	-	0	0	-	NA	12	b
2017	8523	Pellets for cat (tuna, salmon, cereals, vegetables)	+	0	0	-	-	-	ND	0	0	-	0	0	-	NA	12	b
2017	8524	Pellets for cat (beef, poultry, vegetables)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	b
2017	9120	Pellets for dog (salmon/oat)	+	22.13	66.67	+	+	+	PA	22.16	66.38	+	23.82	66.7	+	PA	12	b
2017	9121	Pellets for cat (salmon/barley)	-	21.52	66.19	+	+	+	PD	21.52	66.48	+	22.12	66.16	+	PA	12	b
2017	9122	Pellets for dog (poultry/barley)	+	0	0	-	-	-	ND	0	0	-	0	0	-	NA	12	b
2017	9123	Pellets for dog (chicken/rice)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	b
2017	9124	Pellets for dog (chicken/vegetables/rice)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	b
2017	9125	Pellets for dog (beef)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	b
2017	9523	Bird food	+	33.3	66.01	+	+	+	PA	33.22	66.65	+	33.12	66.22	+	PA	12	b
2017	9524	Rabbit food	+	36.6	56.78	+	+	+	PA	36.09	57.29	+	36.22	55.89	+	PA	12	b
2017	9525	Rodent food	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	b
2017	9595	Pellets for dog (beef)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	b
2017	9641	Pellets for dog (beef)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	b
2017	9642	Pellets for dog (beef)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	b
2017	9643	Pellets for cat (chicken)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	b

PET FOOD (ISO PROTOCOL) (375 g sample size)																		
Year of analyse	Sample N°	Product	Reference method: ISO 6579*	Alternative method: GENE-UP Salmonella													Category	Type
				BPW 1/10 for 20h at 37°C														
				PCR initial validation						PCR extension								
				PCR result			Confirmation final result	Final result 20h	Agreement 20h	Multi dose kit			Unit dose kit			Agreement Multi Dose/Unit Dose		
Cp	Tm	Result	Cp	Tm	Result	Cp				Tm	Result							
2016	6458	Sausage for dog	+	26.44	66.04	+	+	+	PA	26.1	66.44	+	27.31	66.65	+	PA	12	a
2016	6459	Sausage for dog	+	22.6	66.63	+	+	+	PA	22.52	66.06	+	21.8	66.21	+	PA	12	a
2016	6460	Pâté for dog (poultry/carrots)	+	22.16	66.52	+	+	+	PA	21.59	66.21	+	20.86	66.18	+	PA	12	a
2016	6461	Pâté for dog (fish/carrots)	+	23.8	66.61	+	+	+	PA	23.48	66.15	+	22.94	66.19	+	PA	12	a
2016	6462	Pâté for cat (beef)	+	22.9	66.69	+	+	+	PA	23	66.11	+	21.7	66.03	+	PA	12	a
2016	6463	Pâté for cat (salmon)	+	22.83	66.43	+	+	+	PA	22.28	66.17	+	21.59	66.16	+	PA	12	a
2017	8575	Sausage for dog	+	22.2	56.26	+	+	+	PA	23.22	56.56	+	22.96	56.51	+	PA	12	a
2017	8576	Sausage for dog	+	21.25	66.8	+	+	+	PA	20.61	66.61	+	19.6	66.17	+	PA	12	a
2017	8577	Sausage for dog	+	20.54	66.26	+	+	+	PA	22.55	66.39	+	23.07	66.84	+	PA	12	a
2017	8578	Pâté for dog (beef)	+	22.81	56.61	+	+	+	PA	22.16	66.19	+	21.46	66.38	+	PA	12	a
2017	8579	Pâté for cat (beef)	+	22.04	66.54	+	+	+	PA	24.14	56.82	+	22.76	56.7	+	PA	12	a
2017	8580	Pâté for cat (chicken)	+	21.09	66.04	+	+	+	PA	21.97	66.24	+	20.64	66.32	+	PA	12	a
2017	8581	Pâté for cat (salmon)	+	22.93	56.72	+	+	+	PA	24.14	56.7	+	22.22	56.21	+	PA	12	a
2017	8582	Pâté for dog (duck/vegetables)	+	21.01	66.29	+	+	+	PA	21.34	66.26	+	20.49	66.62	+	PA	12	a
2017	8583	Pâté for dog (beef/carrots)	+	23.1	66.07	+	+	+	PA	23.81	65.91	+	22.54	66.24	+	PA	12	a
2017	8584	Pâté for dog (poultry)	+	21.54	56.86	+	+	+	PA	21.94	56.65	+	22.14	56.33	+	PA	12	a
2017	9526	Pâté for cat (beef)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	a
2017	9527	Pâté for cat (salmon)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	a
2017	9528	Pâté for cat (chicken)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	a
2017	9529	Sausage for dog	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	a
2017	9573	Pâté for dog (beef)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	a
2017	9574	Pâté for dog (beef/vegetables)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	a
2017	9575	Pâté for dog (lamb/vegetables)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	a
2017	9576	Pâté for dog poultry/liver/vegetables)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	a
2017	9577	Pâté for dog (poultry)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	a
2017	9578	Pâté for cat (salmon/trout)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	a
2017	9579	Pâté for cat (rabbit/liver/vegetables)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	a
2017	9580	Pâté for cat (poultry/kidney)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	a
2017	9581	Sausage for dog	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	a
2017	9582	Sausage for dog	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	a
2017	9583	Sausage for dog	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	a
2016	6419	Pellets for dog (beef/vegetables)	+	23.08	66.45	+	+	+	PA	23.54	66.16	+	29.83	66.17	+	PA	12	b
2016	6420	Pellets for dog (beef)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	b
2016	6421	Pellets for dog (beef)	+	30.3	66.09	+	+	+	PA	30.49	66.24	+	28.73	65.85	+	PA	12	b
2016	6422	Pellets for cat (rabbit/poultry/vegetables/cereals)	+	28.13	65.97	+	+	+	PA	29.22	66.1	+	24.08	66.1	+	PA	12	b
2016	6423	Pellets for cat (salmon/tuna/vegetables)	+	24.87	66.03	+	+	+	PA	25.02	66.18	+	24.08	66.11	+	PA	12	b
2016	6424	Pellets for cat (liver)	+	24.95	66.06	+	+	+	PA	24.32	65.98	+	36.01	65.73	+	PA	12	b
2017	8514	Bird food	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	b
2017	8515	Rodent food	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	b
2017	8516	Rabbit food	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	b
2017	8517	Guinea pig food	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	b
2017	8518	Pellets for dog	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	b
2017	8519	Pellets for dog	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	b
2017	8520	Pellets for dog (poultry, cereals, vegetables)	+	24.61	65.97	+	+	+	PA	25.9	66.22	+	24.59	66.06	+	PA	12	b

* Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

PET FOOD (ISO PROTOCOL) (375 g sample size)																		
Year of analyse	Sample N°	Product	Reference method: ISO 6579♦	Alternative method: GENE-UP Salmonella													Category	Type
				BPW 1/10 for 20h at 37°C														
				PCR initial validation						PCR extension								
				PCR result			Confirmation final result	Final result 20h	Agreement 20h	Multi dose kit			Unit dose kit			Agreement Multi Dose/Unit Dose		
Cp	Tm	Result	Cp	Tm	Result	Cp				Tm	Result							
2017	8521	Pellets for dog	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	b
2017	8522	Pellets for cat (beef, poultry, vegetables)	+	22.94	66.26	+	+	+	PA	22.63	66.21	+	23.17	65.58	+	PA	12	b
2017	8523	Pellets for cat (tuna, salmon, cereals, vegetables)	+	26.11	66.32	+	+	+	PA	26.83	66.1	+	26.3	65.99	+	PA	12	b
2017	8524	Pellets for cat (beef, poultry, vegetables)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	b
2017	9118	Pellets for dog (poultry/rice/cereals)	+	23.57	66.49	+	+	+	PA	23.79	66.47	+	23.95	66	+	PA	12	b
2017	9119	Pellets for cat (poultry/vegetables/milk)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	b
2017	9120	Pellets for dog (salmon/oat)	+	29.07	65.85	+	+	+	PA	29.31	66.55	+	31.26	66	+	PA	12	b
2017	9121	Pellets for cat (salmon/barley)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	b
2017	9122	Pellets for dog (poultry/barley)	+	22.33	66.26	+	+	+	PA	22.76	66.34	+	21.95	66.22	+	PA	12	b
2017	9123	Pellets for dog (chicken/rice)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	b
2017	9124	Pellets for dog (chicken/vegetables/rice)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	b
2017	9125	Pellets for dog (beef)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	b
2017	9521	Rabbit food	+	36.38	66	+	+	+	PA	0	0	-	36.8	66.04	+	PD	12	b
2017	9522	Guinea pig food	+	0/0/35.58	0/0/66.15	-/-/+	-	-	ND	35.72	67.05	+	0	0	-	ND	12	b
2017	9523	Bird food	+	32.72	66.19	+	+	+	PA	32.97	66.84	+	32.78	66.1	+	PA	12	b
2017	9524	Rabbit food	+	0/0/0	0/0/0	-/-/-	+	-	ND	0	0	-	0	0	-	NA	12	b
2017	9525	Rodent food	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	b
2017	9595	Pellets for dog (beef)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	b
2017	9622	Pellets for cat (tuna, salmon, cereals, vegetables)	+	21.6	66.73	+	+	+	PA	21.79	66.53	+	21.17	65.62	+	PA	12	b
2017	9623	Pellets for dog (beef)	+	21.78	56.47	+	+	+	PA	22.6	56.62	+	22.06	56.3	+	PA	12	b

MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITHOUT PROBIOTICS INCLUDING INGREDIENTS (GENERAL PROTOCOL) (25 g sample size)																		
Year of analyse	Sample N°	Product	Reference method : ISO 6579-1*	Alternative method: GENE-UP Salmonella													Category	Type
				BPW for 18h at 37°C														
				PCR initial validation						PCR extension								
				PCR result			Confirmation final result	Final result 20h	Agreement 20h	Multi dose kit			Unit dose kit			Agreement Multi Dose/Unit Dose		
Cp	Tm	Result	Cp	Tm	Result	Cp				Tm	Result							
2018	4643	Skim milk powder	+	19.82	66.11	+	+	+	PA	22.16	66.01	+	22.9	66.11	+	PA	13	a
2018	4644	Skim milk powder	+	33.79	65.6	+	+	+	PA	34.69	65.92	+	33.58	65.14	+	PA	13	a
2018	4645	Skim milk powder	+	21.99	65.8	+	+	+	PA	23.72	66.07	+	24.06	65.37	+	PA	13	a
2018	4646	Skim milk powder	+	22.72	66.04	+	+	+	PA	23.74	66.04	+	24.03	65.32	+	PA	13	a
2018	4647	Whole milk powder	+	22.5	56.25	+	+	+	PA	23.32	56.62	+	22.97	55.71	+	PA	13	a
2018	4648	Skim milk powder	+	25.73	56.08	+	+	+	PA	26.5	56.57	+	26.21	55.45	+	PA	13	a
2018	4673	Infant formula without probiotics	+	20	66.04	+	+	+	PA	20.63	66.04	+	20.06	65.57	+	PA	13	a
2018	4674	Infant formula without probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	13	a
2018	4675	Infant formula without probiotics	+	22.17	66.1	+	+	+	PA	23.65	66.14	+	23.65	65.92	+	PA	13	a
2018	4676	Infant formula without probiotics	+	20.21	65.9	+	+	+	PA	21.57	66.07	+	20.85	65.74	+	PA	13	a
2018	4677	Infant formula without probiotics	+	30.02	56.21	+	+	+	PA	31.13	56.55	+	31.31	56.14	+	PA	13	a
2018	4678	Infant formula without probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	13	a
2018	6098	Whole milk powder	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	13	a
2018	6099	Skim milk powder	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	13	a
2018	6100	Milk powder	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	13	a
2018	6101	Skim milk powder	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	13	a
2018	6102	Skim milk powder	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	13	a
2018	6114	Infant formula without probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	13	a
2018	6115	Infant formula without probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	13	a
2018	6116	Infant formula without probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	13	a
2018	4649	Infant cereals without probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	13	b
2018	4650	Infant cereals without probiotics	+	22.97	66.17	+	+	+	PA	23.96	66.19	+	23.42	65.9	+	PA	13	b
2018	4651	Infant cereals without probiotics	+	20.61	66.11	+	+	+	PA	20.58	66.48	+	22.25	65.78	+	PA	13	b
2018	4652	Infant cereals without probiotics	+	20.63	65.71	+	+	+	PA	21.08	66.06	+	20.78	65.35	+	PA	13	b
2018	4653	Infant cereals without probiotics	+	25.82	65.76	+	+	+	PA	25.18	66	+	25.48	65.37	+	PA	13	b
2018	4654	Infant cereals without probiotics	+	22.83	65.79	+	+	+	PA	23.45	66.14	+	22.58	65.52	+	PA	13	b
2018	4655	Infant cereals without probiotics	+	22.3	65.77	+	+	+	PA	21.49	66.5	+	21.14	65.76	+	PA	13	b
2018	4656	Infant cereals without probiotics	+	22.94	65.67	+	+	+	PA	22.6	66.45	+	22.24	65.3	+	PA	13	b
2018	4657	Infant cereals without probiotics	+	20.08	65.61	+	+	+	PA	20.08	66.42	+	19.73	65.47	+	PA	13	b
2018	4658	Infant cereals without probiotics	+	23.84	65.97	+	+	+	PA	24.05	66.19	+	23.71	65.67	+	PA	13	b
2018	4659	Infant cereals without probiotics	+	20.85	65.67	+	+	+	PA	23.25	66.26	+	21.98	66.22	+	PA	13	b
2018	4660	Infant cereals without probiotics	+	24.87	65.97	+	+	+	PA	24.42	66.1	+	24.42	65.78	+	PA	13	b
2018	6103	Infant cereals without probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	13	b
2018	6104	Infant cereals without probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	13	b
2018	6105	Infant cereals without probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	13	b
2018	6117	Infant cereals without probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	13	b
2018	6118	Infant cereals without probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	13	b
2018	6119	Infant cereals without probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	13	b
2018	6120	Infant cereals without probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	13	b
2018	6121	Infant cereals without probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	13	b
2018	6122	Infant cereals without probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	13	b
2018	4661	Maltodextrin	+	22.04	66.18	+	+	+	PA	22.69	66.19	+	22.87	65.61	+	PA	13	c
2018	4662	Maltodextrin	+	22.24	66.07	+	+	+	PA	21.91	65.99	+	22.71	65.36	+	PA	13	c
2018	4663	Maltodextrin	+	21.74	66.1	+	+	+	PA	21.85	66.07	+	22.01	65.79	+	PA	13	c
2018	4664	Starch	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	13	c
2018	4665	Starch	+	30.23	65.87	+	+	+	PA	28.91	66.13	+	30.63	65.79	+	PA	13	c

* Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITHOUT PROBIOTICS INCLUDING INGREDIENTS (GENERAL PROTOCOL) (25 g sample size)																		
Year of analyse	Sample N°	Product	Reference method : ISO 6579-1*	Alternative method: GENE-UP Salmonella													Category	Type
				BPW for 18h at 37°C														
				PCR initial validation						PCR extension								
				PCR result			Confirmation final result	Final result 20h	Agreement 20h	Multi dose kit			Unit dose kit			Agreement Multi Dose/Unit Dose		
				Cp	Tm	Result				Cp	Tm	Result	Cp	Tm	Result			
2018	4666	Starch	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	13	c
2018	4667	Caseinate	+	21.91	65.82	+	+	+	PA	22.68	66.13	+	23.09	65.05	+	PA	13	c
2018	4668	Caseinate	+	22.91	65.63	+	+	+	PA	22.76	66.16	+	26.31	64.39	+	PA	13	c
2018	4669	Lactose	+	20.9	66.06	+	+	+	PA	22.01	66.09	+	21.18	65.86	+	PA	13	c
2018	4670	Lactose	+	21.86	65.7	+	+	+	PA	23.64	66.02	+	22.84	65.63	+	PA	13	c
2018	4671	Whey	+	22.07	65.89	+	+	+	PA	22.59	66.4	+	22.89	65.5	+	PA	13	c
2018	4672	Whey	+	28.66	66	+	+	+	PA	28.32	65.97	+	29.01	65.51	+	PA	13	c
2018	6106	Maltodextrin	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	13	c
2018	6107	Starch	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	13	c
2018	6108	Lactose	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	13	c
2018	6109	Starch	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	13	c
2018	6110	Starch	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	13	c
2018	6111	Caseinate	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	13	c
2018	6112	Whey	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	13	c
2018	6113	Whey	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	13	c

INFANT FORMULA AND INFANT CEREALS WITH PROBIOTICS (SPECIFIC PROTOCOL 7) (25 g sample size)																		
Year of analyse	Sample N°	Product	Reference method: ISO 6579-1♦ method	Alternative method: GENE-UP Salmonella												Category	Type	
				BPW + Novobiocin (10mg/L) for 18h at 37°C														
				PCR initial validation						PCR extension								
				PCR result			Confirmation final result	Final result 20h	Agreement 20h	Multi dose kit			Unit dose kit					Agreement Multi Dose/Unit Dose
Cp	Tm	Result	Cp	Tm	Result	Cp				Tm	Result							
2018	4679	Infant formula with probiotics (2.7 x 10 ⁵ CFU/g)	+	20.79	66.57	+	+	+	PA	19.93	66.46	+	20.98	66.55	+	PA	14	a
2018	4680	Infant formula with probiotics (1.6 x 10 ⁵ CFU/g)	+	20.93	66.3	+	+	+	PA	20.7	66.24	+	20.57	66.2	+	PA	14	a
2018	4681	Infant formula with probiotics (1.8 x 10 ⁴ CFU/g)	+	20.89	56.76	+	+	+	PA	20.62	56.86	+	20.48	56.31	+	PA	14	a
2018	4682	Infant formula with probiotics (6.7 x 10 ³ CFU/g)	+	21.56	66.59	+	+	+	PA	20.86	66.38	+	20.8	66.29	+	PA	14	a
2018	4683	Infant formula with probiotics (1.9 x 10 ⁴ CFU/g)	+	21.07	66.48	+	+	+	PA	21.14	66.33	+	20.76	66.16	+	PA	14	a
2018	4684	Infant formula with probiotics (4.6 x 10 ³ CFU/g)	+	20.56	66.52	+	+	+	PA	19.99	66.35	+	19.54	66.1	+	PA	14	a
2018	4685	Infant formula with probiotics (2.1 x 10 ⁴ CFU/g)	+	22.64	56.62	+	+	+	PA	22.28	56.6	+	22.46	55.93	+	PA	14	a
2018	4686	Infant formula with probiotics (1.8 x 10 ⁴ CFU/g)	+	21.86	56.82	+	+	+	PA	21	56.93	+	20.65	56.08	+	PA	14	a
2018	4687	Infant formula with probiotics (6.8 x 10 ⁵ CFU/g)	+	20.28	66.59	+	+	+	PA	20.18	66.4	+	19.95	65.69	+	PA	14	a
2018	4688	Infant formula with probiotics (7.0 x 10 ⁵ CFU/g)	+	19.58	66.19	+	+	+	PA	20.73	66.1	+	20.69	65.47	+	PA	14	a
2018	4689	Infant formula with probiotics (3.2 x 10 ⁶ CFU/g)	+	20.45	66.37	+	+	+	PA	19.56	66.05	+	19.87	65.95	+	PA	14	a
2018	4690	Infant formula with probiotics (3.0 x 10 ⁵ CFU/g)	+	19.98	66.23	+	+	+	PA	19.53	65.95	+	19.93	65.61	+	PA	14	a
2018	4691	Infant formula with probiotics (3.0 x 10 ⁴ CFU/g)	+	20.3	66.32	+	+	+	PA	19.89	66.54	+	20.26	66.15	+	PA	14	a
2018	4692	Infant formula with probiotics (1.6 x 10 ⁶ CFU/g)	+	20.21	66.28	+	+	+	PA	20.03	66.56	+	19.81	65.9	+	PA	14	a
2018	4693	Infant formula with probiotics (6.0 x 10 ⁴ CFU/g)	-	20.08	66.13	+	+	+	PD	19.42	66.17	+	20.39	65.85	+	PA	14	a
2018	4694	Infant formula with probiotics (1.4 x 10 ⁴ CFU/g)	+	20.3	66.47	+	+	+	PA	19.9	66.27	+	20.63	66.2	+	PA	14	a
2018	4695	Infant formula with probiotics (2.5 x 10 ⁵ CFU/g)	+	19.96	66.44	+	+	+	PA	19.19	66.43	+	19.51	65.8	+	PA	14	a
2018	6123	Infant formula with probiotics (9.2 x 10 ⁶ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	a
2018	6124	Infant formula with probiotics (1.1 x 10 ⁶ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	a
2018	6125	Infant formula with probiotics (9.7 x 10 ⁶ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	a
2018	6126	Infant formula with probiotics (2.7 x 10 ⁶ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	a
2018	6127	Infant formula with probiotics (4.5 x 10 ⁶ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	a
2018	6128	Infant formula with probiotics (6.1 x 10 ⁶ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	a
2018	6129	Infant formula with probiotics (<100 CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	a
2018	6130	Infant formula with probiotics (<100 CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	a
2018	6131	Infant formula with probiotics (9.7 x 10 ⁶ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	a
2018	6132	Infant formula with probiotics (<100 CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	a
2018	6133	Infant formula with probiotics (8.5 x 10 ⁵ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	a
2018	6134	Infant formula with probiotics (6.6 x 10 ⁵ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	a
2018	6135	Infant formula with probiotics (8.4 x 10 ⁵ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	a
2018	6136	Infant formula with probiotics (1.9 x 10 ⁶ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	a
2018	6137	Infant formula with probiotics (1.3 x 10 ⁶ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	a
2018	4696	Infant cereals with probiotics (8.8 x 10 ⁴ CFU/g)	+	21.58	65.29	+	+	+	PA	24.22	65.71	+	21.97	66.16	+	PA	14	b
2018	4697	Infant cereals with probiotics (2.5 x 10 ⁵ CFU/g)	-	22.48	65.57	+	+	+	PD	24.87	65.61	+	21.51	65.78	+	PA	14	b
2018	4698	Infant cereals with probiotics (1.1 x 10 ⁵ CFU/g)	+	30.84	65.72	+	+	+	PA	31.08	65.68	+	26.91	65.37	+	PA	14	b
2018	4699	Infant cereals with probiotics (2.1 x 10 ⁴ CFU/g)	+	38.42	65.8	+	+	+	PA	28.08	65.66	+	40	65.26	+	PA	14	b
2018	4700	Infant cereals with probiotics (6.7 x 10 ⁵ CFU/g)	+	24.24	66.11	+	+	+	PA	25.17	65.61	+	21.63	65.91	+	PA	14	b
2018	4701	Infant cereals with probiotics (5.6 x 10 ⁵ CFU/g)	+	22.02	66.14	+	+	+	PA	23.66	65.77	+	20.76	65.99	+	PA	14	b
2018	4702	Infant cereals with probiotics (7.8 x 10 ⁵ CFU/g)	+	22.8	65.91	+	+	+	PA	23.51	65.61	+	21.22	65.91	+	PA	14	b
2018	4703	Infant cereals with probiotics (1.3 x 10 ⁴ CFU/g)	+	21.74	66.3	+	+	+	PA	24.72	65.97	+	21.28	66.03	+	PA	14	b
2018	4704	Infant cereals with probiotics (3.1 x 10 ⁴ CFU/g)	+	24.11	65.86	+	+	+	PA	25.75	66.11	+	34.81	65.13	+	PA	14	b
2018	4705	Infant cereals with probiotics (3.6 x 10 ⁴ CFU/g)	+	21.29	65.84	+	+	+	PA	22.58	65.72	+	20.48	65.6	+	PA	14	b
2018	4706	Infant cereals with probiotics (4.0 x 10 ⁴ CFU/g)	+	21.78	65.95	+	+	+	PA	22.73	65.89	+	20.47	65.84	+	PA	14	b
2018	4707	Infant cereals with probiotics (8.3 x 10 ³ CFU/g)	+	22.65	65.82	+	+	+	PA	23.86	65.84	+	20.98	65.49	+	PA	14	b
2018	4708	Infant cereals with probiotics (1.6 x 10 ⁴ CFU/g)	-	28.87	65.58	+	+	+	PD	29.33	65.72	+	0	65.4	+	PA	14	b
2018	4709	Infant cereals with probiotics (8.0 x 10 ³ CFU/g)	+	23.54	65.82	+	+	+	PA	25.56	65.75	+	22.56	65.42	+	PA	14	b

♦ Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

INFANT FORMULA AND INFANT CEREALS WITH PROBIOTICS (SPECIFIC PROTOCOL 7) (25 g sample size)																		
Year of analyse	Sample N°	Product	Reference method: ISO 6579-1* method	Alternative method: GENE-UP Salmonella BPW + Novobiocin (10mg/L) for 18h at 37°C												Category	Type	
				PCR initial validation						PCR extension								
				PCR result			Confirmation final result	Final result 20h	Agreement 20h	Multi dose kit			Unit dose kit					Agreement Multi Dose/Unit Dose
				Cp	Tm	Result				Cp	Tm	Result	Cp	Tm	Result			
2018	4710	Infant cereals with probiotics (3.6 x 10 ⁴ CFU/g)	+	0	0	-	-	-	ND	0	0	-	0	0	-	NA	14	b
2018	4711	Infant cereals with probiotics (1.8 x 10 ⁴ CFU/g)	-	25.99	65.94	+	+	+	PD	27.14	65.98	+	24.6	66	+	PA	14	b
2018	4712	Infant cereals with probiotics (1.4 x 10 ⁴ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	b
2018	6138	Infant cereals with probiotics (7.0 x 10 ⁵ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	b
2018	6139	Infant cereals with probiotics (2.3 x 10 ⁵ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	b
2018	6140	Infant cereals with probiotics (1.6 x 10 ⁴ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	b
2018	6141	Infant cereals with probiotics (4.9 x 10 ⁴ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	b
2018	6142	Infant cereals with probiotics (2.7 x 10 ⁵ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	b
2018	6143	Infant cereals with probiotics (3.8 x 10 ⁴ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	b
2018	6144	Infant cereals with probiotics (2.0 x 10 ⁴ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	b
2018	6145	Infant cereals with probiotics (3.3 x 10 ⁵ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	b
2018	6146	Infant cereals with probiotics (5.0 x 10 ⁵ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0/0*	0/0*	i/-*	NA	14	b
2018	6147	Infant cereals with probiotics (1.2 x 10 ⁶ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	b
2018	6148	Infant cereals with probiotics (4.9 x 10 ⁴ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	b
2018	6149	Infant cereals with probiotics (2.9 x 10 ⁴ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	b
2018	6150	Infant cereals with probiotics (8.3 x 10 ³ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	b
2018	6151	Infant cereals with probiotics (5.6 x 10 ⁵ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	b

MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITH OR WITHOUT PROBIOTICS INCLUDING INGREDIENTS (SPECIFIC PROTOCOL 8 or 9) (375 g sample size)																		
Sample N°	Product	Reference method: ISO 6579-1* Result	Alternative method : GENE-UP <i>Salmonella</i>														Category	Type
			BPW + novobiocin 10mg/L (1/6 dilution) OR pre-warmed BPW (1/10 dilution) for 20h at 37°C															
			PCR initial validation						PCR extension									
			PCR result			Confirmation final result	Final result 20h	Agreement 20h	Multi dose kit			Unit dose kit			Agreement Multi Dose/ Unit Dose			
Cp	Tm	Result	Cp	Tm	Result				Cp	Tm	Result							
	2640	Skim milk powder	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	a
	2641	Skim milk powder	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	a
	2642	Skim milk powder	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	a
	2643	Half-skim milk powder	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	a
	2644	Infant formula without probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	a
	2645	Infant formula without probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	a
	2646	Infant formula without probiotics	-	0	0	-	-	-	NA	0/0	0/0	i/-	0/0*/0****	0/0*/0****	i/i*/-****	NA	15	a
	2647	Infant cereals without probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	a
	2648	Infant cereals without probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	a
	2649	Infant cereals without probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	a
	3751	Infant cereals without probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	a
	3752	Infant cereals without probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	a
	3753	Infant cereals without probiotics	-	0	0	-	-	-	NA	0	0	-	0/0*	0/0*	i/-*	NA	15	a
	3797	Infant formula without probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	a
	4878	Skim milk powder	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	a
	4879	Skim milk powder	+	21.26	65.44	+	+	+	PA	19.4	65.86	+	24.53	64.83	+	PA	15	a
	4880	Skim milk powder	+	26.75	65.96	+	+	+	PA	25.09	66.18	+	32.87	64.28	+	PA	15	a
	4881	Half-skim milk powder	+	20.6	66.01	+	+	+	PA	20.29	66.23	+	22.62	65.32	+	PA	15	a
	4882	Whole milk powder	+	19.71	66.17	+	+	+	PA	20.23	66.35	+	22.21	65.63	+	PA	15	a
	4883	Skim milk powder	+	21.46	65.82	+	+	+	PA	21.41	66.3	+	24.13	65.37	+	PA	15	a
	4884	Infant formula without probiotics	+	19.95	65.93	+	+	+	PA	18.99	66.22	+	20.16	65.7	+	PA	15	a
	4885	Infant formula without probiotics	+	25.64	66.58	+	+	+	PA	24.05	66.37	+	23.8	66.54	+	PA	15	a
	4886	Infant formula without probiotics	+	22.44	65.93	+	+	+	PA	22.44	66.17	+	22.12	65.99	+	PA	15	a
	4887	Infant formula without probiotics	-	20.26	65.56	+	+	+	PD	19.77	65.94	+	20.51	65.78	+	PA	15	a
	4888	Infant formula without probiotics	+	29.05	65.41	+	+	+	PA	29.21	66.02	+	29.67	65.41	+	PA	15	a
	4889	Infant formula without probiotics	+	21.75	65.68	+	+	+	PA	21.42	65.94	+	21.99	65.47	+	PA	15	a
	4890	Infant cereals without probiotics	+	23.64	65.54	+	+	+	PA	22.86	65.97	+	23.6	65.86	+	PA	15	a
	4891	Infant cereals without probiotics	+	26.45	65.66	+	+	+	PA	23.12	66.21	+	23.97	65.67	+	PA	15	a
	4892	Infant cereals without probiotics	+	20.15	65.51	+	+	+	PA	19.56	66.31	+	20.4	65.95	+	PA	15	a
	4893	Infant cereals without probiotics	+	20.83	66.18	+	+	+	PA	20.59	66.27	+	20.15	65.68	+	PA	15	a
	4894	Infant cereals without probiotics	+	20.25	65.92	+	+	+	PA	22.93	66.62	+	18.91	65.14	+	PA	15	a
	4895	Infant cereals without probiotics	+	21.42	65.95	+	+	+	PA	22.13	66.16	+	18.96	65.04	+	PA	15	a
	2864	Infant cereals with probiotics (2.9 x 10 ⁵ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	b
	2865	Infant cereals with probiotics (4.8 x 10 ⁴ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	b
	2866	Infant cereals with probiotics (1.2 x 10 ⁷ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	b
	2867	Infant formula with probiotics (1.6 x 10 ⁶ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	b
	2868	Infant formula with probiotics (1.5 x 10 ⁶ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	b
	3754	Infant cereals with probiotics (2.5 x 10 ⁵ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	b
	3755	Infant cereals with probiotics (1.4 x 10 ⁶ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	b
	3756	Infant cereals with probiotics (2.2 x 10 ⁵ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	b
	3757	Infant cereals with probiotics (4.8 x 10 ⁴ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	b
	3758	Infant cereals with probiotics (2.9 x 10 ⁵ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	b
	3798	Infant formula with probiotics (1.6 x 10 ⁶ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	b
	3799	Infant formula with probiotics (7.2 x 10 ⁴ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0/0*	0/0*	i/-*	NA	15	b

* Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITH OR WITHOUT PROBIOTICS INCLUDING INGREDIENTS (SPECIFIC PROTOCOL 8 or 9) (375 g sample size)																		
	Sample N°	Product	Reference method: ISO 6579-1* Result	Alternative method : GENE-UP <i>Salmonella</i>													Category	Type
				BPW + novobiocin 10mg/L (1/6 dilution) OR pre-warmed BPW (1/10 dilution) for 20h at 37°C														
				PCR initial validation						PCR extension								
				PCR result			Confirmation final result	Final result 20h	Agreement 20h	Multi dose kit			Unit dose kit			Agreement Multi Dose/ Unit Dose		
Cp	Tm	Result	Cp	Tm	Result	Cp				Tm	Result							
	3800	Infant formula with probiotics (6.0 x 10 ⁴ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	b
	3801	Infant formula with probiotics (1.5 x 10 ⁶ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	b
	3802	Infant formula with probiotics (4.7 x 10 ⁵ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	b
	4896	Infant cereals with probiotics (8.0 x 10 ³ CFU/g)	+	20.77	66.28	+	+	+	PA	19.07	66.23	+	20.6	66.16	+	PA	15	b
	4897	Infant cereals with probiotics (1.2 x 10 ⁴ CFU/g)	+	22.9	65.94	+	+	+	PA	23.43	66.01	+	22.22	65.81	+	PA	15	b
	4898	Infant cereals with probiotics (1.3 x 10 ⁴ CFU/g)	+	20.93	66.27	+	+	+	PA	21.67	66.28	+	20.05	65.91	+	PA	15	b
	4899	Infant cereals with probiotics (8.4 x 10 ³ CFU/g)	-	21.12	66.21	+	+	+	PD	20.08	66.03	+	20.07	65.95	+	PA	15	b
	4900	Infant cereals with probiotics (7.9 x 10 ³ CFU/g)	+	21.62	66.16	+	+	+	PA	21.3	65.95	+	20.64	65.89	+	PA	15	b
	4901	Infant cereals with probiotics (1.2 x 10 ⁴ CFU/g)	+	0	0	-	-	-	ND	0	0	-	0	0	-	NA	15	b
	4902	Infant cereals with probiotics (9.1 x 10 ³ CFU/g)	+	20.91	65.99	+	+	+	PA	21.24	65.86	+	20.06	66.04	+	PA	15	b
	4903	Infant cereals with probiotics (5.8 x 10 ³ CFU/g)	+	21.32	66.29	+	+	+	PA	21.06	65.98	+	20.76	66.27	+	PA	15	b
	4904	Infant formula with probiotics (4.5 x 10 ⁵ CFU/g)	+	20.27	66.24	+	+	+	PA	20.42	66.31	+	20.13	65.85	+	PA	15	b
	4905	Infant formula with probiotics (3.2 x 10 ⁵ CFU/g)	-	20.47	66	+	+	+	PD	20.27	66.16	+	19.93	66.04	+	PA	15	b
	4906	Infant formula with probiotics (3.0 x 10 ⁵ CFU/g)	+	20.76	66.02	+	+	+	PA	20.76	66.19	+	20.6	66.22	+	PA	15	b
	4907	Infant formula with probiotics (3.7 x 10 ⁴ CFU/g)	+	22.57	66	+	+	+	PA	21.61	65.9	+	21.7	66.04	+	PA	15	b
	4908	Infant formula with probiotics (4.2 x 10 ⁴ CFU/g)	+	30.09	65.72	+	+	+	PA	29.8	65.86	+	30.06	65.48	+	PA	15	b
	4909	Infant formula with probiotics (5.1 x 10 ⁴ CFU/g)	+	21.66	66.13	+	+	+	PA	20.56	66.62	+	20.54	65.14	+	PA	15	b
	4910	Infant formula with probiotics (3.1 x 10 ⁵ CFU/g)	-	20.87	65.94	+	+	+	PD	20.93	66.08	+	20.41	65.94	+	PA	15	b
	4911	Infant formula with probiotics (7.1 x 10 ⁶ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	b
	2869	Infant formula with probiotics (9.6 x 10 ⁶ CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
	2870	Starch	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
	2871	Whey	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
	2872	Caseinates	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
	2873	Lactose	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
	3739	Caseinate	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
	3631	Starch	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
	3632	Starch	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
	3633	Lactose	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
	3634	Starch	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
	3635	Whey	-	0	0	-	-	-	NA	0	0	-	35.08/0/37.37	65.49/65.24/64.7	+ / + / +	PD	15	c
	3636	Starch	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
	3637	Maltodextrin	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
	3638	Maltodextrin	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
	3639	Maltodextrin	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
	3640	Maltodextrin	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
	3641	Starch	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
	3642	Starch	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
	3643	Starch	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
	3644	Lactose	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
	3645	Caseinate	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
	3803	Whey	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
	3804	Whey	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
	3805	Whey	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
	3806	Whey	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
	3807	Lactose	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
	3808	Lactose	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c

MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITH OR WITHOUT PROBIOTICS INCLUDING INGREDIENTS (SPECIFIC PROTOCOL 8 or 9) (375 g sample size)																				
	Sample N°	Product	Reference method: ISO 6579-1♦ Result	Alternative method : GENE-UP <i>Salmonella</i>													Category	Type		
				BPW + novobiocin 10mg/L (1/6 dilution) OR pre-warmed BPW (1/10 dilution) for 20h at 37°C																
				PCR initial validation						PCR extension										
				PCR result			Confirmation final result	Final result 20h	Agreement 20h	Multi dose kit			Unit dose kit			Agreement Multi Dose/ Unit Dose				
Cp	Tm	Result	Cp	Tm	Result	Cp				Tm	Result									
	3809	Lactose	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c		
	3810	Lactose	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c		
	3811	Starch	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c		
	3812	Starch	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c		
	3813	Maltodextrin	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c		
	3814	Maltodextrin	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c		
	3815	Maltodextrin	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c		
	3816	Maltodextrin	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c		
	4986	Maltodextrin	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c		
	4987	Whey	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c		
	4988	Caseine	+	26.15	66.03	+	+	+	PA	26.07	65.94	+	25.59	65.64	+	PA	15	c		
	4989	Lactose	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c		
	4990	Starch	+	21.06	66.2	+	+	+	PA	20.69	66	+	20.63	66.17	+	PA	15	c		
	4991	Caseinate	+	23.65	65.87	+	+	+	PA	23.99	65.83	+	24	65.29	+	PA	15	c		
	4992	Maltodextrin	+	31.91	65.99	+	+	+	PA	32.26	65.92	+	32.28	65.68	+	PA	15	c		
	4993	Starch	+	25.69	66.35	+	+	+	PA	25.88	66.24	+	25.27	66.57	+	PA	15	c		
	4994	Lactose	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c		
	4995	Whey	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c		
	4996	Caseine	-	0	0	-	-	-	NA	30.64/0/0	66.56/0/0	+/-/-	0	0	-	ND	15	c		
	4997	Maltodextrin	+	20.11	66.09	+	+	+	PA	18.96	65.64	+	19.74	66.02	+	PA	15	c		
	4998	Lactose	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c		
	4999	Whey	-	0	0	-	-	-	NA	27.12/33.71/33.29	66.17/65.96/66.34	+/+/-	33.47/32.63/32.81	65.8/65.72/65.45	+/+/-	PA	15	c		
	5000	Starch	+	29.56	65.93	+	+	+	PA	30.79	66.49	+	30.58	65.97	+	PA	15	c		
	5001	Lactose	+	24.55	66.23	+	+	+	PA	24.26	66.29	+	25.5	66.44	+	PA	15	c		
	5002	Maltodextrin	+	20.64	66.41	+	+	+	PA	21.87	66.72	+	21.7	66.72	+	PA	15	c		
	5003	Lactose	+	25.73	66.13	+	+	+	PA	26.45	66.4	+	26.46	66.2	+	PA	15	c		
	5004	Caseine	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c		
	5005	Starch	+	26.26	66.39	+	+	+	PA	26.44	66.66	+	27.18	66.78	+	PA	15	c		
	5006	Starch	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c		
	5007	Maltodextrin	+	20.69	66.4	+	+	+	PA	19.32	66.24	+	20.9	66.58	+	PA	15	c		
	5008	Lactose	+	25.12	65.61	+	+	+	PA	25.82	66.16	+	26.18	66.22	+	PA	15	c		
	5009	Caseinate	+	23.12	66.21	+	+	+	PA	23.2	66.2	+	24.03	65.56	+	PA	15	c		
	5010	Whey	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c		
	5011	Starch	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c		
	5012	Starch	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c		
	5013	Whey	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c		
	5014	Maltodextrin	+	22.87	66	+	+	+	PA	22.65	65.92	+	22.43	65.97	+	PA	15	c		
	5015	Caseine	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c		
	5016	Lactose	+	24.03	65.89	+	+	+	PA	23.47	65.79	+	22.98	65.83	+	PA	15	c		
	5017	Whey	+	24.48	66.06	+	+	+	PA	24.13	66	+	24.65	65.88	+	PA	15	c		
	5948	Starch	+	28.22	66.33	+	+	+	PA	28.78	66.52	+	28.29	66.36	+	PA	15	c		
	5949	Starch	+	24.16	66.11	+	+	+	PA	23.66	66.14	+	24.58	66.2	+	PA	15	c		
	5950	Starch	+	26.92	56.55	+	+	+	PA	27.11	57	+	26.78	56.26	+	PA	15	c		
	5951	Starch	+	26.05	66.27	+	+	+	PA	25.69	66.37	+	25.9	66.17	+	PA	15	c		
	5952	Starch	+	23.82	66.2	+	+	+	PA	23.93	66.19	+	23.74	65.88	+	PA	15	c		
	5953	Starch	+	26.72	66.23	+	+	+	PA	26.81	66.22	+	26.8	65.53	+	PA	15	c		

MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITH OR WITHOUT PROBIOTICS INCLUDING INGREDIENTS (SPECIFIC PROTOCOL 8 or 9) (375 g sample size)																		
	Sample N°	Product	Reference method: ISO 6579-1♦ Result	Alternative method : GENE-UP <i>Salmonella</i>													Category	Type
				BPW + novobiocin 10mg/L (1/6 dilution) OR pre-warmed BPW (1/10 dilution) for 20h at 37°C														
				PCR initial validation						PCR extension								
				PCR result			Confirmation final result	Final result 20h	Agreement 20h	Multi dose kit			Unit dose kit			Agreement		
				Cp	Tm	Result				Cp	Tm	Result	Cp	Tm	Result	Multi Dose/ Unit Dose		
	5954	Caseinate	+	23.77	56.05	+	+	+	PA	23.03	56.26	+	24.32	55.13	+	PA	15	c
	5955	Caseinate	+	24.21	66.21	+	+	+	PA	23.65	66.55	+	24.82	65.59	+	PA	15	c
	5956	Maltodextrin	+	26.91	66.12	+	+	+	PA	28	66.63	+	26.24	66.23	+	PA	15	c
	5957	Maltodextrin	+	24.69	65.9	+	+	+	PA	25.26	66.36	+	23.68	66.01	+	PA	15	c
	5958	Lactose	+	25.71	56.4	+	+	+	PA	25.59	56.96	+	25.44	56.19	+	PA	15	c
	5959	Lactose	+	23.22	65.91	+	+	+	PA	23.15	66.25	+	23.4	65.99	+	PA	15	c
	5960	Lactose	+	22.86	63.86	+	+	+	PA	24.3	66.22	+	24.02	65.83	+	PA	15	c
	5961	Lactose	+	23.43	65.87	+	+	+	PA	23.64	66.28	+	23.03	65.63	+	PA	15	c
	5962	Whey	+	32.75	55.77	+	+	+	PA	33.12	56.41	+	33.76	55.69	+	PA	15	c
	5963	Whey	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
	5964	Whey	+	29.24	66.15	+	+	+	PA	27.61	66.38	+	30.51	65.85	+	PA	15	c
	5965	Whey	+	32.14	65.89	+	+	+	PA	29.6	66.3	+	32.91	65.08	+	PA	15	c

Appendix 8 – Relative level of detection study: raw data (Extension study No 6, 2018)

Matrix : Raw milk

Strain : *Salmonella* Ohio Ad 1482

Aerobic mesophilic flora : 3.0.10⁸ CFU/g

N° sample	Level	Contamination level- (cfu/sample)	Reference method: ISO 6579-1*					Number positive samples/ Total	Alternative method : GENE-UP® Salmonella													Final result Multi Dose	Number positive samples/ Total Multi Dose	Final result Unit Dose	Number positive samples/ Total Unit Dose						
			RVS broth		MKTTn broth		Final result		PCR initial validation						PCR Extension						Confirmation result										
			XLD	ASAP	XLD	ASAP			PCR Result			Confirmation result	Final result	Number positive samples/ Total	Multi dose			Unit Dose													
									CP	Tm	Result				CP	Tm	Result	CP	Tm	Result											
1624	0	/	-	-	-	-	-	0/5	0	0	-	-	-	0/5	0	0	-	0	0	-	-	-	0/5	-	0/5						
1625			-	-	-	-	-		0	0	-	-	-		0	0	-	0	0	-	-	-									
1626			-	-	-	-	-		0	0	-	-	-		0	0	-	0	0	-	-	-									
1627			-	-	-	-	-		0	0	-	-	-		0	0	-	0	0	-	-	-									
1628			-	-	-	-	-		0	0	-	-	-		0	0	-	0	0	-	-	-									
1784	Low	1.3	-	-	-	-	-	11/20	0	0	-	-	-	8/20	0	0	-	0	0	-	-	-	9/20	-	11/20						
1785			-	-	+md/-	-	-		0	0	-	-	-		0	0	-	0	0	-	-	-									
1786			+M	+p	+M	+M	+		32.09	66.2	+	+	+		32.76	66.56	+	33.49	66.26	+	+	+									
1787			-	-	-	-	-		0	0	-	-	-		0	0	-	0	0	-	-	-									
1788			-	+md(2)/+	+M	+M	+		0/33.29/0	0/66.62/0	-/+/-	+	-		34.63	66.79	+	35.73	66.09	+	+	+									
1789			-	-	-	-	-		0	0	-	-	-		0	0	-	0	0	-	-	-									
1790			-	-	-	-	-		0	0	-	-	-		0	0	-	0	0	-	-	-									
1791			+M	+p	+M	+p	+		32.24	66.41	+	+	+		32.59	66.64	+	33.79	66.32	+	+	+									
1792			+M	+p	+M	+M	+		31.54	66.47	+	+	+		32.81	66.89	+	33.9	66.38	+	+	+									
1793			-	-	+md/-	-	-		0	0	-	-	-		0	0	-	0	0	-	-	-									
1794			-	-	-	-	-		0	0	-	-	-		0	0	-	0	0	-	-	-									
1795			-	-	-	-	-		0	0	-	-	-		0	0	-	0	0	-	-	-									
1796			+M	+M	+1/2	+M	+		32.44	66.42	+	+	+		32.03	66.42	+	34.04	66.16	+	+	+									
1797			-	+md/+	+md/-	+md/+	+		0/0/33.86	0/0/66.38	-/-/+	+	-		0	0	-	35.88	66.33	+	+	-									
1798			+M	+M	+M	+M	+		32.27	66.29	+	+	+		32.22	66.17	+	34	66.11	+	+	+									
1799			-	-	+md/-	-	-		0	0	-	-	-		0	0	-	0	0	-	-	-									
1800			+M	+p	+M	+M	+		31.6	66.42	+	+	+		32.06	66.51	+	33.74	66.51	+	+	+									
1801			+1/2	+1/2	+m	+m	+		0	66.54	+	+	+		0	0	-	35.94	66.35	+	+	-									
1802			+M	+M	+m	+M	+		0/33.66/0	0/66.43/0	-/+/-	+	-		34.16	66.99	+	35.52	66.32	+	+	+									
1803			+M	+p	+1/2	+1/2	+		32.9	66.47	+	+	+		34.19	66.9	+	35.71	66.23	+	+	+									
1804			High	3.9	+1/2	+1/2	+1/2		+1/2	+	16/20	31.77	66.2		+	+	+	13/20	31.65	66.65	+	32.73		66.19		+	+	+	15/20	+	16/20
1805					-	-	-		-	-		0	0		-	-	-		0	0	-	0		0		-	-	-			
1806					-	-	-		-	-		0	0		-	-	-		0	0	-	0		0		-	-	-			
1807					+M	+M	+M		+M	+		32.57	66.34		+	+	+		31.79	66.6	+	32.95		66.27		+	+	+			
1808					+m	+M	+M		+M	+		32.1	66.36		+	+	+		32.57	66.75	+	34.65		66.36		+	+	+			
1809	+M	+p			+M	+M	+	31.48	66.02	+		+	+	31.94	66.47	+	32.72		66.13	+	+	+									
1810	-	+md/+			+m	+m	+	0/32.83/0	0/66.63/0	-/+/-		+	-	0	0	-	36.1		66.19	+	+	-									
1811	+M	+M			+1/2	+M	+	32.44	66.2	+		+	+	33.49	66.64	+	34.13		66.1	+	+	+									
1812	+1/2	+M			+1/2	+M	+	31.72	65.98	+		+	+	32.85	66.39	+	33.73		66.03	+	+	+									
1813	-	-			-	-	-	0	0	-		-	-	0	0	-	0		0	-	-	-									
1814	-	-			-	-	-	0	0	-		-	-	0	0	-	0		0	-	-	-									
1815	+M	+M			+M	+M	+	31.59	66.14	+		+	+	32.08	66.5	+	32.86		66.29	+	+	+									
1816	+M	+M			+M	+M	+	0/0/0	0/0/0	-/-/-		+	-	31.83	66.61	+	32.81		66.21	+	+	+									
1817	+1/2	+1/2			+M	+M	+	31.87	66.01	+		+	+	31.85	66.34	+	32.67		65.88	+	+	+									
1818	+md/-	+m/+			+M	+M	+	32.08	66	+		+	+	32.67	66.5	+	33.7		66.15	+	+	+									
1819	+m	+1/2			+1/2	+M	+	31.96	66.03	+		+	+	32.14	66.34	+	33.77		66.09	+	+	+									
1820	+M	+M			+M	+M	+	31.44	65.87	+		+	+	31.89	66.42	+	32.52		65.98	+	+	+									
1821	+M	+M			+M	+M	+	31.47	66.05	+		+	+	31.56	66.37	+	32.98		66.16	+	+	+									
1822	+m/+	+1/2			+M	+M	+	0/0/32.91	0/0/66.57	-/-/+		+	-	33.83	65.91	+	35.01		65.88	+	+	+									
1823	+m	+1/2			+M	+M	+	31.58	66.21	+		+	+	31.81	66.45	+	32.87		66.24	+	+	+									

* Analyses performed according to the COFRAC accreditation (Accreditation Testing n°1-0144, scope available on www.cofrac.fr)

Appendix 9 – Inclusivity and exclusivity study: raw data (Extension study No 6, 2018)

BPW + acriflavin (20 h at 37°C)

n°	Strain		Reference	Origin	Inoculation Level CFU/225ml	PCR Result initial validation			PCR Extension						Confirmations							
						CP	Tm	Result	Multi dose			Unit Dose			ChromID <i>Salmonella</i>		XLD		ASAP		RAPID' <i>Salmonella</i>	
									CP	Tm	Result	CP	Tm	Result	Result	Latex	Result	Latex	Result	Latex	Result	Latex
12	<i>Salmonella</i>	Blockley	Ad923	Poultry environment	21	21.89	67.31	+	23.47	66.64	+	22.82	66	+	+	+	+	+	+	+	+	+
13	<i>Salmonella</i>	<i>bongori</i> 66 :z35	Ad599	Environmental sample	19	23.49	59.08	+	23.91	57.87	+	23.49	56.87	+	- (white colonies)	-	+	-	- (white colonies)	+ weak	+	-
18	<i>Salmonella</i>	Caracas	Ad2322	Spice	33	23.08	58.07	+	24.3	56.73	+	24.46	56.51	+	+	-	+	-	+	+ weak	+	+ weak
20	<i>Salmonella</i>	Chester	CIP 103543	/	9	22.77	58.1	+	22.98	56.63	+	23.86	56.01	+	+	+	+	+	+	+	+	+
23	<i>Salmonella</i>	<i>diarizonae</i> 38.lv:z53	Ad451	Ewe milk cheese	42	21.86	59.19	+	23.93	58.04	+	22.92	57.21	+	+	-	+	-	+	-	+	-
28	<i>Salmonella</i>	Gallinarum biovar pullorum	Ad300	Poultry environment	39	21.94	59.34	+	22.74	57.97	+	24.27	57.91	+	+	-	+ (yellow edge)	-	+	-	+	-
52	<i>Salmonella</i>	Marseille	CIP105627	/	12	23.74	58.09	+	24.44	56.75	+	25.59	56.71	+	+	+	+	+	+	+	+	+
73	<i>Salmonella</i>	Poona	Ad2330	Poultry feed	32	21.66	57.39	+	22.49	56.9	+	21.69	55.65	+	+	+	+	+	+	+	+	+