

**NF VALIDATION**  
**Validation of alternative analytical methods**  
*Application in food microbiology*

**Summary report (37°C)**

**Validation study according to the EN ISO 16140-2:2016**

**GENE-UP® *Salmonella* 2 method**

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

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

**Qualitative method**

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This report consists of 396 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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Quality assurance documents related to this study can be consulted upon request from **bioMérieux**.

The technical protocol and the result interpretation were realised according to the EN ISO 16140-2:2016 and the AFNOR technical rules (PR Revision 7).

<b>Validation protocols</b>	<ul style="list-style-type: none"> <li>▪ ISO 16140-1 (2016): Microbiology of the food chain - Method validation — <i>Part 1: Vocabulary</i></li> <li>▪ ISO 16140-2 (2016): Microbiology of the food chain - Method validation — <i>Part 2: Protocol for the validation of alternative (proprietary) methods against a reference method</i></li> <li>▪ AFNOR technical rules (PR Revision 7).</li> </ul>
<b>Reference methods*</b>	<ul style="list-style-type: none"> <li>▪ 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.</li> <li>▪ 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 MSR/V and SC</li> </ul>
<b>Alternative method</b>	<b>GENE-UP® <i>Salmonella</i> 2</b>
<b>Scope</b>	<ul style="list-style-type: none"> <li>&gt; Broad range of foods</li> <li>&gt; Pet foods</li> <li>&gt; Production environmental samples</li> <li>&gt; Primary production samples (<i>excluding drinking water</i>)</li> </ul>
<b>Certification organism</b>	AFNOR Certification ( <a href="http://nf-validation.afnor.org/">http://nf-validation.afnor.org/</a> )

\* Analyses performed according to the COFRAC accreditation

# 1 INTRODUCTION

The GENE-UP® *Salmonella* 2 (GENE-UP SLM 2) 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.

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

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

	Date	Categories	Incubation temperature	Version of ISO 6579
Extension No 5	October 2018	<input checked="" type="checkbox"/> Milk powders, infant formula and infant cereals without probiotics including ingredients (25 g sample size), <input checked="" type="checkbox"/> Infant formula and infant cereals with probiotics (25 g sample size), <input checked="" type="checkbox"/> Milk powders, infant formula and infant cereals with or without probiotics including ingredients (excluding whey protein concentrates) (375 g sample size)	<b>37 ± 1°C</b>	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	<input checked="" type="checkbox"/> Broad range of food <input checked="" type="checkbox"/> Production environmental samples	41.5 ± 1°C	ISO 6579-1 (2017)
		<input checked="" type="checkbox"/> Broad range of food <input checked="" type="checkbox"/> Pet food <input checked="" type="checkbox"/> Production environmental samples	<b>37 ± 1°C</b>	ISO 6579-1 (2017)
Extension No 7	November 2019	<input checked="" type="checkbox"/> Milk powders (375 g) using the specific protocol ④	<b>37 ± 1°C</b>	ISO 6579-1 (2017)
Renewal study	May 2020	<input checked="" type="checkbox"/> Broad range of food <input checked="" type="checkbox"/> Production environmental samples	41.5 ± 1°C	ISO 6579-1 (2017)
		<input checked="" type="checkbox"/> Broad range of food <input checked="" type="checkbox"/> Pet food <input checked="" type="checkbox"/> Production environmental samples	<b>37 ± 1°C</b>	ISO 6579-1 (2017)
Extension No 8	December 2020	<input checked="" type="checkbox"/> Primary production samples using the specific protocol ⑩.	<b>37 ± 1°C</b>	ISO 6579-1 (2017) ISO 6579-1/A1
Extension No 9	October 2023	<input checked="" type="checkbox"/> Milk powders, infant formula and infant cereals with and without probiotics, early life nutrition (ELN) (375 g test portion size)	<b>37 ± 1°C</b>	ISO 6579-1 (2017) ISO 6579-1/A1
Extension No 11	October 2023	<input checked="" type="checkbox"/> Raw material for chocolate industry (375 g test portion size)	<b>37 ± 1°C</b>	ISO 6579-1 (2017) ISO 6579-1/A1
Extension No 10	December 2023	<input checked="" type="checkbox"/> Chocolates and confectionaries (375 g test portion size) tested with the enrichment broth of the ISO 6579-1 protocol according to ISO 6887 parts <input checked="" type="checkbox"/> Ingredients (375 g test portion size) tested with specific protocol ④	<b>37 ± 1°C</b>	ISO 6579-1 (2017) ISO 6579-1/A1

1) **37±1°C** for specific protocol, **34-38°C** for paired study

## 2 METHOD PROTOCOLS

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### 2.1 Alternative method

#### 2.1.1 Principle

The GENE-UP *Salmonella* 2 kit is used with compatible PCR strip tubes in the GENE-UP thermocycler.

The GENE-UP *Salmonella* 2 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 and 11.

## 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, TM).

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.

## 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
General	1-2-3-4-5-6-7-3	Broad range of foods (excluding sprouts), pet foods, production environmental samples	Up to 25 g	1/10	BPW <sup>(2)</sup>	18 – 26 h	34 - 38 °C or 41,5 ± 1°C
ISO 6579 Enrichment broth	5-10-12-19	Ingredients and specific products (raw ingredients, IF & IC with probiotics), cocoa and chocolate products, pet food Chocolates and confectionaries	Up to 375 g	1/10	Specific protocols described in ISO 6887 and ISO 6579-1	18 - 26 h (25 g) <sup>(1)</sup> 22 – 30 h (Cocoa and chocolates, 375 g) 20 - 28 h (Pet food, 375 g)	34 - 38°C
Specific ④	10- 15- 20	Cocoa and chocolates Milk powders and ingredients (excluding whey protein concentrates)	Up to 375 g	1/10	Pre-warmed BPW <sup>(2)</sup>	20 - 28 h	34 - 38°C
Specific ⑤	11	Milk powders 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 <sup>(2)</sup>	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) <sup>(3)</sup>	18 - 26 h	37 ± 1°C
Specific ⑧	15	Milk powders, infant formula and infant cereals with or without probiotics	Up to 375 g	1/6	Pre-warmed BPW + Novobiocin (10 mg/l) <sup>(3)</sup>	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) <sup>(2)</sup>	18 - 24 h 18 - 24 h	37 ± 1°C 41,5 ± 1°C

Protocol	Categories / types		Test portion size	Dilution	Enrichment broth	Incubation time	Incubation temperature
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 <sup>(2) (3)</sup>	20 - 28 h	37°C ± 1°C
Specific ⑪	18	Raw material for chocolate industry	Up to 375 g	1/10	Pre-warmed BPW + 3,5 mL BACTBOOST™ <sup>(2)</sup>	10 - 22 h (using the EGENE-UP® EASYPREP solution)	37°C ± 1°C
Specific ⑫	18	Raw material for chocolate industry	Up to 375 g	1/10	Pre-warmed BPW + 3,5 mL BACTBOOST™ <sup>(2)</sup>	22-30 h (using the GENE-UP lysis kit)	37°C ± 1°C

(1): IF and IC +probiotics, spices, egg white, cocoa based products

(2): Preparation of the samples done according to the ISO 6887 parts

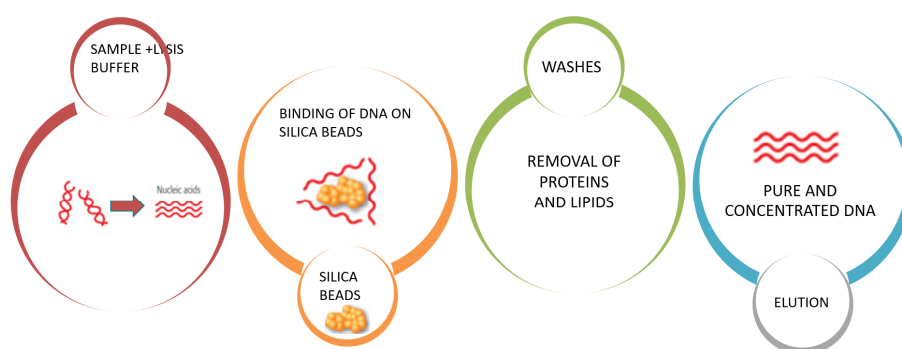
(3): Addition of α-amylase for infant cereals (0.1 g/l)

**Lysis and PCR steps:****For all protocols except specific (11)**

- Lysis on 20 µl enriched sample using the GENE-UP Lysis kit
- Real time PCR on 10 µl lysate (from SX2 for primary production samples)

**For specific protocol (11) using the EGENE-UP® EASYPREP**

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*, XLD or ASAP or SALMA, followed by OXOID *Salmonella* latex test (from SM2 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.

In both cases the typical colonies are tested by 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).

- For Specific protocol ⑨ (primary production samples):
  - by streaking the SX2 selective enrichment broth onto XLD or ASAP, followed by a direct latex test (ASAP) or a direct API gallery on characteristic colonies or the confirmation tests of the ISO 6579-1 method after colony purification.

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 General protocol at 37°C.

## 2.2 Reference methods♦

The reference method used for the initial validation and the extension studies No 2 and 3 was the ISO 6579 (December 2002): Microbiology of food and animal feeding stuffs - Horizontal method for the detection of *Salmonella* spp.

The reference method used for the extension (No 3, 4, 5, 7 and 8) studies corresponds to 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. (See **Appendix 2**).

*The modifications which occur in the version published in 2017 are considered as minor and have no impact on the previous data.*

For the extensions No 9, 10 and 11, the reference method used correspond to:

- 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 MSR/V and SC.

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♦ Analysis performed according to the COFRAC accreditation

For the initial validation study as well as the extensions 1 to 7 and 9 to 11, the samples were prepared according to ISO 6887 parts 1 to 5.

For the extension study on primary production samples (extension No 8 - 2020), the samples were prepared according to the ISO 6887-6.

The same test portion size (375 g) was used for the reference method and the GENE-UP SML2 method.

## 2.3 Study design

This is a paired study design for the general protocol, protocol © and protocols with a 1/10 dilution and sample preparation described in ISO 6887. The same sampling is applied for the reference method. This means that when 375 g tests portions are tested for the alternative method, 375 g are also tested for the reference method.

For all the other protocols, as the reference and the alternative have different enrichment broths, this is an unpaired study design.

## 3 METHOD COMPARISON STUDY

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*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°C ± 1°C or 34-38°C) is summarized in Table 3.

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

Validation studies	Categories concerned	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 (October 2023)	17-18	64	57	121
10 (December 2023)	19-20	64	61	125
<b>Total</b>	<b>/</b>	<b>678</b>	<b>654</b>	<b>1332</b>

Considering all the studies, 1332 samples were tested which provided 678 positive and 654 negative results. Note that some samples were tested with several protocols. For this extension study, 60 samples were tested for category 19 with the ISO protocol ⑩, and 65 samples for category 20 tested with specific protocol ④.

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 25 g	General 18 h	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 25 g	General 18 h	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 25 g	General 18 h	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 25 g	General 18 h	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 25 g	General 18 h	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
		ISO 6579-1 + ISO 6887 18 h	a	Raw ingredients	7	16	23
			b	Infant formula and cereals with probiotics	12	9	21
		General 18 h	c	Pasteurized eggs and egg powders	11	13	24
			Total		30	38	68
6	Pet food 25 g	General 18 h	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 25 g or mL or surface	General 18 h	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 375 g	④ 20 h	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 6579-1 + ISO 6887-4 22 h	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 375 g	⑤ 20 h	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 375 g	⑥ 20 h	a	Wet pet food	16	15	31
			b	Dry pet food	15	15	30
			Total		31	30	61
		ISO 6579-1 + ISO 6887 20 h	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 25 g	General 18 h	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 25 g	⑦ 18 h	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) 375 g	⑧ 20 h	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
		④ 20 h	c1	Ingredients (maltodextrin, whey, lactose, starch, caseinate, ...)	34	50	84
			c2	Milk powders	13	11	24
		Total			79	93	172
16	Primary production samples	⑨ 18 h	a	Feces	19	16	35
			b	Non feces	13	19	32
			Total			32	35
17	Milk powders, infant formula and infant cereals with or without probiotics, including early life nutrition 375 g	⑩ 20 h	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
18	Raw material for chocolate industry 375 g	⑪ 10 h EGENE-UP EASY PREP	a	Cocoa based raw material	11	9	20
			b	Milk based products	10	10	20
			c	Other ingredients	10	10	20
			Total			31	29
		⑪ 22 h EGENE-UP EASY PREP	a	Cocoa based raw material	12	8	20
			b	Milk based products	10	10	20
			c	Other ingredients	10	10	20
			Total			32	28
		⑫ 22 h GENE-UP Lysis kit	a	Cocoa based raw material	12	8	20
			b	Milk based products	10	10	20
			c	Other ingredients	10	10	20
			Total			32	28

Category		Enrichment protocol	Type	Positive samples	Negative samples	Total	
19	Chocolate and confectionaries 375 g	ISO 22 h w or w/o BACTVIAB PMAxx	a	Raw materials	10	10	20
			b	Chocolate finished products	11	9	20
			c	Confectionaries	10	10	20
			Total		31	29	60
20	Ingredients 375 g	④ 20 h w or w/o BACTVIAB 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
<b>Specific ④ (Cat 10, 15 &amp; 20) with or without PMAxx for Cat. 20</b>				<b>113</b>	<b>125</b>	<b>238</b>	
<b>All categories, protocols and incubation times (with or without BACTVIAB PMAxx for Cat 19 &amp; 20)</b>				<b>800</b>	<b>823</b>	<b>1623</b>	
<b>All categories (General and specific protocols) (with or without BACTVIAB PMAxx for Cat 20)</b>				<b>673</b>	<b>694</b>	<b>1367</b>	
<b>All categories (ISO protocols with or without BACTVIAB PMAxx for Cat 19 )</b>				<b>116</b>	<b>116</b>	<b>232</b>	

### 3.1.2 Artificial contamination of samples

Artificial contaminations were done by seeding protocols. The artificial contaminations applied for all the samples tested with an incubation temperature at 37°C are presented in **Appendix 3**.

For the PPS extension study (Extension No 8 - 2020), 42 samples were artificially contaminated using the seeding protocol (inoculation and storage for 24 h at ambient temperature), 32 gave a positive result.

For the overall studies, 605 samples were artificially contaminated for the general and specific protocols, 467 gave positive results.

138 samples were artificially contaminated for the ISO protocols, 81 gave positive results.

The repartition of the positive samples per inoculation protocol and inoculation level is given in:

- Table 5 for the primary production samples,
- Table 6 for the general and specific protocols,
- Table 7 for the ISO protocol,
- Table 8 for all the protocols combined.

**Table 5 Primary production samples**

	Inoculation protocol					Naturally contaminated	Total
	Spiking		Seeding				
	≤ 5 CFU	5<x≤10	≤ 3 CFU	3<x≤10,0	10,0<x≤30,0		
Number of positive samples	0	0	11	17	0	4	32
%	0,0%	0,0%	34,4%	53,1%	0,0%	12,5 %	100%

**Table 6 - General protocol and specific protocols**

	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	98	14	313	131	2	31	589
%	17,4%	2,5%	54,5%	20,7%	0,4%	5,3%	100%

**Table 7 - Samples analyzed with the ISO protocol  
(Ingredients and specific products (types a & b) and cocoa products)**

	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	28	3	67	9	1	0	10881
%	25,9%	2,8%	62,0%	8,3%	0,9%	0,0%	100,0%

**Table 8 - All protocols combined**

	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	118	17	369	140	3	30	677
%	17,4%	2,5%	54,5%	20,7%	0,4%	4,4%	100%

12.5% of the primary production samples were naturally contaminated. 53.1% of the samples were contaminated between 3.4 and 4.2 CFU. Higher inoculation level is usually required for this category to obtain positive results.

Taking into account all the tested samples, 4.4 % of the samples were naturally contaminated, 71,9 % were inoculated below 3 CFU (seeding protocol) or 5 CFU (spiking protocol), 23,2 % between 3 or 5 and 10 CFU and 0.3 % 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. The percentage is lower than the percentage required in the AFNOR technical rules, but this can be explained by the fact there is an important representation of categories where the prevalence of *Salmonella* is very low (Cocoa and chocolates, Milk powders, Ingredients and specific products, Infant formula and Infant cereals...).**

### 3.1.3 Protocols applied during the validation study

#### > Incubation times

The following incubation times were applied:

Protocol	Incubation time tested
General, ⑦ and ⑩	18 h
④, ⑤, ⑥, ⑧, ⑨	20 h
⑪	10 h and 22 h
⑫	22 h
ISO protocol (cocoa)	22 h
ISO protocol (pet food)	20 h
ISO protocol (ingredients and specific products)	18 h

For the specific protocol ⑨ (PPS), the enrichment broths (Tetrathionate and SX2) were incubated for 18 h at 37°C (for the TT broth) and 18 h at 41.5°C (for the SX2 broth).

#### > 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 extension No 10, the lysis step was performed with and without applying the BACTVIAB PMAxx protocol.

#### > Confirmation protocols

During the validation study, the confirmation tests were run as described in Table 9.

**Table 9 - 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 also tested for the extension studies performed in 2023 while it was not the case for the previous validation studies.

Note that for the previous validation studies, the *Salmonella* spp. latex (REF MGNF42) test was used but as this reference is no more available, the OXOID *Salmonella* test kit (DR1108A) was used to confirm the typical colonies from ChromID™ *Salmonella* (SM2), ASAP and SALMA selective agar plates.

For samples giving negative PCR results, a subculture in SX2 broth for 24h at 41,5°C will be 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 10 per confirmation protocol and with all the confirmatory tests combined.

**Table 10 – Interpretation of sample results between the reference and alternative method (based on the confirmed alternative method result using different confirmation protocols)**

Category		Protocol	Confirmation protocol	PA	NA*	PD	ND**	PPNA	PPND	Total
1	Ready to eat and ready to reheat	General 18 h	DS chrom ID	30	31	0	0	0	1	62
			DS XLD	29	31	0	0	0	2	62
			DS ASAP	31	31	0	0	0	0	62
			All confirmatory tests	31	31	0	0	0	0	62
2	Meat products	General 18 h	DS chrom ID	10	50	0	1	0	24	85
			DS XLD	13	50	0	1	0	21	85
			DS ASAP	22	50	0	1	0	12	85
			All confirmatory tests	34	50	0	1	0	0	85
3	Milk and dairy products	General 18 h	DS chrom ID	33	45	0	2	0	12	92
			DS XLD	36	45	0	2	0	9	92
			DS ASAP	41	45	0	2	0	4	92
			All confirmatory tests	45	45	0	2	0	0	92
4	Vegetables, fruits and seafood	General 18 h	DS chrom ID	28	32	0	0	0	6	66
			DS XLD	30	32	0	0	0	4	66
			DS ASAP	28	32	0	0	0	6	66
			All confirmatory tests	34	32	0	0	0	0	66
5	Specific ingredients and foods	General 18 h	DS chrom ID	23	30	5	4	5	1	68
			DS XLD	23	30	5	4	5	1	68
			DS ASAP	23	30	5	4	5	1	68
			All confirmatory tests	23	30	5	4	5	1	68
5	Specific ingredients and foods General GENE-UP + specific ISO	General 18 h + ISO	DS chrom ID	25	34	0	0	6	3	68
			DS XLD	25	34	0	0	6	3	68
			DS ASAP	25	34	0	0	6	3	68
			All confirmatory tests	28	35	2	0	3	0	68
6	Pet food	General 18 h	DS chrom ID	29	33	0	0	1	2	65
			DS XLD	30	33	0	0	1	1	65
			DS ASAP	31	33	0	0	1	0	65
			All confirmatory tests	31	33	0	0	1	0	65
7	Environmental samples	General 18 h	DS chrom ID	20	40	0	2	1	9	72
			DS XLD	23	40	0	2	1	6	72
			DS ASAP	26	40	0	2	1	3	72
			All confirmatory tests	29	40	0	2	1	0	72
10	Cocoa and chocolate (375g)	④ 20 h	DS chrom ID	21	32	6	6	0	0	65
			DS XLD	21	32	6	6	0	0	65
			DS ASAP	21	32	6	6	0	0	65
			All confirmatory tests	21	32	6	6	0	0	65
		ISO 6579-1 + ISO 6887-4 22 h	DS chrom ID	26	30	0	2	1	5	64
			DS XLD	30	30	0	2	1	1	64
			DS ASAP	28	30	0	2	1	3	64
			All confirmatory tests	32	30	0	1	1	0	64
11	Milk powders	⑤ 20 h	DS chrom ID	18	30	9	5	0	0	62
			DS XLD	18	30	9	5	0	0	62
			DS ASAP	18	30	9	5	0	0	62
			All confirmatory tests	18	30	9	5	0	0	62



Category		Protocol	Confirmation protocol	PA	NA*	PD	ND**	PPNA	PPND	Total
12	Pet food (375g)	⑥ 20 h	DS chrom ID	18	30	3	6	0	4	61
			DS XLD	21	30	3	6	0	1	61
			DS ASAP	20	30	3	6	0	2	61
			All confirmatory tests	22	30	3	6	0	0	61
		ISO 6579-1 + ISO 6887 20 h	DS chrom ID	28	31	0	2	0	3	64
			DS XLD	30	31	0	2	0	1	64
			DS ASAP	31	31	0	2	0	0	64
			All confirmatory tests	31	31	0	2	0	0	64
13	Milk powders, infant formula and infant cereals without probiotics including ingredients 25g	General 18 h	DS chrom ID	31	30	0	0	0	0	61
			DS XLD	31	30	0	0	0	0	61
			DS ASAP	31	30	0	0	0	0	61
			All confirmatory tests	31	30	0	0	0	0	61
14	Infant formula and infant cereals with probiotics 25g	⑦ 18 h	DS chrom ID	28	30	4	1	0	0	63
			DS XLD	28	30	4	1	0	0	63
			DS ASAP	28	30	4	1	0	0	63
			All confirmatory tests	28	30	4	1	0	0	63
15	Milk powders, infant formula and infant cereals with or without probiotics including ingredients 375g	⑧ 20 h + ④ 20 h	DS chrom ID	74	93	4	1	0	0	172
			DS XLD	73	93	4	1	0	1	172
			DS ASAP	74	93	4	1	0	0	172
			All confirmatory tests	74	93	4	1	0	0	172
16	Primary production samples	⑨ 18 h	XLD	10	34	12	8	3	0	67
			ASAP	11	34	13	7	2	0	67
			All confirmatory tests	11	34	14	7	1	0	67
17	Milk powders, infant formula and infant cereals with or without probiotics, including early life nutrition	⑩ 20 h	DS chrom ID	24	29	6	2	0	0	61
			DS XLD	24	29	6	2	0	0	61
			DS ASAP	24	29	6	2	0	0	61
			DS SALMA	24	29	6	2	0	0	61
			All confirmatory tests	24	29	6	2	0	0	61
18	Raw material for chocolate industry	⑪ 10 h EGENE-UP EASY PREP	DS chrom ID	19	29	5	6	1	0	60
			DS XLD	19	29	5	6	1	0	60
			DS ASAP	19	29	5	6	1	0	60
			DS SALMA	20	29	5	5	1	0	60
			All confirmatory tests	21	29	5	5	0	0	60
		⑪ 22 h EGENE-UP EASY PREP	DS chrom ID	21	28	6	5	0	0	60
			DS XLD	21	28	6	5	0	0	60
			DS ASAP	21	28	6	5	0	0	60
			DS SALMA	21	28	6	5	0	0	60
			All confirmatory tests	21	28	6	5	0	0	60
		⑫ 22 h GENE-UP Lysis kit	DS chrom ID	21	28	6	5	0	0	60
			DS XLD	21	28	6	5	0	0	60
			DS ASAP	21	28	6	5	0	0	60
			DS SALMA	21	28	6	5	0	0	60
All confirmatory tests	21		28	6	5	0	0	60		

Category		Protocol	Confirmation protocol	PA	NA*	PD	ND**	PPNA	PPND	Total
19	Chocolate and confectionaries	ISO 22 h without or with BACTVIAB PMAxx	DS chrom ID	29	29	0	2	0	0	60
			DS XLD	29	29	0	2	0	0	60
			DS ASAP	29	29	0	2	0	0	60
			DS SALMA	29	29	0	2	0	0	60
			All confirmatory tests	30	29	0	1	0	0	60
20	Ingredients	④ 20 h Without or with BACTVIAB PMAxx	DS chrom ID	30	31	0	3	1	0	65
			DS XLD	31	31	0	2	1	0	65
			DS ASAP	31	31	0	2	1	0	65
			DS SALMA	31	31	0	2	1	0	65
			All confirmatory tests	31	31	0	2	1	0	65
All samples			DS chrom ID	614	805	58	56	16	70	1619
			DS XLD	616	809	66	62	19	51	1623
			DS ASAP	631	809	67	61	18	37	1623
			DS SALMA	146	174	23	21	2	0	366
			All confirmatory tests	671	810	70	58	13	1	1623

DS: Direct Streaking  
 PD: Positive Deviation (R-/A+)  
 \* PPNA not included

PP: Positive Presumptive non-confirmed samples  
 ND: Negative Deviation (R+/A-)  
 \*\* PPND not included

### 3.1.5 Calculation of relative trueness (RT), sensitivity (SE) and false positive ratio (FPR)

The calculations were done taking into account all the confirmatory tests; they are presented in Table 11.

**Table 11 – Calculation of the relative trueness (RT), the sensitivity (SE) and the false positive ratio (FPR)**

Category		Enrichment protocol	Type	PA	NA*	PD	ND**	PPND	PPNA	SE <sub>alt</sub> %	SE <sub>ref</sub> %	RT %	FPR %	
1	Ready to eat and ready to reheat 25 g	General 18 h	a	Ready-To-Eat (RTE) foods	9	11	0	0	0	100,0	100,0	100,0	0	
			b	Ready-To-Reheat (RTR) foods	12	10	0	0	0	100,0	100,0	100,0	0,0	
			c	Cured and smoked products (no delicatessen)	10	10	0	0	0	100,0	100,0	100,0	0,0	
			Total		31	31	0	0	0	100,0	100,0	100,0	0,0	
2	Meat products 25 g	General 18 h	a	Raw meat products (frozen or fresh)	12	21	0	0	0	100,0	100,0	100,0	0	
			b	Raw poultry (fresh or frozen)	13	17	0	0	0	100,0	100,0	100,0	0,0	
			c	Raw delicatessen	9	12	0	1	0	90,0	100,0	95,5	0,0	
			Total		34	50	0	1	0	97,1	100,0	98,8	0,0	
3	Dairy products 25 g	General 18 h	a	Pasteurized products	11	9	0	0	0	100,0	100,0	100,0	0,0	
			b	Raw products	14	10	0	2	0	87,5	100,0	92,3	0,0	
			c	Ingredients and low moisture products	20	26	0	0	0	100,0	100,0	100,0	0,0	
			Total		45	45	0	2	0	95,7	100,0	97,8	0,0	
4	Vegetables and seafood samples 25 g	General 18 h	a	Fish and Seafood	11	13	0	0	0	100,0	100,0	100,0	0,0	
			b	Produces	12	10	0	0	0	100,0	100,0	100,0	0,0	
			c	Fruits & vegetables	11	9	0	0	0	100,0	100,0	100,0	0,0	
			Total		34	32	0	0	0	100,0	100,0	100,0	0,0	
5	Ingredients and specific products 25 g	General 18 h	a	Raw ingredients	2	11	4	3	1	2	60,0	60,0	65,2	27,3
			b	Infant formula and cereals with probiotics	10	8	1	1	0	1	91,7	91,7	90,5	12,5
			c	Pasteurized eggs and egg powders	11	11	0	0	0	2	100,0	100,0	100,0	18,2
			Total		23	30	5	4	1	5	84,8	84,8	85,3	17,1
		ISO 6579-1 + ISO 6887 18 h	a	Raw ingredients	6	14	1	0	0	2	100,0	85,7	95,7	14,3
			b	Infant formula and cereals with probiotics	11	9	1	0	0	0	100,0	91,7	95,2	0,0
		General 18 h	c	Pasteurized eggs and egg powders	11	12	0	0	0	1	100,0	100,0	100,0	8,3
Total			28	35	2	0	0	3	100,0	93,3	97,1	7,9		
6	Pet food 25 g	General 18 h	a	Wet pet food	16	16	0	0	0	1	100,0	100,0	100,0	6,3
			b	Dry pet food	15	17	0	0	0	0	100,0	100,0	100,0	0,0
			Total		31	33	0	0	0	1	100,0	100,0	100,0	2,9
7	Environmental samples 25 g or mL or surface	General 18 h	a	Dusts and Residues	9	10	0	1	0	0	90,0	100,0	95,0	0,0
			b	Cleaning and Process Waters	11	12	0	0	0	1	100,0	100,0	100,0	8,3
			c	Surface samples	9	18	0	1	0	0	90,0	100,0	96,4	0,0
			Total		29	40	0	2	0	1	93,5	100,0	97,2	2,4

Category		Enrichment protocol	Type	PA	NA*	PD	ND**	PPND	PPNA	SE <sub>alt</sub> %	SE <sub>ref</sub> %	RT %	FPR %	
10	Cocoa and chocolates 375 g	④ 20 h	a	Cocoa powders	9	7	4	4	0	0	76,5	76,5	66,7	0,0
			b	Chocolates	6	12	2	0	0	0	100,0	75,0	90,0	0,0
			c	Raw materials (Mass, liquor, beans, butter)	6	13	0	2	0	0	75,0	100,0	90,5	0,0
			Total		21	32	6	6	0	0	81,8	81,8	81,5	0,0
		ISO 6579-1 + ISO 6887-4 22 h	a	Cocoa powders	13	10	0	0	0	0	100,0	100,0	100,0	0,0
			b	Chocolates	11	8	0	1	0	0	91,7	100,0	95,0	0,0
			c	Raw materials (Mass, liquor, beans, butter)	8	12	0	0	0	1	100,0	100,0	100,0	8,3
			Total		32	30	0	1	0	1	97,0	100,0	98,4	3,2
11	Milk powders 375 g	⑤ 20 h	a	Milk powders	3	10	5	4	0	0	66,7	58,3	59,1	0,0
			b	Infant formula without probiotics	7	10	2	1	0	0	90,0	80,0	85,0	0,0
			c	Infant formula with probiotics	8	10	2	0	0	0	100,0	80,0	90,0	0,0
			Total		18	30	9	5	0	0	84,4	71,9	77,4	0,0
12	Pet food 375 g	⑥ 20 h	a	Wet pet food	16	15	0	0	0	0	100,0	100,0	100,0	0,0
			b	Dry pet food	6	15	3	6	0	0	60,0	80,0	70,0	0,0
			Total		22	30	3	6	0	0	80,6	90,3	85,2	0,0
		ISO 6579-1 + ISO 6887 20 h	a	Wet pet food	16	15	0	0	0	0	100,0	100,0	100,0	0,0
			b	Dry pet food	15	16	0	2	0	0	88,2	100,0	93,9	0,0
			Total		31	31	0	2	0	0	93,9	100,0	96,9	0,0
13	Milk powders, infant formula and infant cereals without probiotics including ingredients 25 g	General 18 h	a	Milk powders, infant formula	10	10	0	0	0	0	100,0	100,0	100,0	0,0
			b	Infant cereals	11	10	0	0	0	0	100,0	100,0	100,0	0,0
			c	Ingredients: whey, maltodextrin	10	10	0	0	0	0	100,0	100,0	100,0	0,0
			Total		31	30	0	0	0	0	100,0	100,0	100,0	0,0
14	Infant formula and infant cereals with probiotics 25 g	⑦ 18 h	a	Infant formula	16	15	1	0	0	0	100,0	94,1	96,9	0,0
			b	Infant cereals	12	15	3	1	0	0	93,8	81,3	87,1	0,0
			Total		28	30	4	1	0	0	97,0	87,9	92,1	0,0
15	Milk powders, infant formula and infant cereals with or without probiotics including ingredients (excluding whey protein concentrates) 375 g	⑧ 20 h	a	Milk powders, infant formula and infant cereals without probiotics	16	15	1	0	0	0	100,0	94,1	96,9	0,0
			b	Infant formula and infant cereals with probiotics with	11	17	3	1	0	0	93,3	80,0	87,5	0,0
		④ 20 h	c1	Ingredients (maltodextrin, whey, lactose, starch, caseinate...)	34	50	0	0	0	0	100,0	100,0	100,0	0,0
			c2	Milk powders	13	11	0	0	0	0	100,0	100,0	100,0	0,0
		Total		74	93	4	1	0	0	98,7	94,9	97,1	0,0	

Category		Enrichment protocol	Type	PA	NA*	PD	ND**	PPND	PPNA	SE <sub>alt</sub> %	SE <sub>ref</sub> %	RT %	FPR %	
16	Primary production samples	⑨ 18 h	a	Feces	7	16	7	5	0	0	73,7	63,2	65,7	0,0
			b	Non feces	4	18	7	2	0	1	84,6	46,2	71,9	5,3
			Total		11	34	14	7	0	1	78,1	56,3	68,7	2,9
17	Milk powders, infant formula and infant cereals with or without probiotics, including early life nutrition 375 g	⑩ 20 h	a	Milk powder, infant formula and infant cereals without probiotics	7	9	3	1	0	0	90,9	72,7	80,0	0,0
			b	Infant formula and infant cereals with probiotics	8	10	2	1	0	0	90,9	81,8	85,7	0,0
			c	Early life nutrition	9	10	1	0	0	0	100,0	90,0	95,0	0,0
			Total		24	29	6	2	0	0	93,8	81,3	86,9	0,0
18	Raw material for chocolate industry 375 g	⑪ 10 h EGENE-UP EASY PREP	a	Cocoa based raw material	6	9	3	2	0	0	81,8	72,7	75,0	0,0
			b	Milk based products	8	10	0	2	0	0	80,0	100,0	90,0	0,0
			c	Other ingredients	7	10	2	1	0	0	90,0	80,0	85,0	0,0
			Total		21	29	5	5	0	0	83,9	83,9	83,3	0,0
		⑪ 22 h EGENE-UP EASY PREP	a	Cocoa based raw material	6	8	4	2	0	0	83,3	66,7	70,0	0,0
			b	Milk based products	8	10	0	2	0	0	80,0	100,0	90,0	0,0
			c	Other ingredients	7	10	2	1	0	0	90,0	80,0	85,0	0,0
			Total		21	28	6	5	0	0	84,4	81,3	81,7	0,0
		⑫ 22 h GENE-UP Lysis kit	a	Cocoa based raw material	6	8	4	2	0	0	83,3	66,7	70,0	0,0
			b	Milk based products	8	10	0	2	0	0	80,0	100,0	90,0	0,0
			c	Other ingredients	7	10	2	1	0	0	90,0	80,0	85,0	0,0
			Total		21	28	6	5	0	0	84,4	81,3	81,7	0,0

Category		Enrichment protocol	Type	PA	NA*	PD	ND**	PPND	PPNA	SE <sub>alt</sub> %	SE <sub>ref</sub> %	RT %	FPR %	
19	Chocolate and confectionaries 375 g	ISO 22 h w/o BACTVIAB PMAxx	a	Raw materials	10	10	0	0	0	0	100,0	100,0	100,0	0,0
			b	Chocolate finished products	10	9	0	1	0	0	90,9	100,0	95,0	0,0
			c	Confectionaries	10	10	0	0	0	0	100,0	100,0	100,0	0,0
			Total		30	29	0	1	0	0	96,8	100,0	98,3	0,0
		ISO 22 h w BACTVIAB PMAxx	a	Raw materials	10	10	0	0	0	0	100,0	100,0	100,0	0,0
			b	Chocolate finished products	10	9	0	1	0	0	90,9	100,0	95,0	0,0
			c	Confectionaries	10	10	0	0	0	0	100,0	100,0	100,0	0,0
			Total		30	29	0	1	0	0	96,8	100,0	98,3	0,0
20	Ingredients 375 g	④ 20 h w/o BACTVIAB PMAxx	a	Egg based products	11	9	0	0	0	0	100,0	100,0	100,0	0,0
			b	Milk based products	10	9	0	1	0	1	90,9	100,0	95,2	11,1
			c	Other ingredients	10	13	0	1	0	0	90,9	100,0	95,8	0,0
			Total		31	31	0	2	0	1	93,9	100,0	96,9	3,1
		④ 20 h w BACTVIAB PMAxx	a	Egg based products	11	9	0	0	0	0	100,0	100,0	100,0	0,0
			b	Milk based products	10	9	0	1	0	1	90,9	100,0	95,2	11,1
			c	Other ingredients	10	13	0	1	0	0	90,9	100,0	95,8	0,0
			Total		31	31	0	2	0	1	93,9	100,0	96,9	3,1
<b>Specific ④ (Cat 10, 15 &amp; 20 ) with or without BACTVIAB PMAxx for Cat 20</b>				<b>99</b>	<b>124</b>	<b>6</b>	<b>8</b>	<b>0</b>	<b>1</b>	<b>92,9</b>	<b>94,7</b>	<b>94,1</b>	<b>0,8</b>	
<b>All categories, protocols and incubation times (with or without BACTVIAB PMAxx for Cat 19 &amp; 20)</b>				<b>671</b>	<b>810</b>	<b>70</b>	<b>58</b>	<b>1</b>	<b>13</b>	<b>92,6</b>	<b>91,3</b>	<b>92,1</b>	<b>1,7</b>	
<b>All categories (General and specific protocols with or without BACTVIAB PMAxx for Cat 20)</b>				<b>550</b>	<b>685</b>	<b>68</b>	<b>54</b>	<b>1</b>	<b>9</b>	<b>91,8</b>	<b>89,9</b>	<b>91,0</b>	<b>1,4</b>	
<b>All categories (ISO protocols with or without BACTVIAB PMAxx for Cat 19)</b>				<b>110</b>	<b>113</b>	<b>2</b>	<b>4</b>	<b>0</b>	<b>3</b>	<b>96,6</b>	<b>98,3</b>	<b>97,4</b>	<b>2,6</b>	

\* PPNA not included

\*\* PPND not included

The following results are observed (See Table 12).

**Table 12 - Summary of results**

		All categories, protocols and incubation times	All categories and protocols combined (General and specific protocols)	All categories (ISO protocol)
Sensitivity for the alternative method	$SE_{alt} = \frac{(PA + PD)}{(PA + ND + PD)} \times 100\%$	92,6 %	91,8%	96,6 %
Sensitivity for the reference method	$SE_{ref} = \frac{(PA + ND)}{(PA + ND + PD)} \times 100\%$	91,3%	89,9%	98,3 %
Relative trueness	$RT = \frac{(PA + NA)}{N} \times 100\%$	92,1%	91,0%	97,4 %
False positive ratio for the alternative method* FP = PPNA + PPND	$FPR = \frac{(FP)}{NA} \times 100\%$	1,7%	1,4%	2,6 %

With  $ND = ND + PPND$   
 $NA = NA + PPNA$

### 3.1.6 Analysis of discordant results

The negative deviations are given in Table 13 and the positive deviations in Table 14.

#### > Negative deviations

For the general 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, ⑧ and ⑨, 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, 5 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 protocol (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.

### > **Positive deviations**

For 25 g sample size, 5 positive deviations were obtained using the General 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 MSR/V 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, ⑧ and ⑨, 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 ⑩), 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, 5 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 and 20, no positive deviation was observed

The analyses of discordant results according to the EN ISO 16140-2:2016 is the following (See Table 15).

**Note that the acceptability limit (AL) has been estimated based on the number of positive samples.**

**Table 13 - Negative deviations**

General Protocol (37°C)													
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	2	c	Paired	General
2135	Raw cream	S. Mbandaka Ad1810	1	0/0/34,18	0/0/66,26	-/-+	+	+	ND	3	b	Paired	General
2138	Raw cream	S. Montevideo Ad912	1,6	0/0/35,21	0/0/67,46	-/-+	+	+	ND	3	b	Paired	General
3073	Paprika	S. Agona Ad1725	2,0	0	0	-	-	/	ND	5	a	Unpaired	General
3074	Turmeric	S. Oranienburg Ad1724	<1,7	8,97/0/0	49,04/65,95/0	+/-	-(MSRV -)	/	PPND	5	a	Unpaired	General
4267	Cocoa powder	S. Bareilly Ad1687	2,9	0/0/0	0/0/0	i/i*/-**	-	/	ND	5	a	Unpaired	General
4270	Cocoa bean	S. Typhimurium Ad1682	0,8	0	0	-	-	/	ND	5	a	Unpaired	General
5628	Infant formula with probiotics	S. Cerro Ad2150	4	0	0	-	-	/	ND	5	b	Unpaired	General
7580	Residues (fish industry)	S. Saintpaul F31	2,0	0/0/0	0/0/0	-/-	+	+	ND	7	a	Paired	General
7663	Wipe (vegetables industry)	S. Heidelberg A00E005	1,8	0/0/0	0/0/0	-/-	+	+	ND	7	c	Paired	General

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			Confir- mation	Agreement	Category	Type	Study design
				CP	Tm	Result					
5382	Nut chocolate	S. Mbandaka Ad1723	0,4	0	0	-	+	ND	10	b	Paired
9522	Guinea pig food	S. Livingstone F104	4,6	0/0/35,58	0/0/66,15	-/-+	-	ND	12	b	Paired
9524	Rabbit food	S. Poona Ad2330	2,0	0/0/0	0/0/0	-/-	+	ND	12	b	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						
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	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	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. Branderup 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 (3,6.10 <sup>4</sup> CFU/g)	S. Agona Ad1725	3	0	0	-	-	ND	14	b	Unpaired	7
4901	Infant cereals with probiotics (1,2.10 <sup>4</sup> CFU/g)	S. Havana Ad2725	2,6	0	0	-	-	ND	15	b	Unpaired	8
2733	Boots socks (poultry environment)	S. Enteritidis Ad2970	2,2	0	0	-	-	ND	16	a	Unpaired	9
3008	Boots socks (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> : 1,18.103 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	Protocol
				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	65.9 8 0	+ - -	-	ND	i i* i** 0***	i i* i** 0***	  *  ** _***	-	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

\* 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			Confir- mation	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

ISO and Specific protocols (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	PA	19	b	ISO
3693	Milk chocolate	S. Stanley Ad1688	1	35.75	65.73	+	0/0/0	0/0/0	-/-/-	+	PA	ND	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	ND	20	b	4
4311	Soy lecithin	S. Mbandaka Ad2808	0,3	0/0/0	0/0/0	-/-/-	0/0/0	0/0/0	-/-/-	+	ND	ND	20	c	4

**Table 14 - Positive deviations**

General 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 Enrichment												
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 (3,2.10 <sup>6</sup> CFU/g)	S. Virchow Ad1721	0,8	36,42	66,04	+	+	PD	11	c	Unpaired	5
4500	Infant formula with probiotics (2,3.10 <sup>6</sup> 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 (6,0.10 <sup>4</sup> CFU/g)	S. Mbandaka Ad1722	4,2	20,08	66,13	+	+	PD	14	a	Unpaired	7
4697	Infant cereals with probiotics (2,5.10 <sup>5</sup> CFU/g)	S. Kasenyi Ad2921	4	22,48	65,57	+	+	PD	14	b	Unpaired	7
4708	Infant cereals with probiotics (1,6.10 <sup>4</sup> CFU/g)	S. Agona Ad1725	3	28,87	65,58	+	+	PD	14	b	Unpaired	7
4711	Infant cereals with probiotics (1,8.10 <sup>4</sup> 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 (8,4.10 <sup>3</sup> CFU/g)	S. Livingstone Ad2566	5,3	21,12	66,21	+	+	PD	15	b	Unpaired	8
4905	Infant formula with probiotics (3,2.10 <sup>5</sup> CFU/g)	S. Indiana Ad174	4	20,47	66	+	+	PD	15	b	Unpaired	8
4910	Infant formula with probiotics (3,1.10 <sup>5</sup> 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	Bootssocks (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> : 1,09.10 <sup>6</sup> 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> : 1,09.10 <sup>6</sup> 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.Brandenburg 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

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.Brandenburg 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	11

Table 15 - Analyses of discordant results

Category	Enrichment protocol	Type	Study design	PD	ND	PPND	PAIRED					UNPAIRED			Combined PAIRED and UNPAIRED				
							N+	(ND+ PPND) -PD	AL	(ND+ PPND) +PD	AL	N+	(ND+ PPND) -PD	AL	N+	(ND+ PPND) -PD	AL		
1	Ready to eat and ready to reheat 25 g	General 18 h	a	Ready-To-Eat (RTE) foods	paired	0	0	0	9	0		0					9	0	
			b	Ready-To-Reheat (RTR) foods	paired	0	0	0	12	0		0					12	0	
			c	Cured and smoked products (no delicatessen)	paired	0	0	0	10	0		0					10	0	
			Total			0	0	0	31	0	3	0	6				31	0	3
2	Meat products 25 g	General 18 h	a	Raw meat products (frozen or fresh)	paired	0	0	0	12	0		0					12	0	
			b	Raw poultry (fresh or frozen)	paired	0	0	0	13	0		0					13	0	
			c	Raw delicatessen	paired	0	1	0	10	1		1					10	1	
			Total			0	1	0	35	1	3	1	6				35	1	3
3	Dairy products 25 g	General 18 h	a	Pasteurized products	paired	0	0	0	11	0		0					11	0	
			b	Raw products	paired	0	2	0	16	2		2					16	2	
			c	Ingredients and low moisture products	paired	0	0	0	20	0		0					20	0	
			Total			0	2	0	47	2	3	2	6				47	2	6
4	Vegetables and seafood samples 25 g	General 18 h	a	Fish and Seafood	paired	0	0	0	11	0		0					11	0	
			b	Produce	paired	0	0	0	12	0		0					12	0	
			c	Fruits & vegetables	paired	0	0	0	11	0		0					11	0	
			Total			0	0	0	34	0	3	0	6				34	0	3
5	Ingredients and specific products 25 g	General 18 h	a	Raw ingredients	Unpaired	4	3	1						10	0		10	0	
			b	Infant formula and cereals with probiotics	Unpaired	1	1	0						12	0		12	0	
			c	Pasteurized eggs and egg powders	paired	0	0	0	11	0		0		11	0		11	0	
			Total			5	4	1	11	0	3	0	6	22	0	3	33	0	3
		ISO 6579-1 + ISO 6887 18 h	a	Raw ingredients	paired	1	0	0	7	-1		1					7	-1	
			b	Infant formula and cereals with probiotics	paired	1	0	0	12	-1		1					12	-1	
			c	Pasteurized eggs and egg powders	paired	0	0	0	11	0		0					11	0	
			Total			2	0	0	30	-2	3	2	6				30	-2	3
6	Pet food 25 g	General 18 h	a	Wet pet food	paired	0	0	0	16	0		0					16	0	
			b	Dry pet food	paired	0	0	0	15	0		0					15	0	
			Total			0	0	0	31	0	3	0	6				31	0	3
7	Environmental samples 25 g or mL or surface	General 18 h	a	Dusts and Residues	paired	0	1	0	10	1		1					10	1	
			b	Cleaning and Process Waters	paired	0	0	0	11	0		0					11	0	
			c	Surface samples	paired	0	1	0	10	1		1					10	1	
			Total			0	2	0	31	2	3	2	6				31	2	3
10	Cocoa and chocolates 375 g	④ 20 h	a	Cocoa powders	unpaired	4	4	0						17	0		17	0	
			b	Chocolates	unpaired	2	0	0						8	-2		8	-2	
			c	Raw materials (Mass, liquor, beans, butter)	unpaired	0	2	0						8	2		8	2	
			Total			6	6	0						33	0	3	33	0	3
		ISO 6579-1 + ISO 6887-4 22 h	a	Cocoa powders	paired	0	0	0	13	0		0					13	0	
			b	Chocolates	paired	0	1	0	12	1		1					12	1	
			c	Raw materials (Mass, liquor, beans, butter)	paired	0	0	0	8	0		0					8	0	
			Total			0	1	0	33	1	3	1	6				33	1	3
11	Milk powders 375 g	⑤ 20 h	a	Milk powders	unpaired	5	4	0						12	-1		12	-1	
			b	Infant formula without probiotics	unpaired	2	1	0						10	-1		10	-1	
			c	Infant formula with probiotics	unpaired	2	0	0						10	-2		10	-2	
			Total			9	5	0						32	-4	3	32	-4	3

Category	Enrichment protocol	Type	Study design	PD	ND	PPND	PAIRED					UNPAIRED			Combined PAIRED and UNPAIRED					
							N+	(ND+ PPND) -PD	AL	(ND+ PPND) +PD	AL	N+	(ND+ PPND) -PD	AL	N+	(ND+ PPND) -PD	AL			
12	Pet food 375 g	⑥ 20 h	a	Wet pet food	unpaired	0	0	0						16	0		16	0		
			b	Dry pet food	unpaired	3	6	0							15	3		15	3	
			Total			3	6	0							31	3	3	31	3	3
		ISO 6579-1 + ISO 6887 20 h	a	Wet pet food	paired	0	0	0	16	0		0						16	0	
			b	Dry pet food	paired	0	2	0	17	2		2						17	2	
			Total			0	2	0	33	2	3	2	6					33	2	3
13	Milk powders, infant formula and infant cereals without probiotics including ingredients 25 g	General 18 h	a	Milk powders, infant formula	paired	0	0	0	10	0		0					10	0		
			b	Infant cereals	paired	0	0	0	11	0		0					11	0		
			c	Ingredients: whey, maltodextrin	paired	0	0	0	10	0		0					10	0		
			Total			0	0	0	31	0	3	0	6				31	0	3	
14	Infant formula and infant cereals with probiotics 25 g	⑦ 18 h	a	Infant formula	unpaired	1	0	0						17	-1		17	-1		
			b	Infant cereals	unpaired	3	1	0							16	-2		16	-2	
			Total			4	1	0							33	-3	3	33	-3	3
15	Milk powders, infant formula and infant cereals with or without probiotics including ingredients (excluding whey protein concentrates) 375 g	⑧ 20 h	a	Milk powders, infant formula and infant cereals without probiotics	unpaired	1	0	0						17	-1		17	-1		
			b	Infant formula and infant cereals with probiotics with	unpaired	3	1	0							15	-2		15	-2	
		④ 20 h	c1	Ingredients( maltodextrin, whey, lactose, starch, caseinate,...)	paired	0	0	0	34	0		0					34	0		
			c2	Milk powders	paired	0	0	0	13	0		0					13	0		
		Total			4	1	0	47	0	3	0	6			32	-3	3	79	-3	4
16	Primary production samples	⑨ 18 h	a	Feces	unpaired	7	5	0						19	-2		19	-2		
			b	Non feces	unpaired	7	2	0							13	-5		13	-5	
			Total			14	7	0							32	-7	3	32	-7	3
17	Milk powders, infant formula and infant cereals with or without probiotics, including early life nutrition 375 g	⑩ 20 h	a	Milk powder, infant formula and infant cereals without probiotics	unpaired	3	1	0						11	-2		11	-2		
			b	Infant formula and infant cereals with probiotics	unpaired	2	1	0							11	-1		11	-1	
			c	Early life nutrition	unpaired	1	0	0							10	-1		10	-1	
			Total			6	2	0							32	-4	3	32	-4	3
18	Raw material for chocolate industry 375 g	⑪ 10 h EGENE-UP EASY PREP	a	Coca based raw material	unpaired	3	2	0						11	-1		11	-1		
			b	Milk based products	unpaired	0	2	0							10	2		10	2	
			c	Other ingredients	unpaired	2	1	0							10	-1		10	-1	
			Total			5	5	0							31	0	3	31	0	3
		⑪ 22 h EGENE-UP EASY PREP	a	Coca based raw material	unpaired	4	2	0							12	-2		12	-2	
			b	Milk based products	unpaired	0	2	0							10	2		10	2	
			c	Other ingredients	unpaired	2	1	0							10	-1		10	-1	
			Total			6	5	0							32	-1	3	32	-1	3
		⑫ 22 h GENE-UP Lysis kit	a	Coca based raw material	unpaired	4	2	0							12	-2		12	-2	
			b	Milk based products	unpaired	0	2	0							10	2		10	2	
			c	Other ingredients	unpaired	2	1	0							10	-1		10	-1	
			Total			6	5	0							32	-1	3	32	-1	3

Category	Enrichment protocol	Type	Study design	PD	ND	PPND	PAIRED					UNPAIRED			Combined PAIRED and UNPAIRED		
							N+	(ND+ PPND) -PD	AL	(ND+ PPND) +PD	AL	N+	(ND+ PPND) -PD	AL	N+	(ND+ PPND) -PD	AL
19	④ 22 h w/o BACTVIAB PMAxx	a	Raw material	paired	0	0	0	10	0		0			10	0		
		b	Chocolate finished products	paired	0	1	0	11	1		1			11	1		
		c	Confectionaries	paired	0	0	0	10	0		0			10	0		
		Total			0	1	0	31	1	3	1	6		31	1	3	
	④ 22 h w BACTVIAB PMAxx	a	Raw material	paired	0	0	0	10	0		0			10	0		
		b	Chocolate finished products	paired	0	1	0	11	1		1			11	1		
		c	Confectionaries	paired	0	0	0	10	0		0			10	0		
		Total			0	1	0	31	1	3	1	6		31	1	3	
20	④ 20 h w/o BACTVIAB PMAxx	a	Egg based products	paired	0	0	0	11	0		0		11	0			
		b	Milk based products	paired	0	1	0	11	1		1		11	1			
		c	Other ingredients	paired	0	1	0	11	1		1		11	1			
		Total			0	2	0	33	2	3	2	6	33	2	3		
	④ 20 h w BACTVIAB PMAxx	a	Egg based products	paired	0	0	0	11	0		0		11	0			
		b	Milk based products	paired	0	1	0	11	1		1		11	1			
		c	Other ingredients	paired	0	1	0	11	1		1		11	1			
		Total			0	2	0	33	2	3	2	6	33	2	3		
<b>Specific ④ (Cat 10, 15 &amp; 20) with or without BACTVIAB PMAxx for Cat 20</b>				<b>6</b>	<b>8</b>	<b>0</b>	<b>80</b>						<b>113</b>	<b>2</b>	<b>5<sup>(1)</sup></b>		
<b>All categories, protocols and incubation times (with or without BACTVIAB PMAxx for Cat 19 &amp; 20)</b>				<b>70</b>	<b>58</b>	<b>1</b>	<b>458</b>						<b>800</b>	<b>-8</b>	<b>16<sup>(2)</sup></b>		
<b>All categories (General and specific protocols with or without BACTVIAB PMAxx for Cat 20)</b>				<b>68</b>	<b>54</b>	<b>1</b>	<b>331</b>						<b>673</b>	<b>-11</b>	<b>14<sup>(3)</sup></b>		
<b>All categories ( ISO protocols with or without BACTVIAB PMAxx for Cat 19 )</b>				<b>2</b>	<b>4</b>	<b>0</b>	<b>116</b>						<b>116</b>	<b>2</b>	<b>5<sup>(4)</sup></b>		

<sup>(1)</sup> AL for 3 categories

<sup>(2)</sup> AL estimated for 26 categories

<sup>(3)</sup> AL estimated for 22 categories

<sup>(4)</sup> AL estimated for 3 categories

The observed values for ((ND + PPND) - PD) and ((ND + PPND) + PD) for the 20 individual categories and for all the categories and protocols meet the Acceptability Limits (observed values  $\leq$  estimated AL).

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

879 enrichments and 944 lysates were tested again after storage for 72 h at  $5^\circ\text{C} \pm 3^\circ\text{C}$ . 27 samples were concerned by results modifications; they are listed (See Table 16).

**Table 16 - 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	2	c	General
2138	Raw cream	ND	PA	PA	3	b	General
2141	Raw cow milk cheese	PA	PA	ND	3	b	General
2995	Vegetable mix	PA	PPND	PPND	4	c	General
1496	Chive	PA	ND	PA	4	b	General
1503	Grated carrots	PA	PA	ND	4	c	General
4694	Cocoa powder	NA	PD	PD	5	a	General
4385	Infant cereals with probiotics	NA	PD	PD	5	b	General
5624	Infant formula with probiotics	PD	PPNA	PPNA	5	b	General
7670	Dust from dairy industry	PA	PA	ND	7	a	General
4694	Cocoa powder	PD	NA	NA	5	a	ISO
4387	Infant cereals with probiotics	PA	PPND	PPND	5	b	ISO
6689	Cocoa mass	NA	NA	PD	10	c	Specific ④
6696	Milk chocolate	PA	ND	PA	10	b	Specific ④
4491	Milk powder	PD	PD	NA	11	a	Specific ⑤
4494	Infant formula with probiotics	ND	PA	ND	11	b	Specific ⑤
4497	Infant formula without probiotics	PD	NA	NA	11	c	Specific ⑤
9521	Rabbit food	PA	PA	ND	12	b	ISO
9524	Rabbit food	PA	ND	PA	12	b	Specific ⑥
4673	Infant formula without probiotics	PA	PA	ND	13	a	General
4677	Infant formula without probiotics	PA	PPND	PPND	13	a	General
5393	Milk powder (26 % fat)	PA	ND	PA	15	c	Specific ⑨
2515	Cocoa liquor	PA	PA	ND	18	a	Specific ⑪
3688	Chocolate mass	ND	PA	PA	19	a	ISO without BACTVIAB PMAxx
3693	Milk chocolate	PA	PA	ND	19	b	
3691	White chocolate	PA	ND	ND	19	b	ISO with BACTVIAB PMAxx
3693	Milk chocolate	ND	ND	PA	19	b	

The analysis of discordant results is given in Table 17 for enrichment broth storage and Table 18 for lysate storage.

**Table 17 - Analysis of discordant results after BPW storage for 72 h at 5 ± 3°C**

Category		PAIRED				UNPAIRED			Combined PAIRED and UNPAIRED			
		N+	(ND+ PPND)-PD	AL	(ND+ PPND)+PD	AL	N+	(ND+ PPND)-PD	AL	N+	(ND+ PPND)-PD	AL
1	Ready to eat and ready to reheat	31	0	3	0	6	0	/	/	31	0	3
2	Meat products	35	1	3	1	6	0	/	/	35	1	3
3	Dairy products	47	1	3	1	6	0	/	/	47	1	6
4	Vegetables and seafood samples	34	2	3	2	6	0	/	/	34	2	3
5	Ingredients and specific products	11	0	3	0	6	22	0	3	33	0	3
	Ingredients and specific products General protocol + ISO	30	-1	3	3	6	0	/	/	30	-1	3
6	Pet food	31	0	3	0	6	0	/	/	31	0	3
7	Environmental samples	31	2	3	2	6	0	/	/	31	2	3
10	Cocoa and chocolates (375g) Specific protocol (4)	0	/	/	/	/	33	1	3	33	1	3
	Cocoa and chocolates (375g) ISO	33	1	3	1	6	0	/	/	33	1	3
11	Milk powders - Specific protocol (5)	0	/	/	/	/	31	-4	3	31	-4	3
12	Pet food (375g) - ISO	33	2	3	2	6	0	/	/	33	2	3
13	Milk powders, infant formula and infant cereals without probiotics including ingredients	31	1	3	1	6	0	/	/	31	1	3
14	Infant formula and infant cereals with probiotics Specific protocol (7)	0	/	/	/	/	33	-3	3	33	-3	3
15	Milk powders, infant formula and infant cereals with or without probiotics including ingredients (excluding whey protein concentrates) Specific protocol (4) + (8)	47	1	3	0	6	32	-3	3	79	-2	4
16	Primary production samples Specific protocol (9)	0	/	/	/	/	32	-7	3	32	-7	3
17	Milk powders, infant formula and infant cereals with or without probiotics, including early life nutrition (375 g) Specific protocol (10)	0	/	/	/	/	32	-4		32	-4	3

Category		PAIRED				UNPAIRED			Combined PAIRED and UNPAIRED				
		N+	(ND+ PPND)-PD	AL	(ND+ PPND)+PD	AL	N+	(ND+ PPND)-PD	AL	N+	(ND+ PPND)-PD	AL	
18	Ingredients for chocolate industry Specific protocol ⑪ 10 h	0	/	/	/	/	31	0	3	31	0	3	
	Ingredients for chocolate industry Specific protocol ⑪ 22 h	0	/	/	/	/	32	-1	3	32	-1	3	
	Ingredients for chocolate industry Specific protocol ⑫	0	/	/	/	/	32	0	3	32	0	3	
19	Chocolate and confectionaries ISO w/o BACTVIAB PMAxx	31	1	3	1	6	/	/	/	31	1	3	
	Chocolate and confectionaries ISO w BACTVIAB PMAxx	31	2	3	2	6	/	/	/	31	2	3	
20	Ingredients Specific protocol ④ w/o BACTVIAB PMAxx	33	2	3	2	6	/	/	/	33	2	3	
	Ingredients Specific protocol ④ w BACTVIAB PMAxx	33	2	3	2	6	/	/	/	33	2	3	
Specific ④ without PMAxx (Cat 10, 15 & 20)											113	4	5 <sup>(1)</sup>
All categories, protocols and incubation times (with or without PMAxx for Cat 19 & 20)											768	-9	16 <sup>(2)</sup>
All categories (General and specific protocols with or without PMAxx for Cat 20)											641	-12	14 <sup>(3)</sup>
All categories (ISO protocols without PMAxx for Cat 19)											116	3	5 <sup>(4)</sup>
All categories (ISO protocols with PMAxx for Cat 19)											116	4	5 <sup>(4)</sup>
12	Pet food - Specific protocol ⑥										33	4	3

<sup>1)</sup> AL for 3 categories

<sup>(2)</sup> AL estimated for 26 categories

<sup>(3)</sup> AL estimated for 22 categories

<sup>(4)</sup> AL estimated for 3 categories



The observed values for  $((ND + PPND) - PD)$  and  $(ND + PPND + PD)$  for the individual categories and for all the categories (excluding pet food analysed with Specific protocol © as  $ND - PD > AL$ ) meet the Acceptability Limits (observed values  $\leq AL$ ).

Table 18 - Analysis of discordant after lysate storage for 72 h at 5 ± 3°C

Category		PAIRED				UNPAIRED			Combined PAIRED and UNPAIRED			
		N+	(ND+ PPND) -PD	AL	(ND+ PPND) +PD	AL	N+	(ND+ PPND) -PD	AL	N+	(ND+ PPND) -PD	AL
1	Ready to eat and ready to reheat	31	0	3	0	6	0	/	/	31	0	3
2	Meat products	35	2	3	2	6	0	/	/	35	2	3
3	Dairy products	47	2	3	2	6	0	/	/	47	2	6
4	Vegetables and seafood samples	34	2	3	2	6	0	/	/	34	2	3
5	Ingredients and specific products	11	0	3	0	6	22	0	3	33	0	3
	Ingredients and specific products General protocol + ISO	30	-1	3	3	6	0	/	/	30	-1	3
6	Pet food	31	0	3	0	6	0	/	/	31	0	3
7	Environmental samples	32	3	3	3	6	0	0	/	32	3	3
10	Cocoa and chocolates (375g) Specific protocol (4)	0	/	/	/	/	34	-1	3	34	-1	3
	Cocoa and chocolates (375g) ISO	33	1	3	1	6	0	/	/	33	1	3
11	Milk powders - Specific protocol (5)	0	/	/	/	/	30	-2	3	30	-2	3
12	Pet food (375g) Specific protocol (6)	0	/	/	/	/	31	3	3	31	3	3
	Pet food (375g) - ISO	33	3	3	3	6	0	/	/	33	3	3
13	Milk powders, infant formula and infant cereals without probiotics including ingredients	31	2	3	2	6	0	/	/	31	2	3
14	Infant formula and infant cereals with probiotics	0	/	/	/	/	33	-3	3	33	-3	3
15	Milk powders, infant formula and infant cereals with or without probiotics including ingredients (excluding whey protein concentrates)	47	0	3	0	6	32	-3	3	79	-3	4
16	Primary production samples	0	/	/	/	/	32	-7	3	32	-7	3
17	Milk powders, infant formula and infant cereals with or without probiotics, including early life nutrition (375 g) Specific protocol (11)	0	/	/	/	/	32	-4	3	32	-4	3

Category		PAIRED				UNPAIRED			Combined PAIRED and UNPAIRED			
		N+	(ND+ PPND) -PD	AL	(ND+ PPND) +PD	AL	N+	(ND+ PPND) -PD	AL	N+	(ND+ PPND) -PD	AL
18	Ingredients for chocolate industry Specific protocol ⑫ 10 h	0	/	/	/	/	31	1	3	31	1	3
	Ingredients for chocolate industry Specific protocol ⑫ 22 h	0	/	/	/	/	32	-1	3	32	-1	3
	Ingredients for chocolate industry Specific protocol ⑬	0	/	/	/	/	32	-1	3	32	-1	3
19	Chocolate and confectionaries ISO w/o BACTVIAB PMAxx	31	2	3	2	6	/	/	/		2	3
	Chocolate and confectionaries ISO w BACTVIAB PMAxx	31	1	3	1	6	/	/	/		1	3
20	Ingredients Specific protocol ④ w/o BACTVIAB PMAxx	33	2	3	2	6	/	/	/		2	3
	Ingredients Specific protocol ④ w BACTVIAB PMAxx	33	2	3	2	6	/	/	/		2	3
Specific ④ without PMAxx (Cat 10, 15 & 20)										114	1	5 <sup>(1)</sup>
All categories, protocols and incubation times (with or without PMAxx for Cat 19 & 20)										799	3	16 <sup>(2)</sup>
All categories (General and specific protocols with or without PMAxx for Cat 20)										672	-3	14 <sup>(3)</sup>
All categories (ISO protocols without PMAxx for Cat 19) (Cat 5,10,12,19)										116	5	5 <sup>(4)</sup>
All categories (ISO protocols with PMAxx for Cat 19) (Cat 5, 10, 12, 19)										116	4	5 <sup>(4)</sup>

<sup>1)</sup> AL for 3 categories

<sup>(2)</sup> AL estimated for 26 categories

<sup>(3)</sup> AL estimated for 22 categories

<sup>(4)</sup> AL estimated for 3 categories

The observed values for ((ND + PPND) - PD) and (ND + PPND + PD) for the individual categories and for all the categories tested meet the Acceptability Limits (observed values  $\leq$  AL).

### 3.1.8 Confirmation

A summary of the differences observed between the different confirmation procedures is given in Table 19.

**Table 19 - Differences observed between the different confirmation procedures**

Category	Confirmation protocol	PA	NA*	PD	ND**	PPNA	PPND	Total	PA +PD
<b>All samples</b>	DS chrom ID	614	805	58	56	16	70	1619	672
	DS XLD	616	809	66	62	19	51	1623	682
	DS ASAP	631	809	67	61	18	37	1623	698
	DS SALMA	146	174	23	21	2	0	366	169
	All confirmatory tests	671	810	70	58	13	1	1623	741

\* PPNA not included

\*\* PPND not included

The higher number of confirmed samples was obtained using ASAP agar plates for direct streaking from the enrichment broth (698 samples confirmed).

For SALMA, less samples were tested as this selective media was tested only with four categories (17, 18, 19 and 20).

For one sample (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 MSR/V 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 samples: 6 concern aromatic herbs and 7 cocoa products.

No inhibition was observed for the primary production samples category.

The number of PCR results obtained depending on the dilution applied is provided in the Table 20.

Table 20 - PCR inhibitions

Year of analysis	Sample N°	Product	General 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/+*/+**	(35,39/34,81/35,8)**	(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
<b>Total</b>	<b>48</b>

## 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

One matrix was tested as a minimum per category. Three inoculation levels were used:

- A blank level, (no contamination), with 5 replicates,
- A low contamination level providing fractional recovery data, with 20 replicates,
- A higher contamination level, with 20 replicates.

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

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

Concentration levels were adjusted accordingly to achieve fractional recovery. A liquid inoculum was used as moistened matrices were tested. *Salmonella* species frequently isolated from the matrix were inoculated.

*Salmonella* was added to the matrix and was allowed to equilibrate with the matrices prior to analysis.

Twenty (matrix/strain) pairs were analyzed by the reference method and by the alternative method (See Table 21) 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.

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

**Table 21 - 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	General, 18h	Paired
2. Meat products	Ground beef	S. Typhimurium A00C060	Ground beef	Seeding 48 h at 5°C ±3°C	25 g	General, 18h	Paired
3. Dairy products	Milk powder	S. Anatum Ad298	Milk powder	Seeding lyophilized strain 2 weeks at ambient temperature	25 g	General, 18h	Paired
	Raw milk	S. Ohio Ad1482	Raw milk	Seeding 48 h at 5°C ±3°C	25 g	General, 18h	Paired
4. Vegetables and seafood	Fresh spinach	S. Virchow Ad1721	Cereals	Seeding 48 h at 5°C ±3°C	25 g	General, 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	General, 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	General, 18h	Paired
7. Production environmental samples	Process water	S. Livingstone A00E058	Dusts	Seeding 48 h at 5°C ±3°C	25 g	General, 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	General 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
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



Category	Matrix	Strain	Origin	Inoculation and storage condition	Test portion size	Protocol	Study design
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
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	Specific ④	Paired

### 3.2.2 Calculation and interpretation of the RLOD

The raw data obtained for the extension study are given in **Appendix 5**. The RLOD calculations were performed using the Excel spreadsheet available at <http://standards.iso.org/iso/16140> - RLOD (clause 5-1-4-2 Calculation and interpretation of RLOD) version 15.08.2015. The RLOD are given in Table 22.

**Table 22 – Presentation of RLOD before and after confirmation of the alternative method results**

Category	Matrix/ strain pair	Study design	AL	RLOD	RLODL	RLODU	b=ln (RLOD)	sd(b)	z-Test statisti c	p-value
1	Deli salad (macedoine)/ S. Mbandaka Ad914 General protocol-25g	Paired	1,5	1,000	0,537	1,862	0,000	0,311	0,000	1,000
2	Ground beef / S. Typhimurium A00C060 General protocol-25g	Paired	1,5	1,000	0,499	2,002	0,000	0,347	0,000	1,000
3	Milk powder / S. Anatum Ad298 General protocol-25g	Paired	1,5	1,142	0,633	2,059	0,133	0,295	0,450	0,653
	Raw milk / S. Ohio Ad1482 General protocol-25g	Paired	1,5	1,546	0,838	2,851	0,435	0,306	1,422	0,155
4	Fresh spinach-General / S. Virchow Ad1721 protocol-25g	Paired	1,5	1,260	0,688	2,307	0,231	0,303	0,763	0,446
5	Pasteurized whole egg / S. Havana Ad1725 General protocol-25g	Paired	1,5	1,000	0,522	1,916	0,000	0,325	0,000	1,000
7	Process water / S. Livingstone A00E058 General protocol-25g	Paired	1,5	1,165	0,591	2,294	0,152	0,339	0,450	0,653
10	Dark chocolate /S. Typhimurium Ad2034 Specific protocol ④ - 375g	Unpaired	2,5	1,931	0,548	6,797	0,658	0,629	1,045	0,296
	Dark chocolate / S. Typhimurium Ad2034 Protocol ISO - 375g	Paired	1,5	1,208	0,394	3,701	0,189	0,560	0,337	0,736
11	Infant formula with probiotics / S. Mikawasima Ad1811 Specific protocol ⑤-375g	Unpaired	2,5	0,187	0,071	0,490	-1,679	0,483	3,478	1,999
6	Pellet for dog / S. Derby Ad1878 General protocol - 25g	Paired	1,5	1,000	0,489	2,044	0,000	0,357	0,000	1,000
12	Pellet for dog / S. Braenderup F286 Specific protocol ⑥ - 375g	Unpaired	2,5	1,531	0,785	2,986	0,426	0,334	1,275	0,202
	Pellet for dog / S. Braenderup F286 Protocol ISO - 375g	Paired	1,5	1,170	0,624	2,195	0,157	0,315	0,499	0,618
13	Infant cereals without probiotics / S. Panama Ad1733 General protocol - 25g	Paired	1,5	1,000	0,423	2,367	0,000	0,431	0,000	1,000
14	Infant formula with probiotics / S. Livingstone Ad2705 Specific protocol ⑦ - 25g	Unpaired	2,5	1,582	0,609	4,113	0,459	0,478	0,960	0,337
15	Infant formula with probiotics / S. Mbandaka Ad1810 Specific protocol ⑧ - 375g	Unpaired	2,5	0,353	0,157	0,790	-1,042	0,403	2,584	1,990

Category	Matrix/ strain pair	Study design	AL	RLOD	RLODL	RLODU	b=ln (RLOD)	sd(b)	z-Test statistic	p-value
	Maltodextrin / S. Cerro Ad2152 Specific protocol ⑨ - 375g	Paired	1,5	1,000	0,385	2,599	0,000	0,478	0,000	1,000
16	Bootssocks / S. Djugu Ad2969 Specific protocol ⑩	Unpaired	2,5	0,868	0,355	2,123	-0,142	0,447	0,316	1,248
17	Infant formula with probiotics S. Livingstone Ad2005 Specific protocol ⑪	Unpaired	2,5	1,151	0,519	2,553	0,141	0,398	0,354	0,723
18	Cocoa powder S. Typhimurium Ad3034 Specific protocol ⑫ 10 h	Unpaired	2,5	2,000	0,852	4,696	0,693	0,427	1,624	0,104
	Cocoa powder S. Typhimurium Ad3034 Specific protocol ⑫ 22 h	Unpaired	2,5	1,901	0,885	4,083	0,642	0,382	1,681	0,093
	Cocoa powder S. Typhimurium Ad3034 Specific protocol ⑬	Unpaired	2,5	1,901	0,885	4,083	0,642	0,382	1,681	0,093
19	Cocoa powder S. Typhimurium Ad3034 ISO With or without BACTVIAB PMAxx	Paired	1,5	1,000	0,480	2,085	0,000	0,367	0,000	1,000
20	Maltodextrin S. Cerro Ad2152 Specific protocol ④ With or without BACTVIAB PMAxx	Paired	1,5	1,000	0,471	2,121	0,000	0,376	0,000	1,000
<b>Combined (all protocols and incubation times)</b>		/	/	1,059	0,919	1,220	0,057	0,071	0,812	0,417

The LOD<sub>50</sub> % calculations according to Wilrich & Wilrich POD-LOD calculation program - version 11, 2022-10-12 test are given in Table 23.

**Table 23 - LOD<sub>50</sub> results**

Category	Food item	Strain	Protocol	Level of detection at 50 % (CFU / sample size) according to Wilrich & Wilrich <sup>1</sup>	
				Reference method	Alternative method
1	RTE/RTHE	Deli salad (macédoine) 25g	S. Mbandaka Ad914	General	1.0 [0.7-1.5] 1.0 [0.7-1.5]
2	Meat	Ground beef 25g	S. Typhimurium A00C060	General	0.5 [0.3-0.7] 0.5 [0.3-0.7]
3	Dairy	Milk powder 25g	S. Anatum Ad298	General	0.5 [0.3-0.7] 0.5 [0.3-0.8]
		Raw milk 25g	S. Ohio Ad1482	General	1.4 [0.9-2.2] 2.2 [1.4-3.6]
4	Vegetables/Seafood	Fresh spinach 25g	S. Virchow Ad172	General	0.7 [0.5-1.1] 0.9 [0.6-1.4]
5	Ingredients and specific products	Pasteurized whole egg 25g	S. Havana Ad1725	General	1.1 [0.7-1.7] 1.1 [0.7-1.7]

<sup>1</sup> 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	Food item	Strain	Protocol	Level of detection at 50 % (CFU / sample size) according to Wilrich & Wilrich <sup>1</sup>		
				Reference method	Alternative method	
7	Environment	Process water 25ml	S. Livingstone A00E058	General	1.2 [0.8-2.0]	1.4 [0.9-2.4]
10	Cocoa and chocolates	Chocolate 375g	S. Typhimurium Ad2034	Specific <sup>④</sup>	1.2 [0.6-2.3]	1.8 [1.0-3.1]
		Chocolate 375g	S. Typhimurium Ad2034	ISO	1.2 [0.6-2.3]	1.4 [0.7-2.6]
11	Milk powders, infant formula and infant cereals with or without probiotics	Infant formula with probiotics 375g	S. Mikawasima Ad1811	Specific <sup>⑤</sup>	1.0 [0.6-1.6]	0.2 [0.1-0.3]
6	Pet food	Pellet for dog 25g	S. Derby Ad1878	General	1.0 [0.6-1.6]	1.0 [0.6-1.6]
12	Pet food	Pellet for dog 375g	S. Braenderup F286	Specific <sup>⑥</sup>	1.2 [0.8-1.9]	1.9 [1.1-3.0]
		Pellet for dog 375g	S. Braenderup F286	ISO	1.2 [0.8-1.9]	1.4 [0.9-2.3]
13	Milk powders, infant formula and infant cereals without probiotics including ingredients	Infant cereals without probiotics 25g	S. Panama Ad1733	General	0.8 [0.4-1.5]	0.8 [0.4-1.5]
14	Infant formula and infant cereals with probiotics	Infant formula with probiotics 25g	S. Livingstone Ad2705	Specific <sup>⑦</sup>	0.4 [0.2-0.8]	0.7 [0.3-1.3]
15	Milk powders, infant formula and infant cereals with or without probiotics including ingredients	Infant formula with probiotics 375g	S. Mbandaka Ad1810	Specific <sup>⑧</sup>	0.5 [0.3-0.8]	0.2 [0.1-0.3]
		Maltodextrin 375g	S. Cerro Ad2152	Specific <sup>⑨</sup>	1.3 [0.7-2.4]	1.3 [0.7-2.4]
16	Primary production samples (excluding drinking water)	Bootsocks	S. Djugu Ad2969	Specific <sup>⑩</sup>	0.7 [0.4-1.2]	0.6 [0.4-1.1]
17	Milk powders, infant formula and infant cereals with and without probiotics, ELN	Infant formula with probiotics 375 g	S. Livingstone Ad2705	Specific <sup>⑪</sup>	0.1 [0.1-0.3]	0.2 [0.1-0.3]
18	Ingredients for chocolate industry	Cocoa powder S. Typhimurium Ad3034 10 h	S. Typhimurium Ad3034	Specific <sup>⑫</sup> 10 h	0.3 [0.2-0.6]	1.0 [0.6-1.9]
		S. Typhimurium Ad3034 Specific protocol <sup>⑫</sup> 22 h	S. Typhimurium Ad3034	Specific <sup>⑫</sup> 22 h	0.3 [0.2-0.6]	0.8 [0.4-1.3]
		Cocoa powder S. Typhimurium Ad3034 Specific protocol <sup>⑬</sup>	S. Typhimurium Ad3034	Specific <sup>⑬</sup>	0.3 [0.2-0.6]	0.8 [0.4-1.3]
19	Chocolate and confectionaries	Cocoa powder With or without BACTVIAB PMAxx	S. Typhimurium Ad3034	ISO	1.2 [0.7-2.0]	1.2 [0.7-2.0]
20	Ingredients	Maltodextrin With or without BACTVIAB PMAxx	S. Cerro Ad2152	Specific <sup>④</sup>	0.7 [0.4-1.3]	0.7 [0.4-1.3]

**The RLOD meet 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 LOD<sub>50</sub> 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 10<sup>5</sup> 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.

<b>Storage conditions, shelf-life and modalities of utilisation after first use</b>	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)					
<b>Time to result</b>	Steps	Reference method	Alternative method			
			8 h	24 h	PPS protocol	Specific <sup>(1)</sup> 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)
<b>Common step with the reference method</b>	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 24.

**Table 24 - 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
<b>Negative result</b>	<ul style="list-style-type: none"> <li>• No melt peak detected</li> <li>• Peak outside of a defined TM range (50°C - 70°C)</li> <li>• Height of the peak lower than the negative threshold</li> </ul>	<ul style="list-style-type: none"> <li>• No melt peak detected</li> <li>• Peak outside of a defined TM range (50°C - 70°C)</li> <li>• Height of the peak lower than the negative threshold</li> </ul>
<b>Positive result</b>	<ul style="list-style-type: none"> <li>• Melt peak inside the TM range values</li> <li>• Peak higher than the negative threshold</li> </ul>	<ul style="list-style-type: none"> <li>• Melt peak inside the TM range values</li> <li>• Peak higher than the negative threshold (increased for the internal control to better detect inhibitions)</li> <li>• Curve crosses a new positive threshold</li> <li>• Specific access to individual assays, which provides more flexibility</li> </ul>

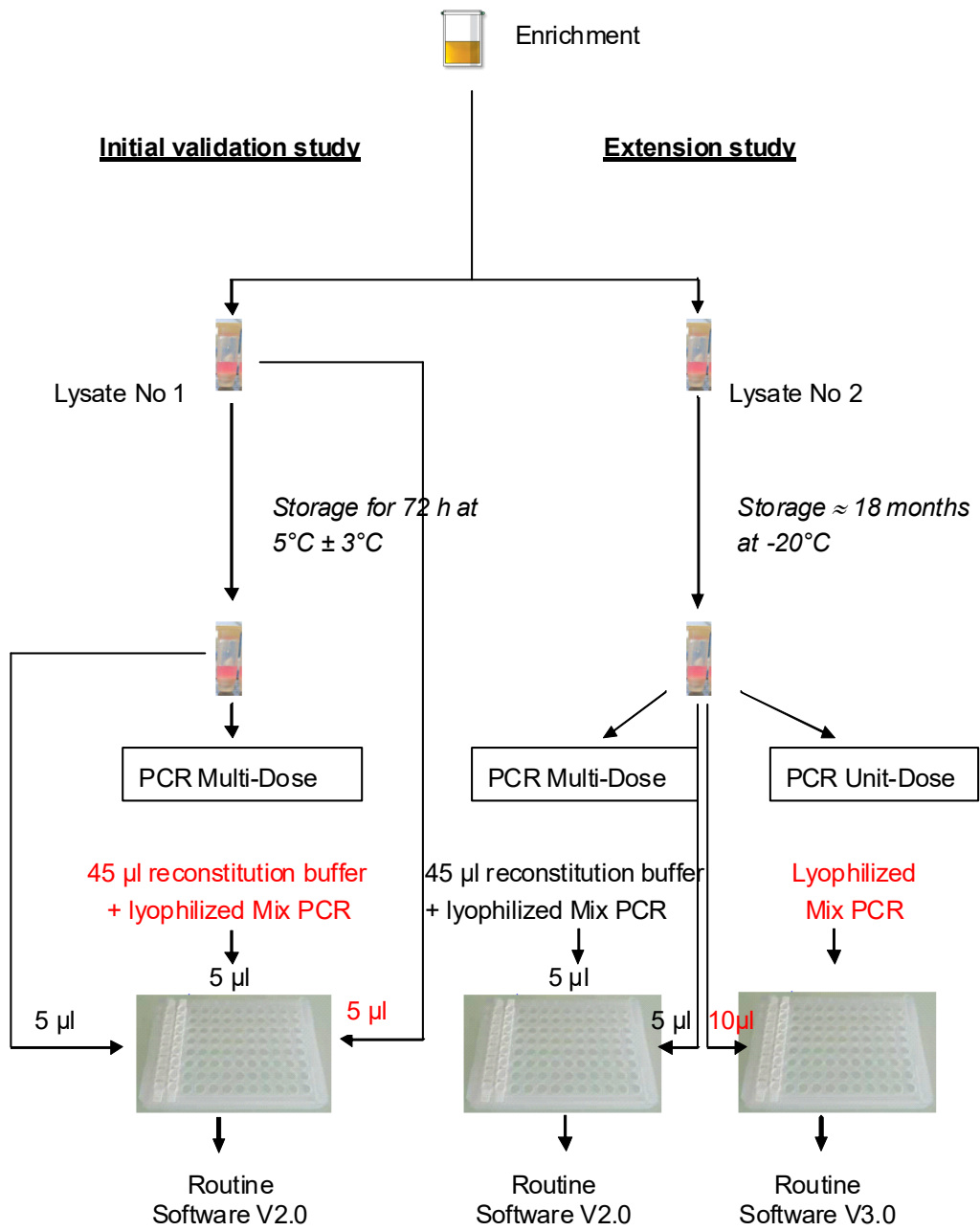
## 4.1 Analysis

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 25.

**Table 25 - 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	General	30	32	0	0	62
2	Meat products	General	34	51	0	0	85
3	Dairy products	General	45	45	0	2	92
4	Vegetables and seafood samples	General	35	30	1	0	66
5	Ingredients and specific products	General	31	35	2	0	68
		ISO	31	32	4	1	68
6	Pet foods	General	31	34	0	0	65
7	Production environmental samples	General	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	General	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
<b>All categories</b>			<b>534</b>	<b>609</b>	<b>14</b>	<b>9</b>	<b>1166</b>

\* PPNA not included

\*\* PPND not included

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 26 for negative deviations and Table 27 for positive deviations.

Table 26 - 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			
General	4244	Baby leaves	-	0	0	-	-	-	NA	36/0/0	66.39/0/0	+/-/-	0	0	-	ND	4	b
General	4695	Cocoa powder	-	(32,99/36,12/0)**	(64,03/66,76/0)**	i/i*/(+/-/-)**	- (MSRV -)	-	PPNA	0/0*/35,82*	0/0*/66,89**	i/i*/+**	0/0*/0**	0/0*/0**	i/i*/-**	ND	5	a
General	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
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*	0/66,09*/0**	i/+*/i**	0/0*/0**/0***	0/0*/0**/0***	i/i*/i**/-***	ND	5	a
General	7350	Process water (swine industry)	+	34,46	66,04	+	+	+	PA	35.89	65.7	+	0/0/0	0/0/0	-/-/-	ND	7	b
General	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
General	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	-/+/-	+	-	NA	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	Caseine	-	0	0	-	-	-	NA	30.64/0/0	66.56/0/0	+/-/-	0	0	-	ND	15	c

Table 27 - 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			
General	2138	Raw cream	+	0/0/35,21	0/0/67,46	-/-/+	+	-	ND	0	0	-	35.79	66.3	+	PD	3	b
General	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	0	0	-	35.97	66.06	+	PD	11	b
⑤	7890	Infant formula with probiotics (<2,0.10 <sup>3</sup> 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  
 ADRIA  
 Summary report (Version 0) - 37°C  
 GENE-UP® Salmonella (BIO 12/38 - 06/16)

### > 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 28).

**Table 28 – 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	General	-	-	-	-	NA	+/-/-	-	ND	NA	4	b
4695	Cocoa powder	General	-	i/i*/(+/-/-)**	-(MSRV -)	-	PPNA	i/i*/+**	i/i*/-**	ND	NA	5	a
4697	Oregano	General	-	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	5	a
4697	Oregano	ISO	-	i/-*/i**/-***	-	-	NA	i/+*/i**	i/i*/i**/-***	ND	NA	5	a
7350	Process water (swine industry)	General	+	+	+	+	PA	+	-/-/-	ND	ND	7	b
7789	Wipe after cleaning (delicatessen industry)	General	+	+	+	+	PA	+	-/+/+	ND	ND	7	c
7790	Wipe after cleaning (delicatessen industry)	General	+	+	+	+	PA	+	-/+/+	ND	ND	7	c
6689	Cocoa mass	Specific (4)	-	-/+/-	+	-	NA	+	-/+/+	ND	ND	10	c
7052	Dark chocolate	Specific (4)	-	-	-	-	NA	+/-/-	-	ND	NA	10	b
9522	Guinea pig food	ISO	+	-/-/+	-	-	ND	+	-	ND	NA	12	b
4996	Caseine	Specific (8)	-	-	-	-	NA	+/-/-	-	ND	NA	15	c
2138	Raw cream	General	+	-/-/+	+	-	ND	-	+	PD	PD	3	b
2399	Raw ewe milk cheese	General	-	-	-	-	NA	-	+/-/-	PD	NA	3	b
4384	Cereals with probiotics	ISO	-	+/-/-	+	+	PD	-	+	PD	PD	5	b

♦ Analyses performed according to the COFRAC accreditation



Sample N°	Product	Protocol	Reference method: ISO 6579 <sup>♦</sup>	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	-	+	PD	PD	11	b
7890	Infant formula with probiotics (<2,0.10 <sup>3</sup> CFU/g)	Specific ⑤	-	-	-	-	NA	-	+/-/-	PD	NA	11	c
3635	Whey	Specific ⑧	-	-	-	-	NA	-	+/+/+	PD	NA	15	c

For the **General 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.

For 3 samples (7214, 3075, 4699), the confirmatory tests were negative. 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.

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

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 29).

**Table 29 - 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				
7785	Ready to reheat food	General	+	-/-	+	-	ND	-	+	PD	PD	1	b
7214	Raw hen leg	General	-	-	-	-	NA	-/+	+	PD	NA	2	b
747	Sausages	General	+	-/-	+	-	ND	-	+	PD	PD	2	c
4247	Sprouts	General	+	-/-	+	-	ND	-	+	PD	PD	4	b
3075	Curry	General	-	-	-	-	NA	-	i/(+/-)*	PD	NA	5	a
4699	Chinese spices	General	-	-	-	-	NA	-	+/-	PD	NA	5	a
5625	Infant formula with probiotics (7,1.10 <sup>3</sup> CFU/g)	General	+	-/-	+	-	ND	-	+	PD	PD	5	b
2084	Milk powder	General	-	-	-	-	NA	+/-	-	ND	NA	3	b
2977	Sprouts	General	-	+	+	+	PD	+	-/-	ND	ND	4	b
4697	Oregano	General	-	i/i*/i**/_***	-	-	NA	i/i*/i**/_***	i/i*/i**/i***/-	ND	NA	5	a
5621	Cocoa powder	General	-	i/i*/+**	+	+	PD	i/i*/+**	i/i*/i**/_***	ND	ND	5	a
7884	Fresh seasoned ground beef	Specific ①	+	-/-	-	-	ND	-	+	NA	PD	8	c
7337	Frozen ground beef	Specific ①	+	-	-	-	ND	-	+/-	PD	NA	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	-	+	PD	PD	9	a
4366	Pork trim	Specific ②	-	-/+	+	-	NA	-	+	PD	PD	9	a
4371	Frozen ground beef	Specific ②	+	-/+	+	-	ND	-	+	PD	PD	9	b
4373	Frozen ground veal	Specific ②	+	-/+	+	-	ND	-	+	PD	PD	9	b

♦ Analyses performed according to the COFRAC accreditation

**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 30 for an incubation at 37°C.

**Table 30 - PCR inhibitions**

**Initial validation study**

Sample N°	Product	General 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
*=Lysate 1 :3	7
**=Enrichment 1 :10	14
***=Lysate 1:3 of enrichment 1:10	3
Total	24 (Percentage of inhibition: 2.1 %)

**Extension study**

Sample N°	Product	General 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/-*
<b>4488</b>	<b>Skim milk powder</b>	⑤	27.49	65.45	+	0/26,84*	0/65,34*	i/+*
<b>17195</b>	<b>Skim milk powder</b>	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 <sup>5</sup> 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 <sup>4</sup> CFU/g)	⑧	0	0	-	0/0*	0/0*	i/-*
4388	Infant formula with probiotics	General	0/0*/0****	0/0*/0****	i/i*/-****	0	0	-
<b>4730</b>	<b>Pasteurized egg yolk</b>	General	0/0	0/0	i/-*	0	0	-
5213	Whole egg powder	General	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 (Percentage of inhibition: 2.5 %)	49 (Percentage of inhibition: 4.2 %)

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 (clause 5-1-4-2 Calculation and interpretation of RLOD) version 15.08.2015. The RLOD are given in Table 31.

**Table 31 – Presentation of RLOD before and after confirmation of the alternative method results**

Matrix/strain pair	AL	RLOD	RLODL	RLODU	b=ln(RLOD)	sd(b)	z-Test statistic	p-value
Multi-dose - Initial validation study - Raw milk-General protocol-25g	1,5	1,546	0,838	2,851	0,435	0,306	1,422	0,155
Multi-dose - Extension study - Raw milk-General protocol-25g	1,5	1,232	0,678	2,240	0,209	0,299	0,699	0,484
Unit-dose - Extension study - Raw milk-General protocol-25g	1,5	1,000	0,558	1,791	0,000	0,292	0,000	1,000

The results obtained with the unit dose kit are better than those obtained with the multi-dose kit (2 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 Tm 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 23<sup>rd</sup> 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 24<sup>th</sup> May or Wednesday 25<sup>th</sup> 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 32):

**Table 32 - 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 33).

**Table 33 – *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 <sup>2</sup>
	150	+	
	130	+	
Day 1	180	-	1.6 10 <sup>3</sup>
	140	+	
	150	+	
Day 2	70	+	2.7 10 <sup>3</sup>
	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 34.

**Table 34 - 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	25/05/2016
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 35.

**Table 35 – 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 36 (reference method) and Table 37 (alternative method).

**Table 36 - 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
<b>Total</b>	<b>P<sub>0</sub> = 7</b>	<b>P<sub>1</sub> =100</b>	<b>P<sub>2</sub> =104</b>

**Table 37 - 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
<b>Total</b>	<b>P<sub>0</sub> =5</b>	<b>CP<sub>0</sub> =2</b>	<b>P<sub>1</sub> =96</b>	<b>CP<sub>1</sub> =96</b>	<b>P<sub>2</sub> =102</b>	<b>CP<sub>2</sub> =104</b>

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 disturbed<sup>2</sup> 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 38 and 39.

**Table 38 – 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
<b>Total</b>	<b>P<sub>0</sub> = 0</b>	<b>P<sub>1</sub> = 76</b>	<b>P<sub>2</sub> = 80</b>

<sup>2</sup> Somebody spoke to him when he was filling the strip tubes

**Table 39 – 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
<b>Total</b>	<b>P<sub>0</sub>=0</b>	<b>C P<sub>0</sub>=0</b>	<b>P<sub>1</sub>=76</b>	<b>CP<sub>1</sub>=76</b>	<b>P<sub>2</sub>=80</b>	<b>CP<sub>2</sub>=80</b>

## 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 40).

**Table 40 - 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

P<sub>0</sub> = total number of false-positive results obtained with the blank samples before confirmation

CP<sub>0</sub> = total number of false-positive results obtained with the blank samples

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

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 41.

**Table 41 – Summary of the obtained results with the reference method and the alternative method for Level 1**

Response	Reference method positive (R+)	Reference method negative (R-)
Alternative method positive (A+)	Positive agreement (A+/R+) <b>PA = 73</b>	Positive deviation (R-/A+) <b>PD = 3</b>
Alternative method negative (A-)	Negative deviation (A-/R+) <b>ND = 3</b>	Negative agreement (A-/R-) <b>NA = 1</b>

Based on the data summarised in Table 41, the sensitivity values of the alternative and reference methods, as well as the relative trueness and false positive ratio for the alternative method taking account of the confirmations, are the following (See Table 42):

**Table 42**

Sensitivity for the alternative method:	$SE_{alt} = \frac{(PA+PD)}{(PA+PD+ND)} \times 100\% =$	96.2%
Sensitivity for the reference method:	$SE_{ref} = \frac{(PA+ND)}{(PA+PD+ND)} \times 100\% =$	96.2%
Relative trueness	$RT = \frac{(PA+NA)}{N} \times 100\% =$	92.5%
False positive ratio for the alternative method	$FPR = \frac{FP}{NA} \times 100\% =$	0%

### 5.4.3 Interpretation of data

For Level 1, the negative deviations are listed in Table 43 and the positive deviations in Table 44.

**Table 43 – Negative deviations**

Lab	Sample N°
A	A2
C	C12
K	K2

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

**Table 44 – Positive deviations**

Lab	Sample N°
B	B2
D	D3
I	I17

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

$$(p+)_{ref} = \frac{P_x}{N_x}$$

where

$P_x$  = number of samples with a positive result obtained with the reference method at level  $L_1$  for all laboratories

$N_x$  = number of samples tested at level  $L_1$  with the reference method by all laboratories.

$$(p+)_{alt} = \frac{CP_x}{N_x}$$

where

$CP_x$  = number of samples with a confirmed positive result obtained with the alternative method at level  $L_1$  for all laboratories;

$N_x$  = number of samples tested at level  $L_1$  with the alternative method by all laboratories.

$$(ND-PD)_{max} = \sqrt{3N_x \times \left( (p+)_{ref} + (p+)_{alt} - 2 \left( (p+)_{ref} \times (p+)_{alt} \right) \right)}$$

where

$N_x$  = the total number of samples tested for level  $L_1$  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 EN ISO 16140-2:2016 (See Table 45).

**Table 45 - Calculations**

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

The EN ISO 16140-2:2016 requirements are fulfilled as (ND - 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<sub>50%</sub>, LOD<sub>95%</sub> and RLOD between laboratories

The RLOD was calculated using the EN ISO 16140-2:2016 Excel spreadsheet available at [https://standards.iso.org/iso/16140/-5/ed-1/en/RLOD\\_inter-lab-study\\_16140-2\\_AnnexF\\_ver1\\_28-06-2017.xls](https://standards.iso.org/iso/16140/-5/ed-1/en/RLOD_inter-lab-study_16140-2_AnnexF_ver1_28-06-2017.xls). The results are used only for information (see Table 46).

**Table 46 - RLOD**

Method	LOD 50%	LOD 95%	RLOD
Reference	0,58	2,50	1.00
Alternative	0,58	2,50	

## 6 CONCLUSION

The **method comparison study conclusions** are:

- In the sensitivity study, 20 categories were tested: 17 food categories, pet food, production environmental samples and primary productions samples.  
One category was tested with two enrichment and lysis protocols (Category 18: Raw material for chocolate industry).  
Two categories were tested with or without applying the optional BACTVIAB PMAxx extraction protocol: chocolate and confectionaries and ingredients.
- The observed values for  $((ND + PPND) - PD)$  and  $((ND + PPND) + PD)$  for the 20 individual categories and for all the categories meet the Acceptability Limits (observed values  $\leq$  AL).
- The RLOD meet the Acceptability Limits (observed values  $\leq$  AL) for all the matrix/strain pairs tested except for raw milk 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  $41.5^{\circ}\text{C}$ ): 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 for 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 EN ISO 16140-2:2016 and AFNOR technical rules (Revision 6).


The **extension No 6 study 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<sub>m</sub> 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 EN ISO 16140-2:2016 requirements.  
**The GENE-UP® *Salmonella* 2 method is considered equivalent to the ISO standard.**

Quimper, 21 December 2023

Florian QUERO  
Technical Study Manager  
  
Validation of Alternative methods

Maryse RANNOU  
Project Manager  
Validation of Alternative methods  


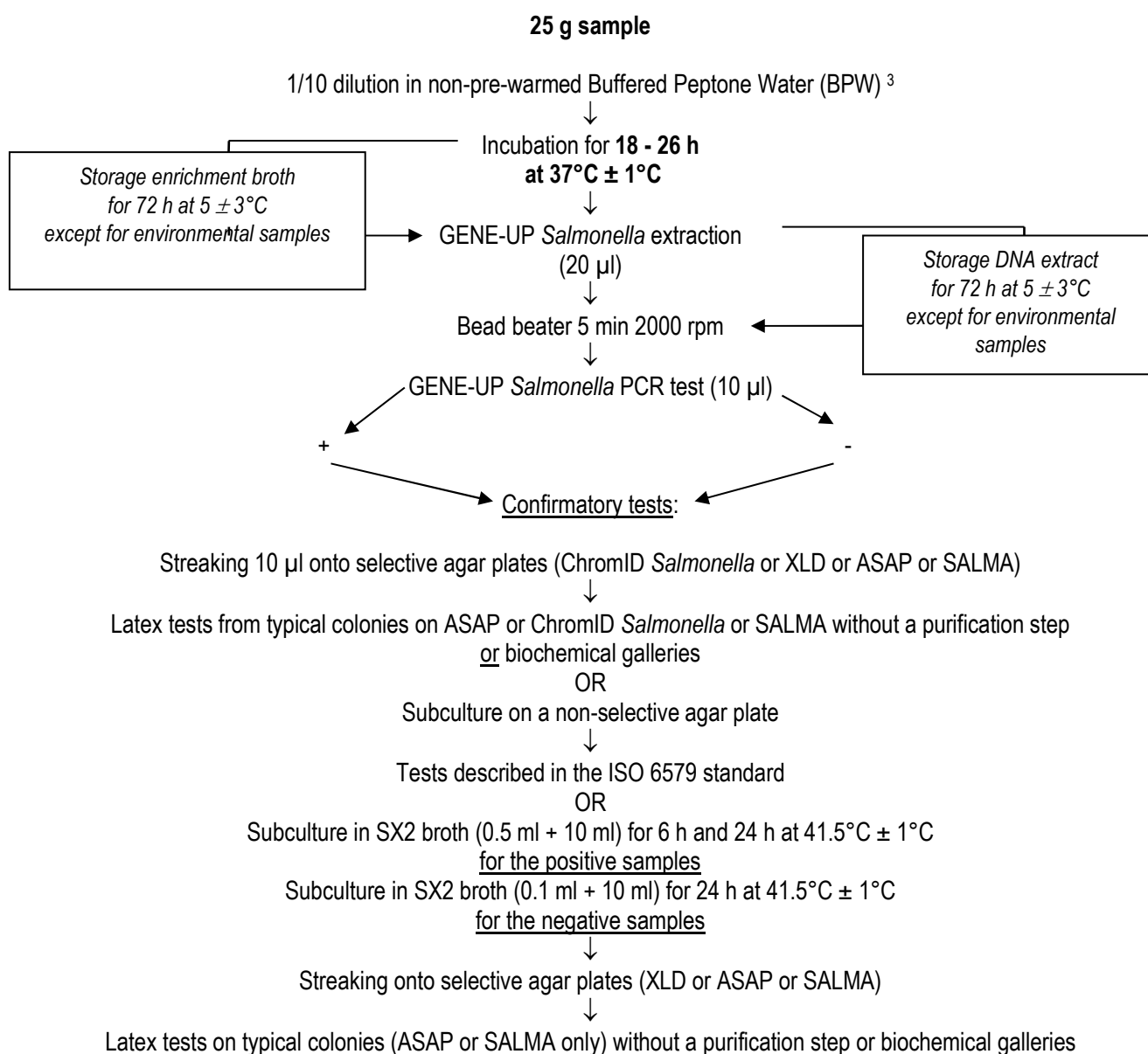
I hereby attest to the validation of the results of the analyses carried out under the COFRAC accreditation.

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

**Appendix 1 – Flow diagrams of the alternative method:**

**GENE-UP® *Salmonella***

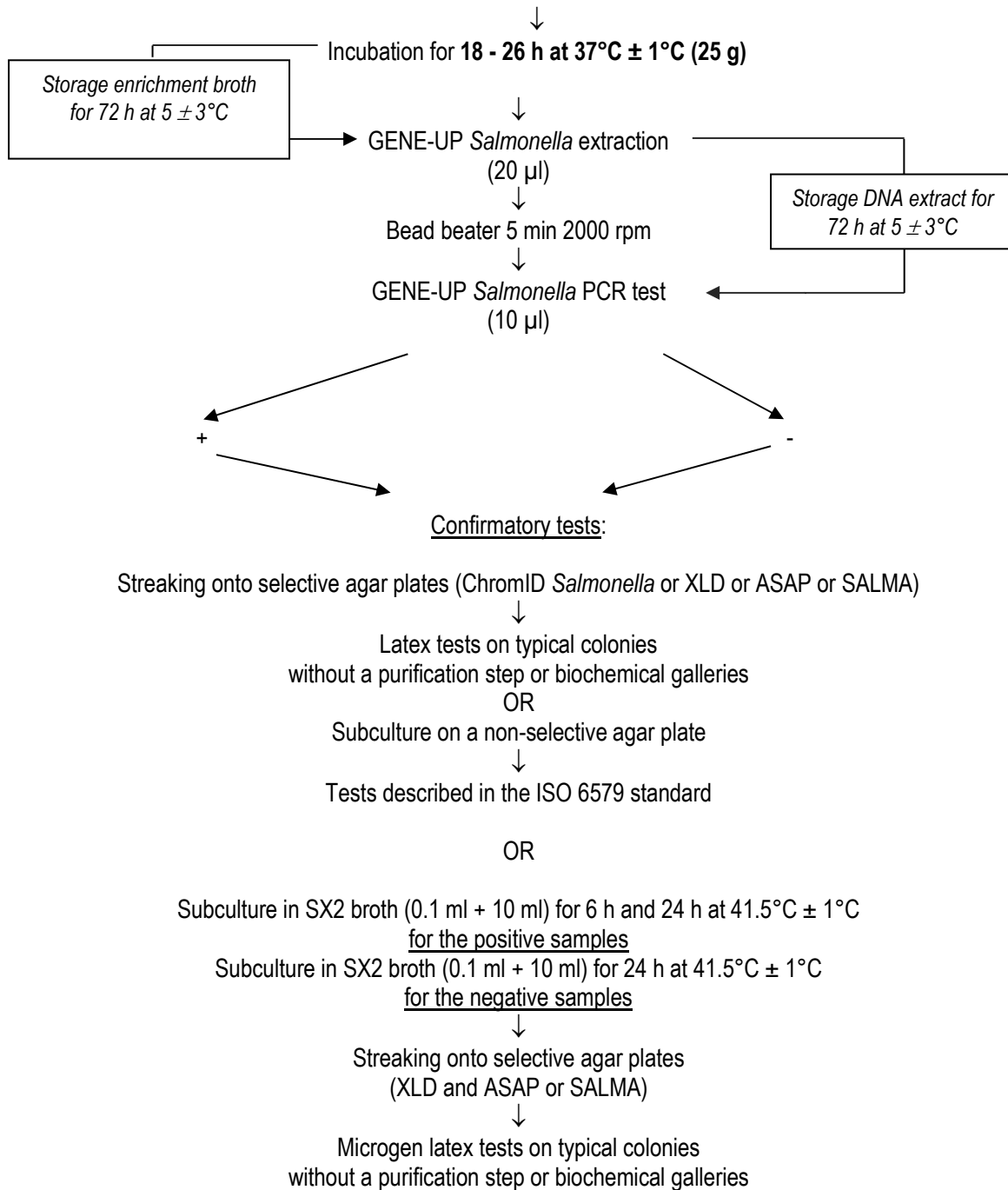
**General protocol - 37°C:**  
**Ready to eat and ready to reheat foods**  
**Meat products**  
**Dairy products**  
**Vegetables (except sprouts), fruits and seafood**  
**Specific ingredients and foods**  
**Production environmental samples**  
**Pet foods**  
**Milk powders, infant formula and infant cereals**  
**without probiotics including ingredients**



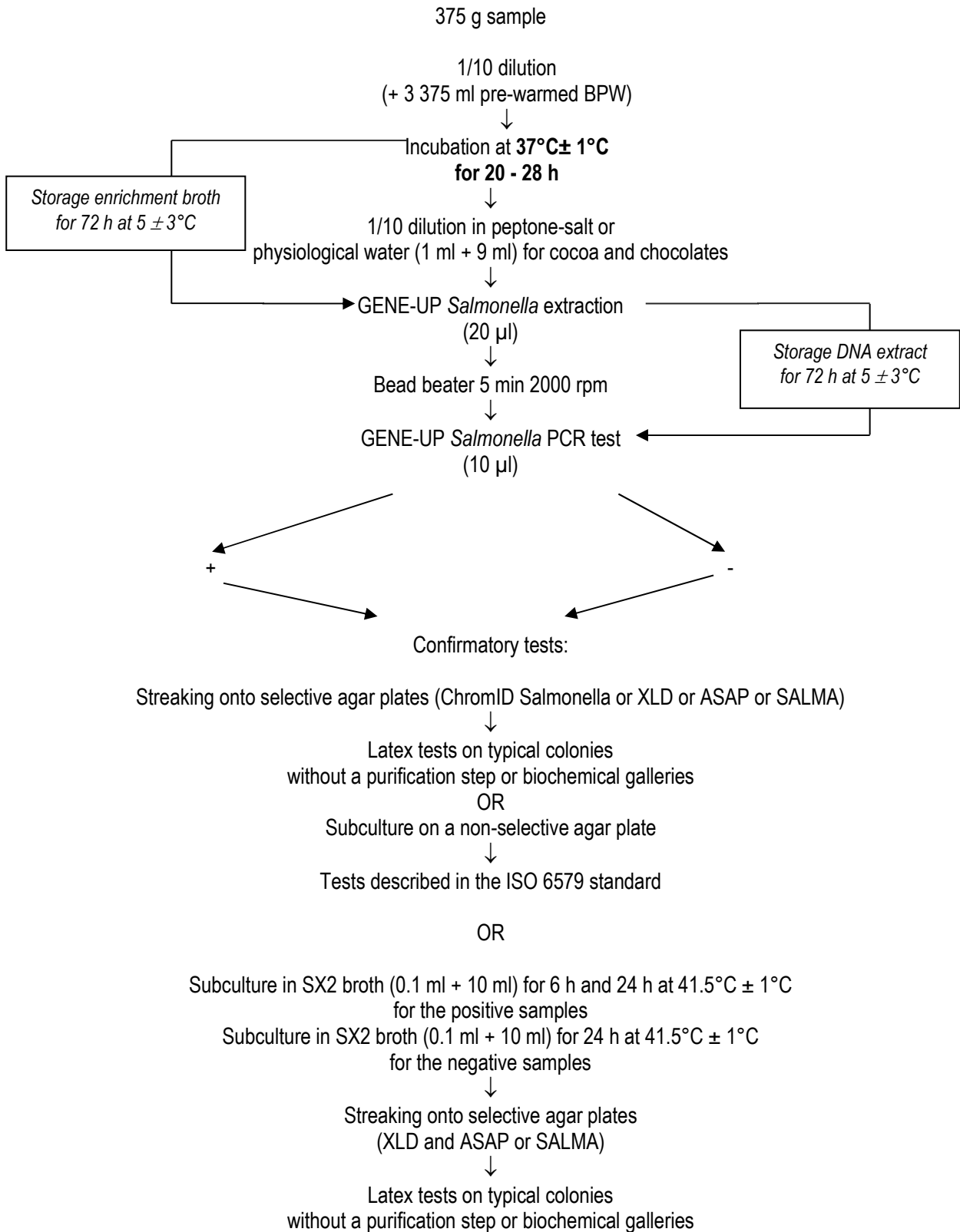
<sup>3</sup> Addition of α-amylase for infant cereals (0.1 g/l)

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

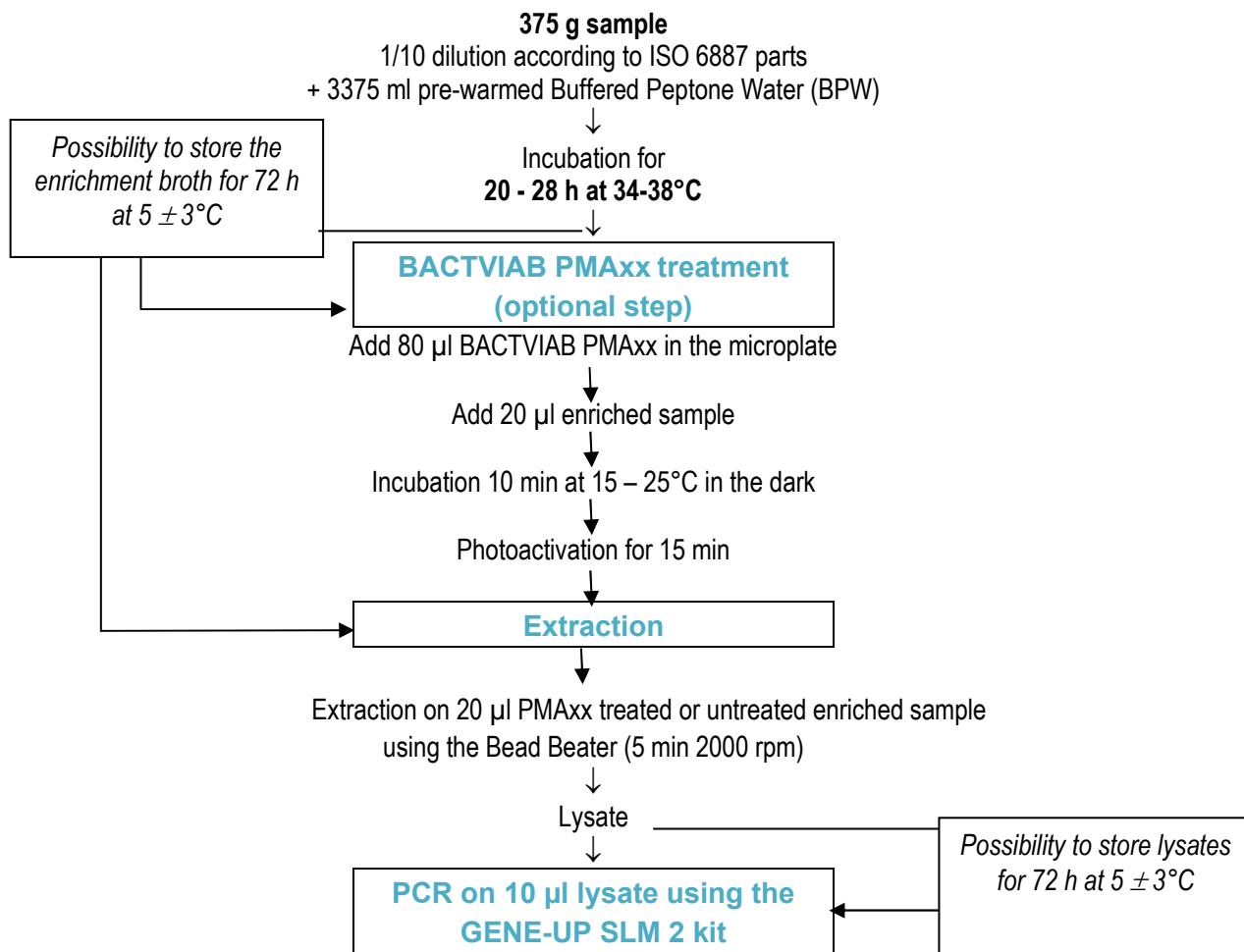
**25 g sample + 225 ml BPW or specific preparation according to ISO 6887 parts**



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



**Specific protocol ④**  
**Ingredients**



Confirmatory tests:

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

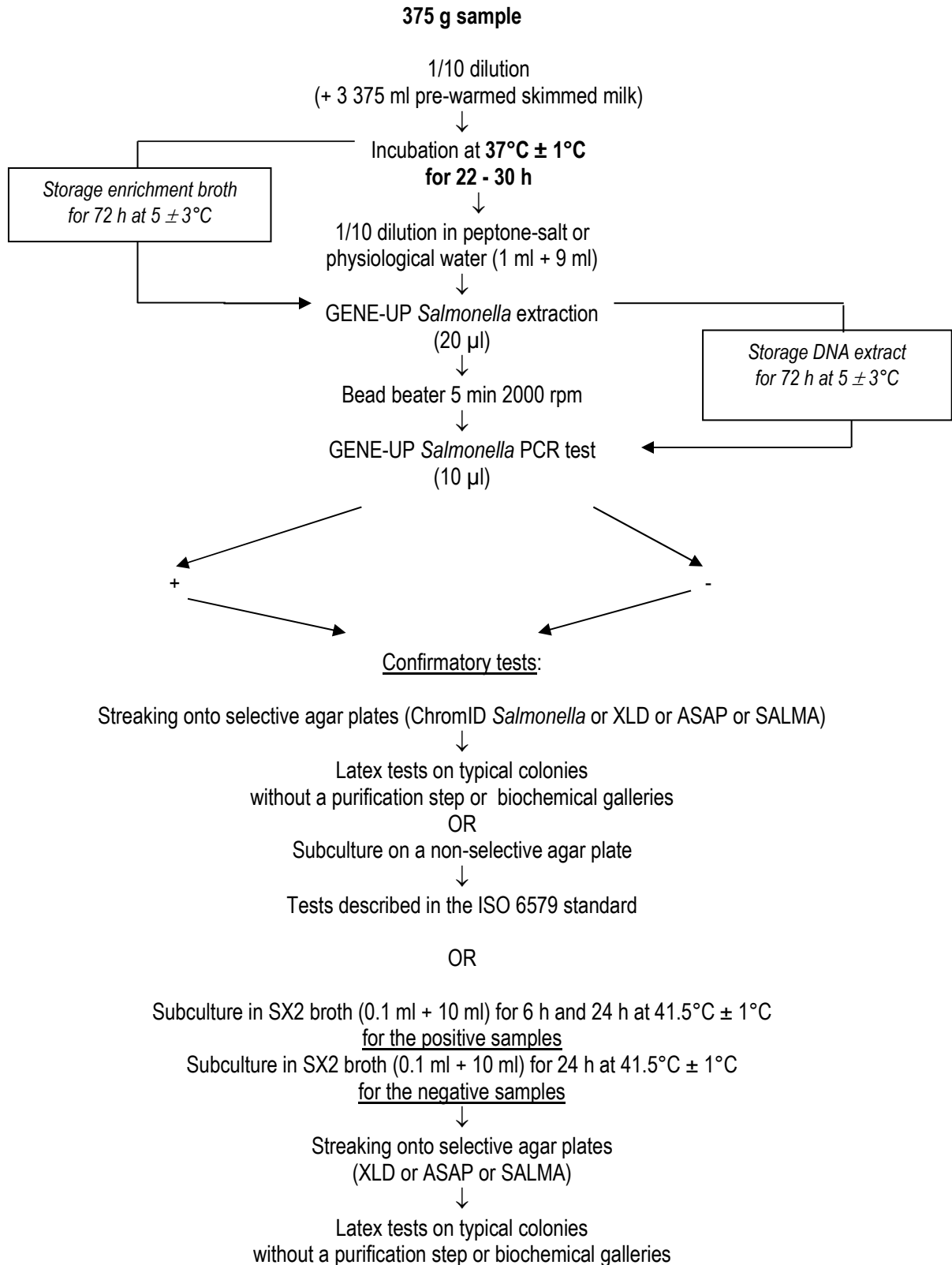
Subculture in SX2 broth (0.5 ml + 10 ml) for 6 h to 24 h at 41.5°C ± 1°C before  
streaking onto selective agar plates (XLD or ASAP or SALMA)

↓

The typical colonies are confirmed by:  
latex test from Chromogenic agars

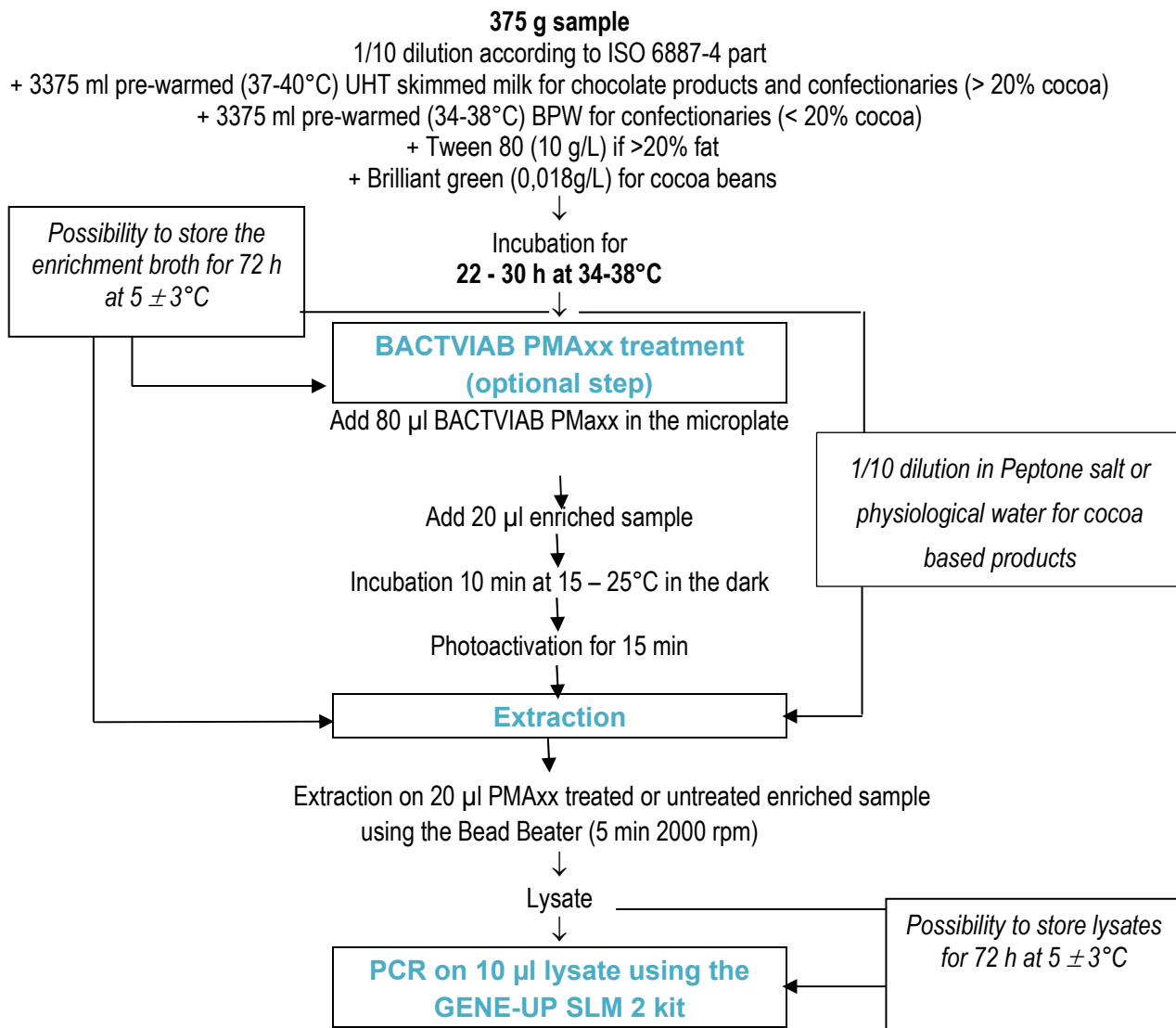
Or biochemical gallery without purification step from selective agar plates  
Or the tests described in the standardized methods (CEN or ISO)

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





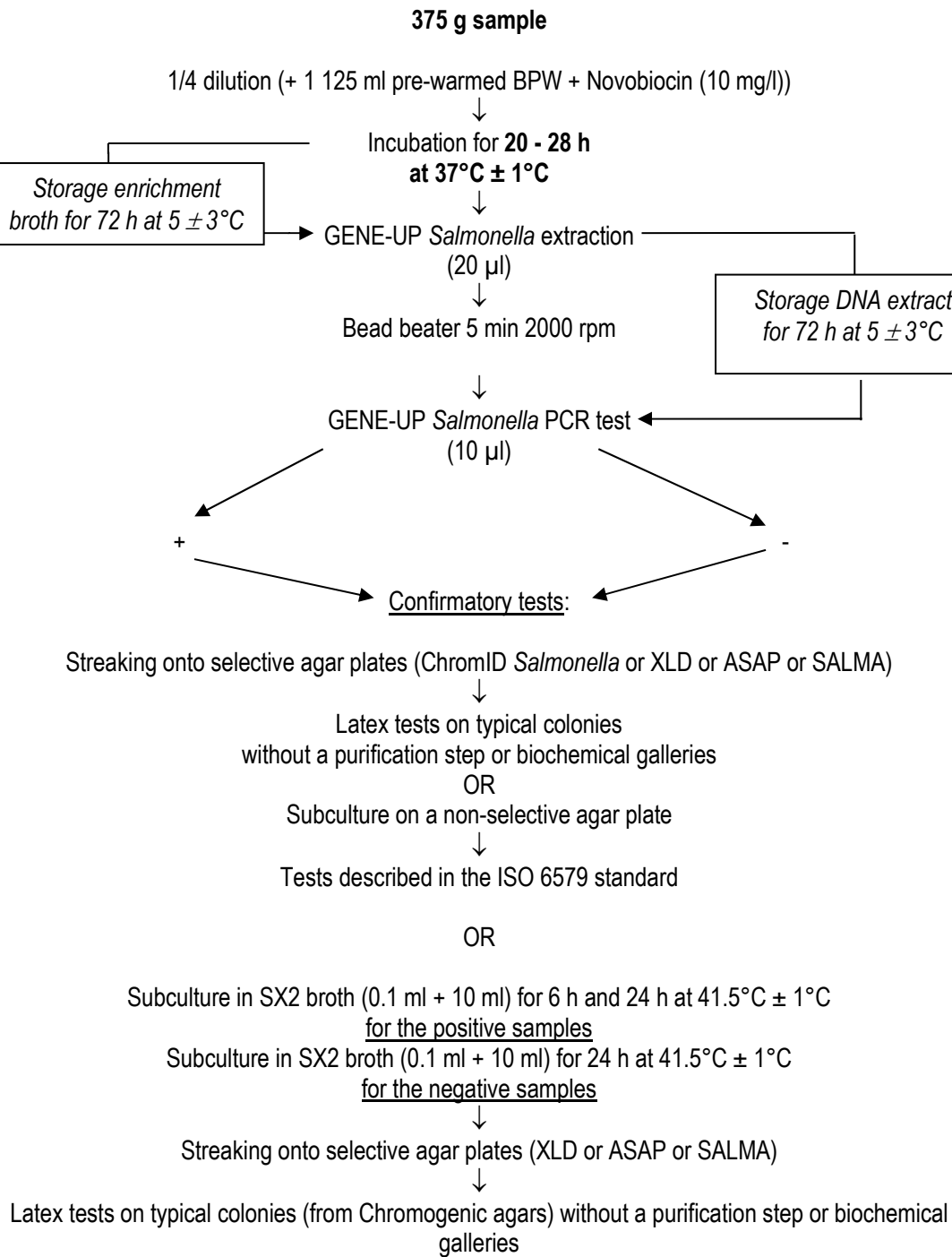
**ISO 6579-1 and ISO 6887-4 protocol  
Chocolates and confectionaries**



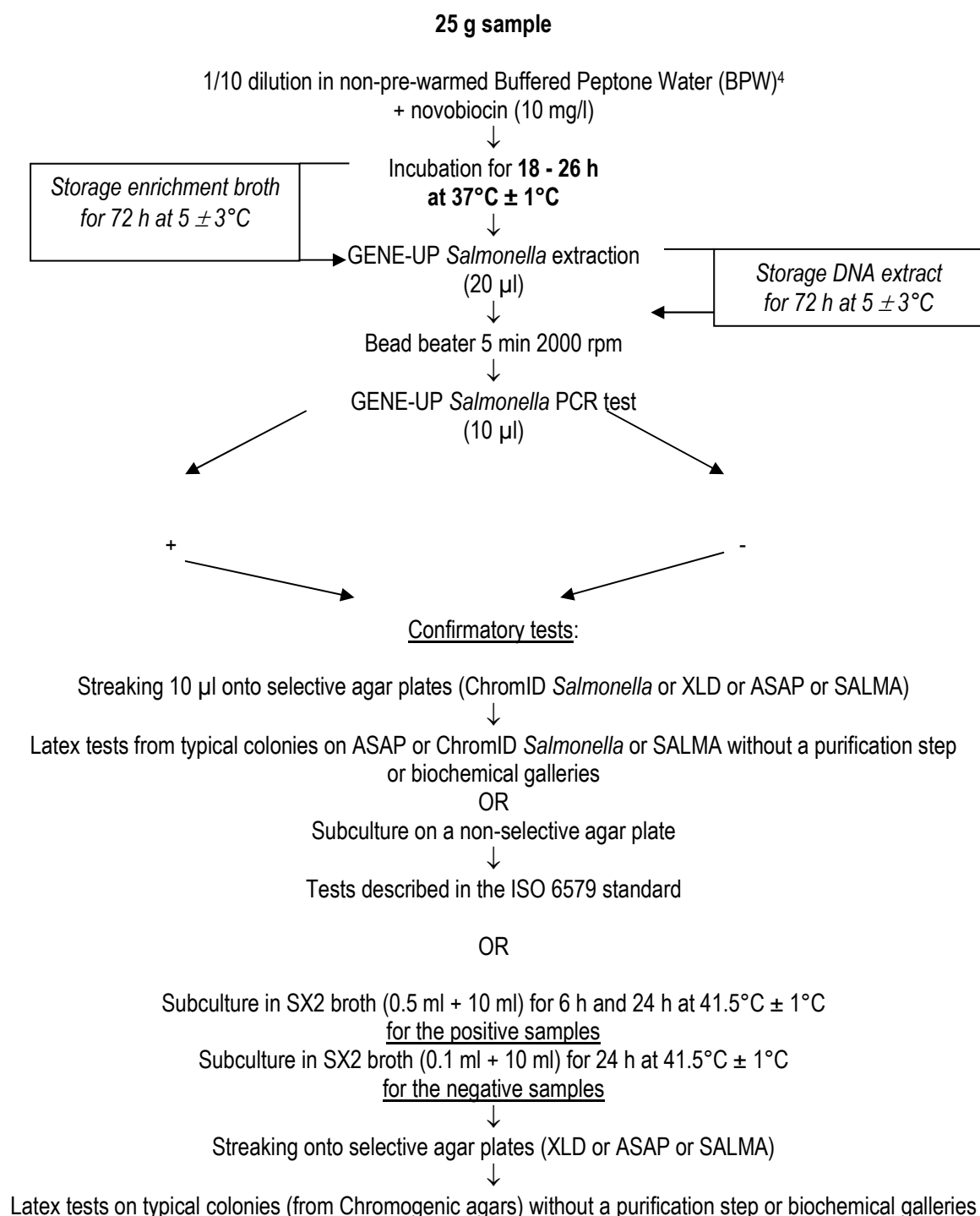
Confirmatory tests:

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:  
 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**

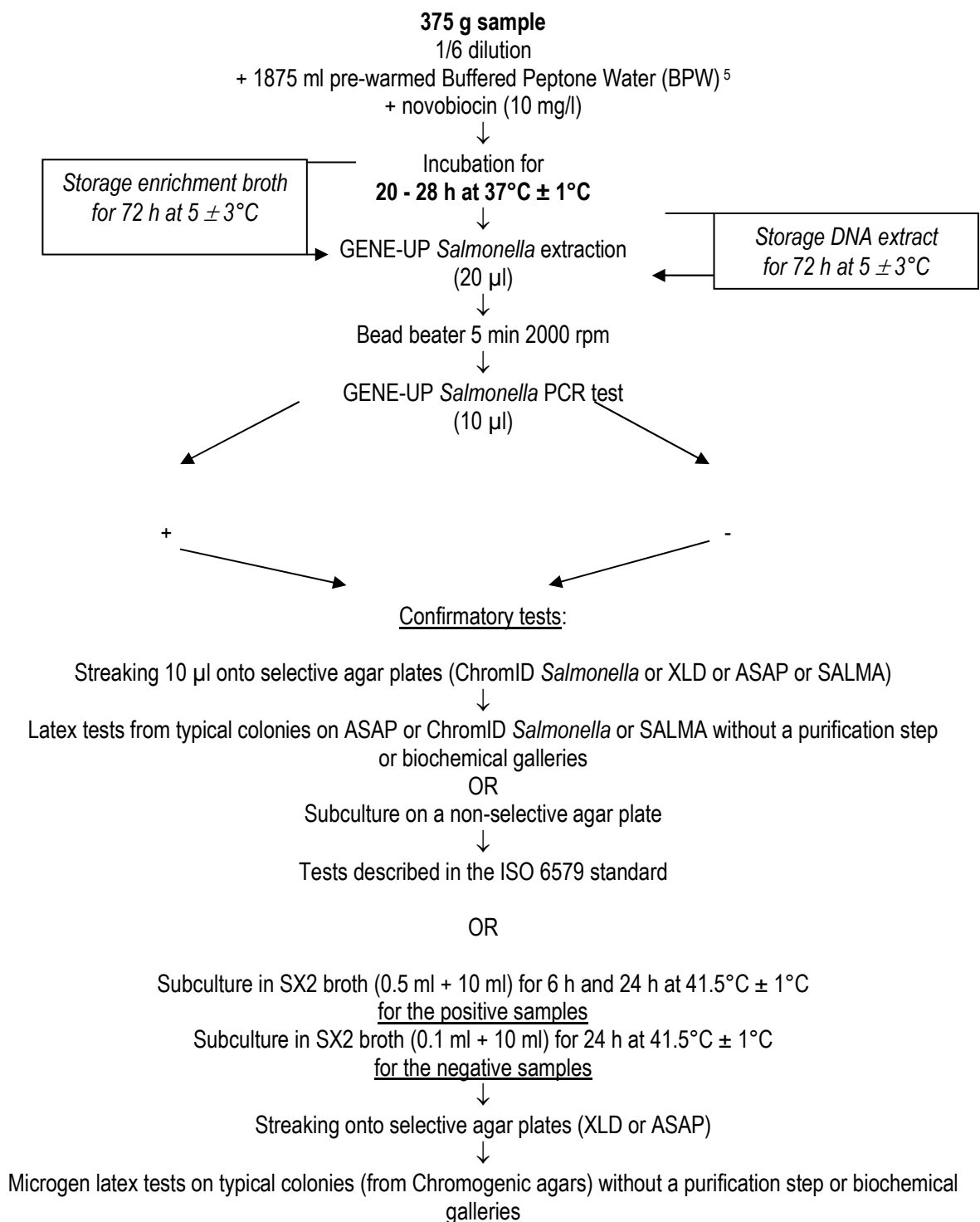


**Specific protocol ⑦**  
**Infant formula and infant cereals with probiotics**



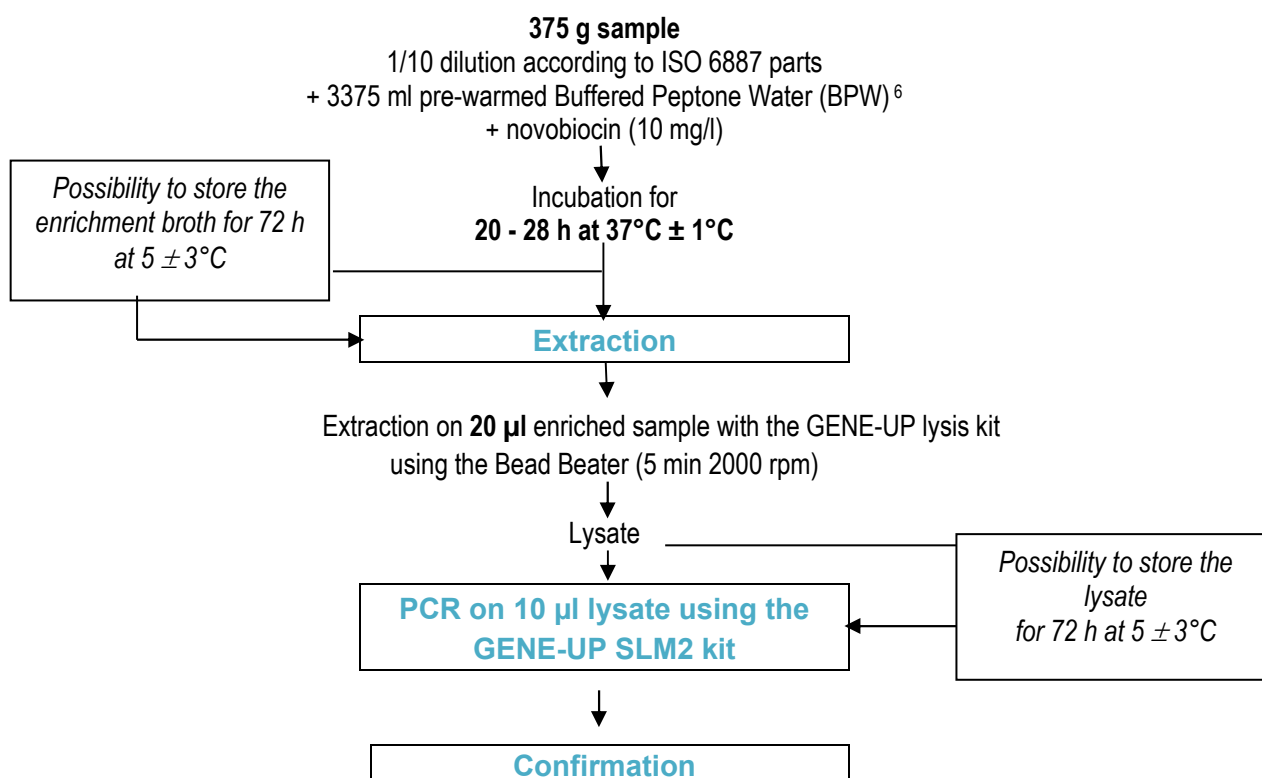
<sup>4</sup> Addition of α-amylase for infant cereals (0.1 g/l)

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



<sup>5</sup> 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**



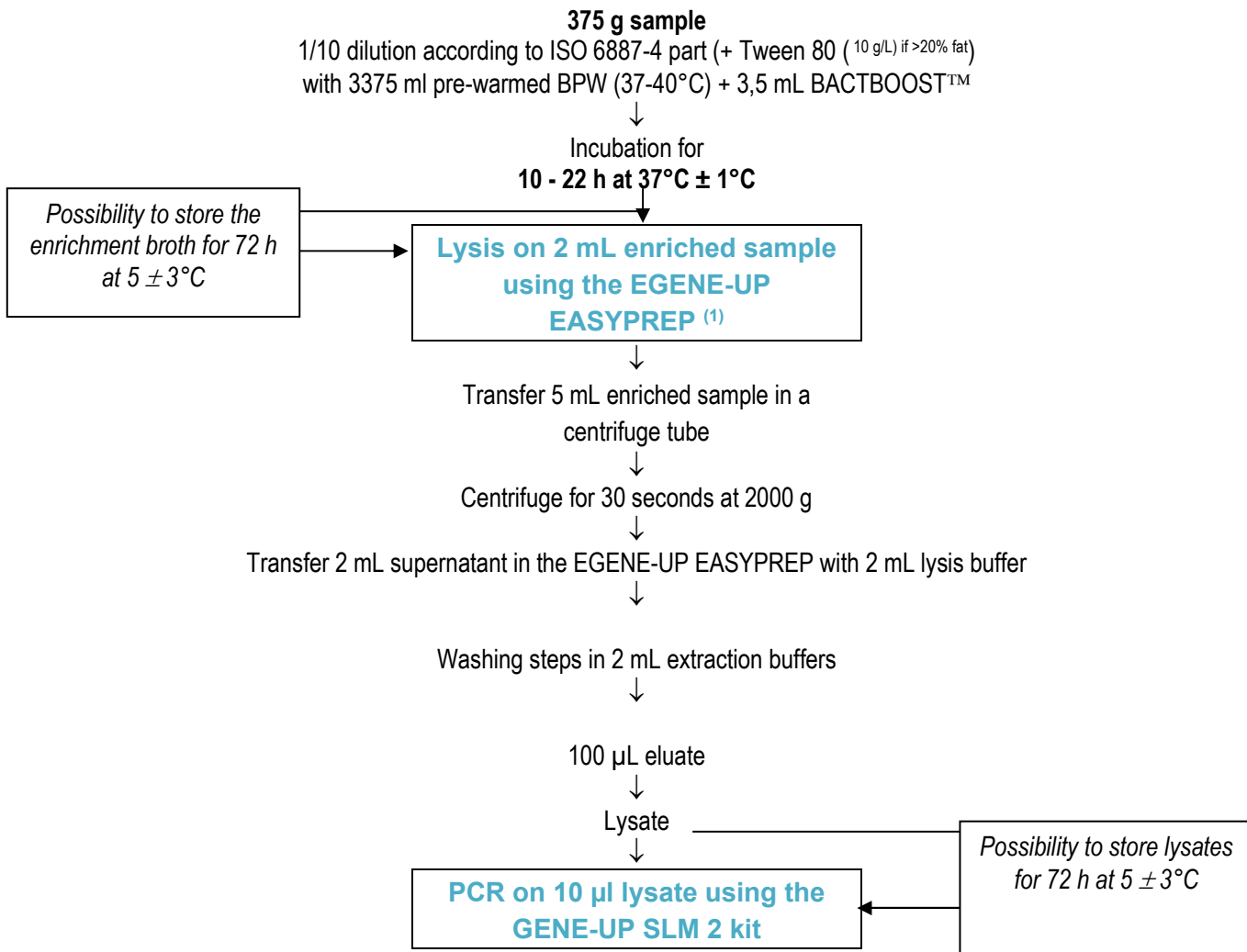
Streaking 10 µl onto selective agar plates (ChromID *Salmonella* or XLD or ASAP or SALMA)

In case 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:  
 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)

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

**Specific ⑪ protocol**  
**Raw material for chocolate industry**



Confirmatory tests:

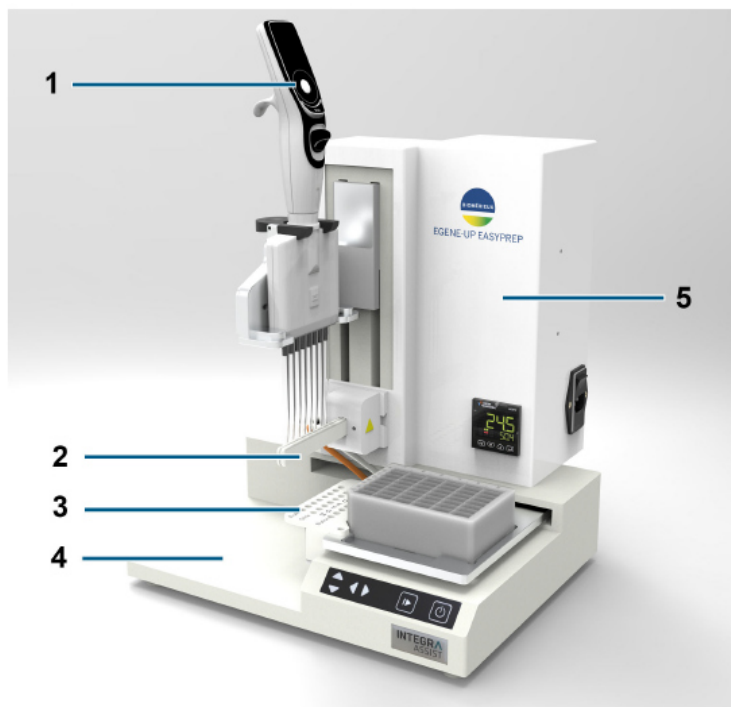
Streaking 10 µl onto selective agar plates (ChromID *Salmonella* or XLD or ASAP or SALMA)

In case of a 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:  
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)

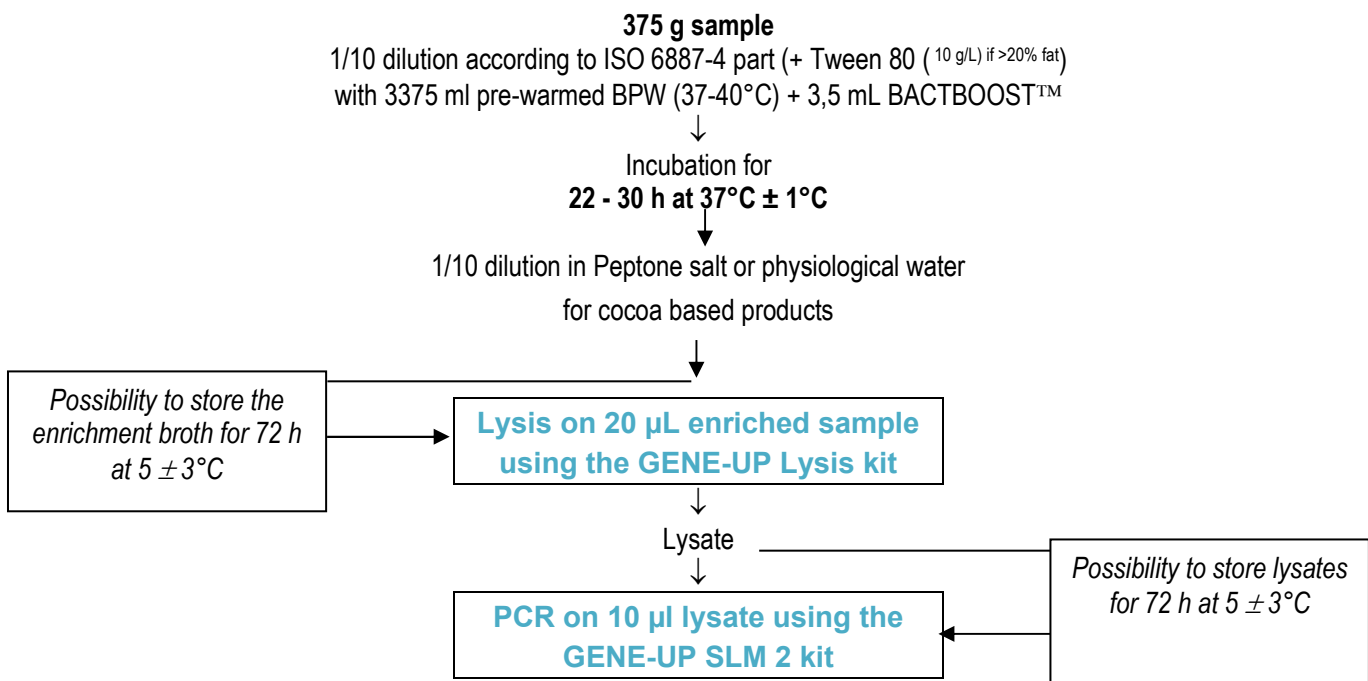
## (1) EGENE-UP ESAYPREP

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 for chocolate industry**



Confirmatory tests:

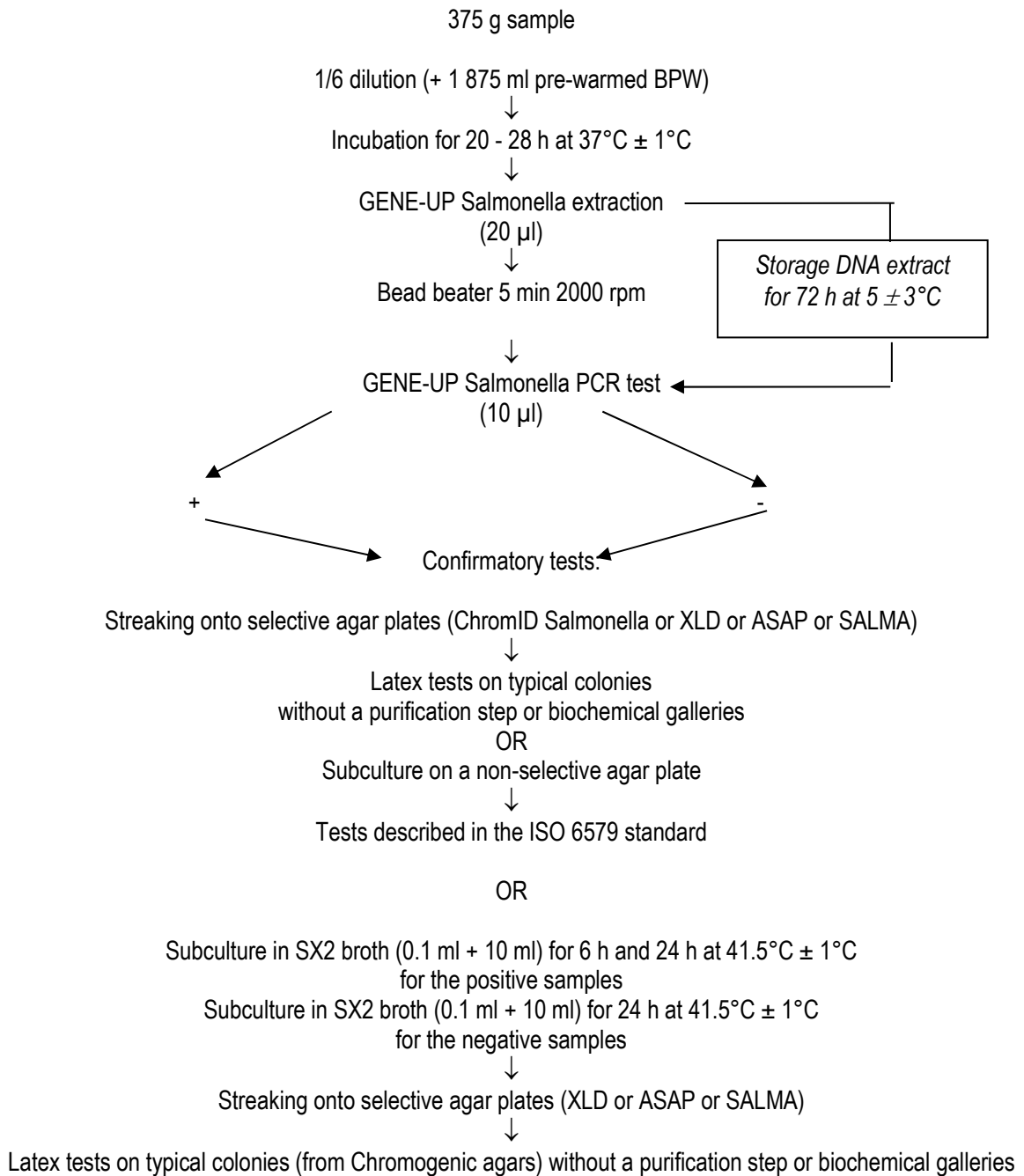
Streaking 10 µl onto selective agar plates (ChromID *Salmonella* or XLD or ASAP or SALMA)

In case of a 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)

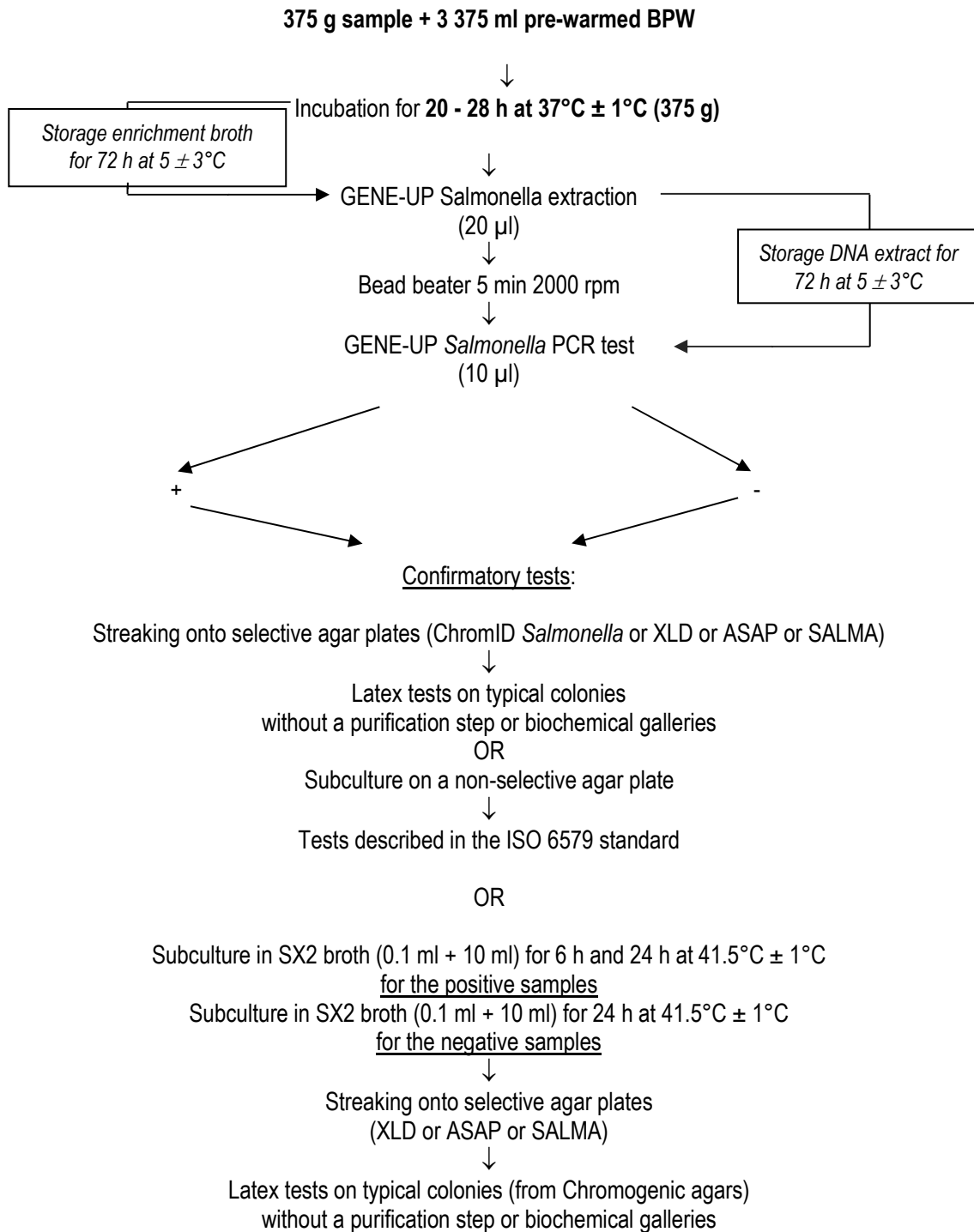
↓  
The typical colonies are confirmed by:  
latex test from Chromogenic agars  
Or biochemical gallery without purification step from selective agar plates  
Or the tests described in the standardized methods (CEN or ISO)



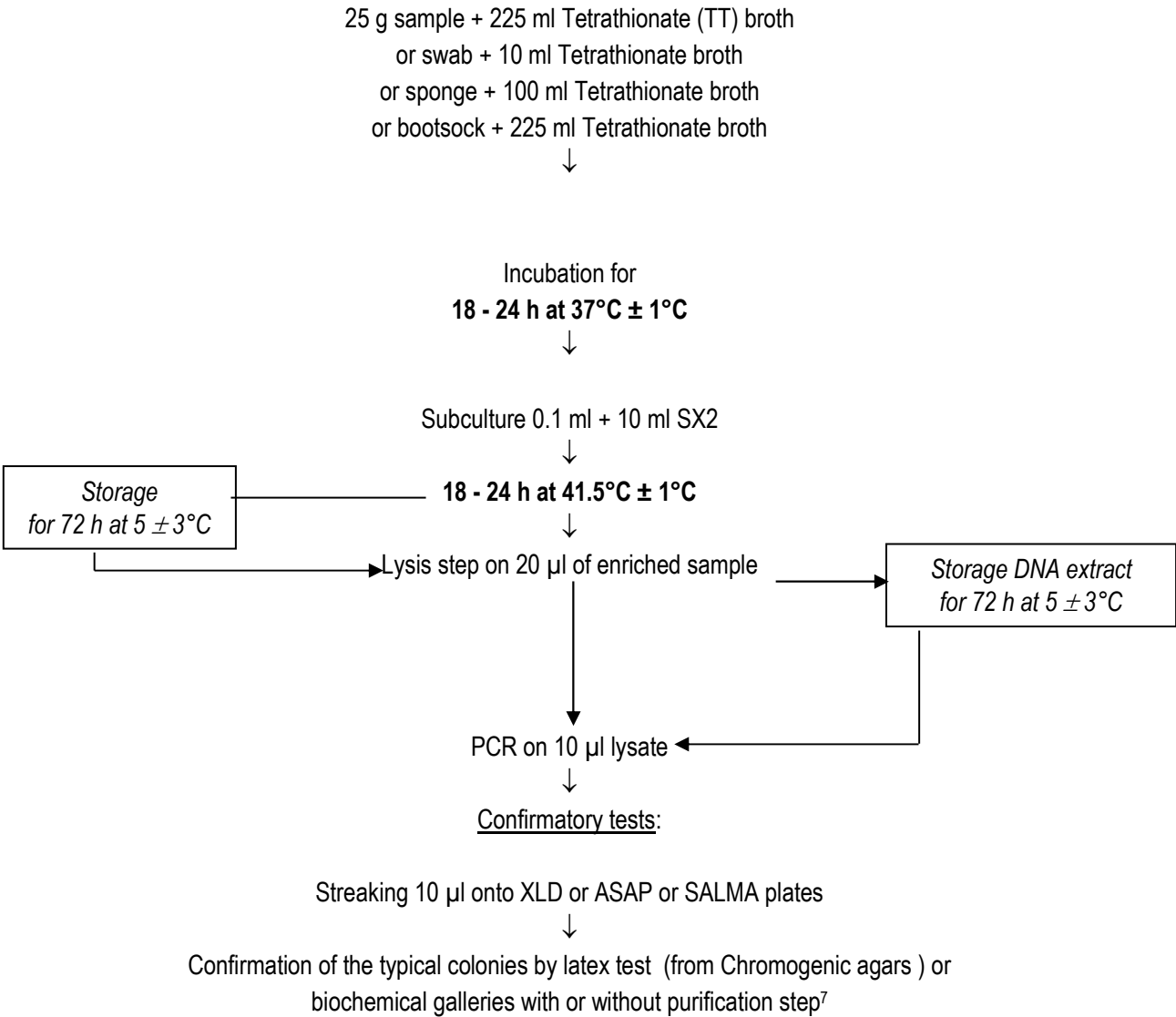
**Specific protocol ©  
Pet food**



**ISO 6579-1 Enrichment broth  
Pet food (375 g sample size)**



**Specific protocol ⑨**  
**Primary production samples**

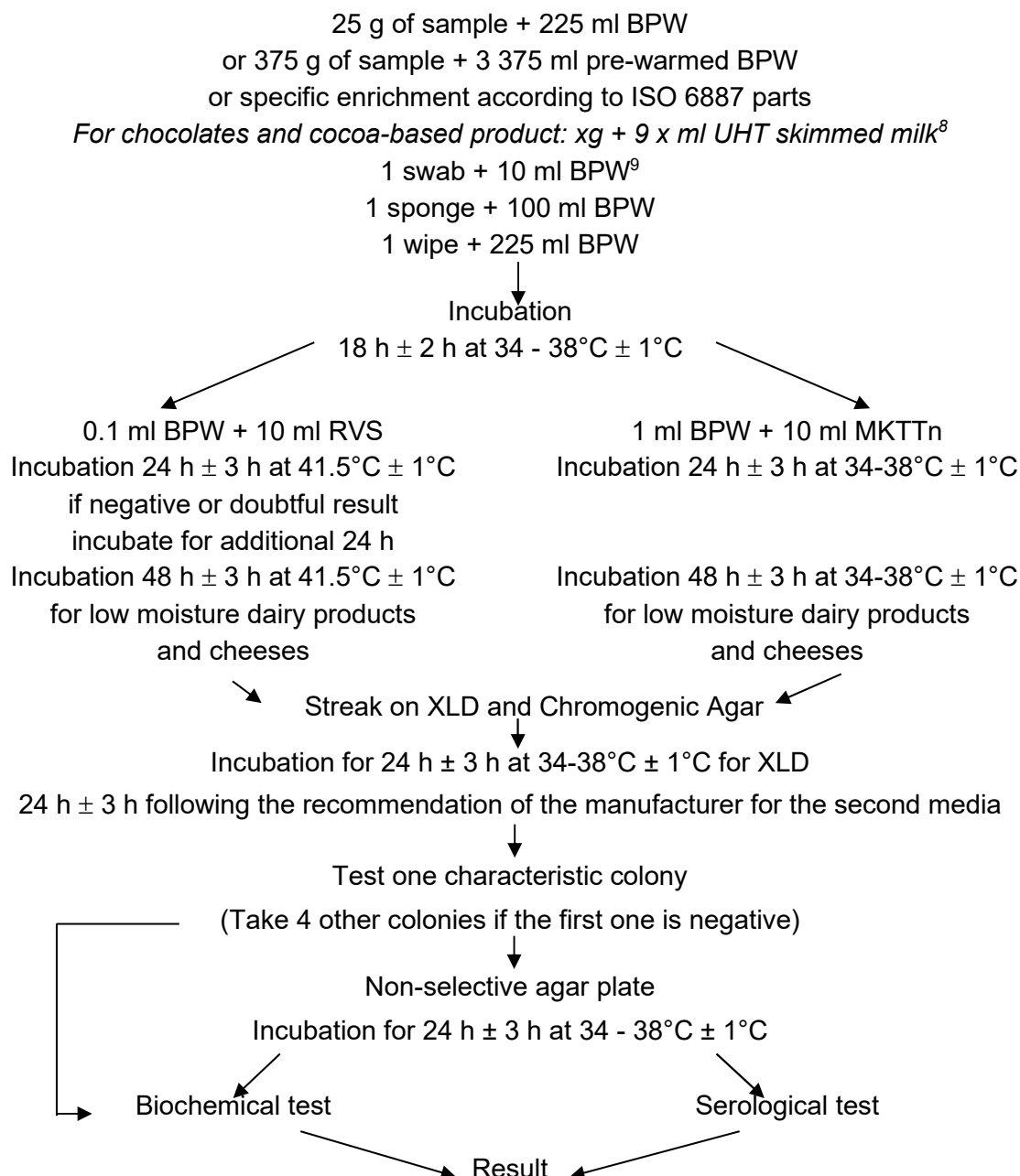


<sup>7</sup> During the validation study, the typical colonies were confirmed without purification step.

**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 MSR/V and SC



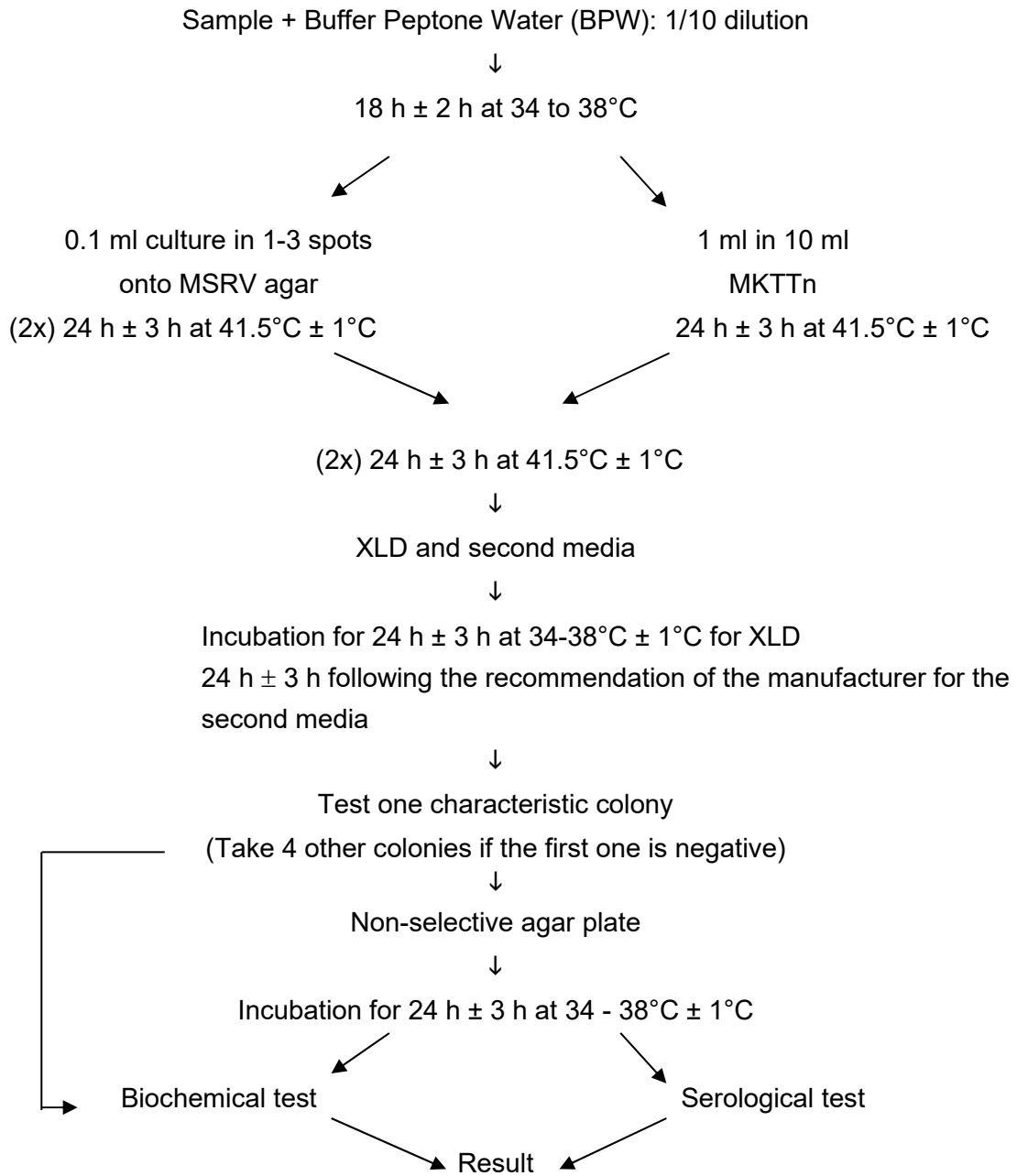
<sup>8</sup> For chocolates products containing > 20 % fat, unless the products already contain sufficient emulsifier, add Tween 80

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

<sup>9</sup> 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 measurement	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 measurement	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 Montbéliard	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	Lactoserum	Lactoserum	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

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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	Caseine	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	Sucrines	Sucrines	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	Sucrines	Sucrines	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



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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 measurement	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 yaourt) 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 (cérélac) 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 (Guigoz)	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 (Milumel)	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 (Blédilait)	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 (Modilac)	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 (Gallia)	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 (Guigoz)	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 (Modilac)	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 measurement	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 (boeuf/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

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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
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

Sample N°	Product (French name)	Product	Artificial contaminations (spiking protocol)						Global result	Category	Type
			Strain	Origin	Injury protocol	Injury measurement	Inoculation level/sample				
							Enumeration	Mean			
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

Sample N°	Product (French name)	Product	Artificial contaminations (spiking protocol)						Global result	Global Result Enrichment ISO	Category	Type
			Strain	Origin	Injury protocol	Injury measurement	Inoculation level/sample					
							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 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
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
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

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			Strain	Origin	Injury protocol	Injury measurement	Inoculation level/sample					
							Enumeration	Mean				
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
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
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
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

Sample N°	Product (French name)	Product	Artificial contaminations (spiking protocol)						Global result	Global Result Enrichment ISO	Category	Type
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							Enumeration	Mean				
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
			Strain	Origin	Injury protocol	Injury measurement	Inoculation level/sample				
							Enumeration	Mean			
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 (3,2.10 <sup>6</sup> UFC/g)	Infant formula with probiotics (3,2.10 <sup>6</sup> CFU/g)	S. Virchow Ad1721	Infant cereals	Seeding 2 weeks at room temperature	/	/	0,8	+	11	c
4498	Lait infantile avec probiotiques (6,4.10 <sup>5</sup> UFC/g)	Infant formula with probiotics (6,4.10 <sup>5</sup> CFU/g)	S. Virchow Ad1721	Infant cereals	Seeding 2 weeks at room temperature	/	/	0,8	+	11	c
4499	Lait infantile avec probiotiques (5,2.10 <sup>6</sup> UFC/g)	Infant formula with probiotics (5,2.10 <sup>6</sup> CFU/g)	S. Infantis 401B	Raw milk	Seeding 2 weeks at room temperature	/	/	<3,1	-	11	c
4500	Lait infantile avec probiotiques (2,3.10 <sup>6</sup> UFC/g)	Infant formula with probiotics (2,3.10 <sup>6</sup> CFU/g)	S. Montevideo Ad912	Raw milk	Seeding 2 weeks at room temperature	/	/	<1,3	+	11	c
4501	Lait infantile avec probiotiques (2,0.10 <sup>5</sup> UFC/g)	Infant formula with probiotics (2,0.10 <sup>5</sup> CFU/g)	S. Mbandaka Ad2296	Raw milk	Seeding 2 weeks at room temperature	/	/	3,0	+	11	c
5550	Lait infantile avec probiotiques (2,0.10 <sup>7</sup> CFU/g)	Infant formula with probiotics (2,0.10 <sup>7</sup> CFU/g)	S. Cerro Ad2707	Milk powder	Seeding 2 weeks at room temperature	/	/	0,8	+	11	c
5551	Lait infantile avec probiotiques (2,4.10 <sup>5</sup> CFU/g)	Infant formula with probiotics (2,4.10 <sup>5</sup> CFU/g)	S. Cerro Ad2707	Milk powder	Seeding 2 weeks at room temperature	/	/	0,8	+	11	c
5552	Lait infantile avec probiotiques (3,0.10 <sup>5</sup> CFU/g)	Infant formula with probiotics (3,0.10 <sup>5</sup> CFU/g)	S. Anatum Ad2706	Milk powder	Seeding 2 weeks at room temperature	/	/	0,4	+	11	c
5553	Lait infantile avec probiotiques (1,4.10 <sup>7</sup> CFU/g)	Infant formula with probiotics (1,4.10 <sup>7</sup> CFU/g)	S. Anatum Ad2706	Milk powder	Seeding 2 weeks at room temperature	/	/	0,4	+	11	c
5554	Lait infantile avec probiotiques (1,0.10 <sup>7</sup> CFU/g)	Infant formula with probiotics (1,0.10 <sup>7</sup> CFU/g)	S. Livingstone Ad2705	Milk powder	Seeding 2 weeks at room temperature	/	/	<1,7	+	11	c
5555	Lait infantile avec probiotiques (6,7.10 <sup>6</sup> CFU/g)	Infant formula with probiotics (6,7.10 <sup>6</sup> CFU/g)	S. Livingstone Ad2705	Milk powder	Seeding 2 weeks at room temperature	/	/	<1,7	+	11	c

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			Strain	Origin	Injury protocol	Injury measurement	Inoculation level/sample					
							Enumeration	Mean				
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 (boeuf/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
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

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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

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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

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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 (2,7.10 <sup>5</sup> UFC/g)	Infant formula with probiotics (2,7.10 <sup>5</sup> CFU/g)	S. Cerro Ad2152	Whey	Seeding lyophilized strain 2 weeks at room temperature	/	/	4,5	+	14	a
4680	Lait infantile avec probiotiques (1,6.10 <sup>5</sup> UFC/g)	Infant formula with probiotics (1,6.10 <sup>5</sup> CFU/g)	S. Mbandaka Ad1722	Raw milk	Seeding lyophilized strain 2 weeks at room temperature	/	/	4,2	+	14	a
4681	Lait infantile avec probiotiques (1,8.10 <sup>4</sup> UFC/g)	Infant formula with probiotics (1,8.10 <sup>4</sup> CFU/g)	S. Montevideo 604	Raw milk	Seeding lyophilized strain 2 weeks at room temperature	/	/	7	+	14	a
4682	Lait infantile avec probiotiques (6,7.10 <sup>3</sup> UFC/g)	Infant formula with probiotics (6,7.10 <sup>3</sup> CFU/g)	S. Typhimurium 4	Milk powder	Seeding lyophilized strain 2 weeks at room temperature	/	/	6	+	14	a
4683	Lait infantile avec probiotiques (1,9.10 <sup>4</sup> UFC/g)	Infant formula with probiotics (1,9.10 <sup>4</sup> CFU/g)	S. Anatum 26	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	/	/	8	+	14	a
4684	Lait infantile avec probiotiques (4,6.10 <sup>3</sup> UFC/g)	Infant formula with probiotics (4,6.10 <sup>3</sup> CFU/g)	S. Anatum 26	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	/	/	8	+	14	a
4685	Lait infantile avec probiotiques (2,1.10 <sup>4</sup> UFC/g)	Infant formula with probiotics (2,1.10 <sup>4</sup> CFU/g)	S. Montevideo 604	Raw milk	Seeding lyophilized strain 2 weeks at room temperature	/	/	7	+	14	a
4686	Lait infantile avec probiotiques (1,8.10 <sup>4</sup> UFC/g)	Infant formula with probiotics (1,8.10 <sup>4</sup> CFU/g)	S. Montevideo 604	Raw milk	Seeding lyophilized strain 2 weeks at room temperature	/	/	7	+	14	a
4687	Lait infantile avec probiotiques (6,8.10 <sup>5</sup> UFC/g)	Infant formula with probiotics (6,8.10 <sup>5</sup> CFU/g)	S. Livingstone Ad1170	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	/	/	1,5	+	14	a
4688	Lait infantile avec probiotiques (7,0.10 <sup>5</sup> UFC/g)	Infant formula with probiotics (7,0.10 <sup>5</sup> CFU/g)	S. Livingstone Ad1170	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	/	/	1,5	+	14	a
4689	Lait infantile avec probiotiques (3,2.10 <sup>6</sup> UFC/g)	Infant formula with probiotics (3,2.10 <sup>6</sup> CFU/g)	S. Norwich Ad1172	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	/	/	4	+	14	a
4690	Lait infantile avec probiotiques (3,0.10 <sup>5</sup> UFC/g)	Infant formula with probiotics (3,0.10 <sup>5</sup> CFU/g)	S. Norwich Ad1172	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	/	/	4	+	14	a
4691	Lait infantile avec probiotiques (3,0.10 <sup>4</sup> UFC/g)	Infant formula with probiotics (3,0.10 <sup>4</sup> CFU/g)	S. Cerro Ad2152	Whey	Seeding lyophilized strain 2 weeks at room temperature	/	/	4,5	+	14	a
4692	Lait infantile avec probiotiques (1,6.10 <sup>6</sup> UFC/g)	Infant formula with probiotics (1,6.10 <sup>6</sup> CFU/g)	S. Cerro Ad2152	Whey	Seeding lyophilized strain 2 weeks at room temperature	/	/	4,5	+	14	a
4693	Lait infantile avec probiotiques (6,0.10 <sup>4</sup> UFC/g)	Infant formula with probiotics (6,0.10 <sup>4</sup> CFU/g)	S. Mbandaka Ad1722	Raw milk	Seeding lyophilized strain 2 weeks at room temperature	/	/	4,2	+	14	a
4694	Lait infantile avec probiotiques (1,4.10 <sup>4</sup> UFC/g)	Infant formula with probiotics (1,4.10 <sup>4</sup> CFU/g)	S. Mbandaka Ad1722	Raw milk	Seeding lyophilized strain 2 weeks at room temperature	/	/	4,2	+	14	a
4695	Lait infantile avec probiotiques (2,5.10 <sup>5</sup> UFC/g)	Infant formula with probiotics (2,5.10 <sup>5</sup> CFU/g)	S. Livingstone Ad1170	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	/	/	1,5	+	14	a
4696	Céréales infantiles avec probiotiques (8,8.10 <sup>4</sup> UFC/g)	Infant cereals with probiotics (8,8.10 <sup>4</sup> CFU/g)	S. Kasenyi Ad2921	Sprouts	Seeding lyophilized strain 2 weeks at room temperature	/	/	4	+	14	b
4697	Céréales infantiles avec probiotiques (2,5.10 <sup>5</sup> UFC/g)	Infant cereals with probiotics (2,5.10 <sup>5</sup> CFU/g)	S. Kasenyi Ad2921	Sprouts	Seeding lyophilized strain 2 weeks at room temperature	/	/	4	+	14	b
4698	Céréales infantiles avec probiotiques (1,1.10 <sup>5</sup> UFC/g)	Infant cereals with probiotics (1,1.10 <sup>5</sup> 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 measurement	Inoculation level/sample				
							Enumeration	Mean			
4699	Céréales infantiles avec probiotiques (2,1.10 <sup>4</sup> UFC/g)	Infant cereals with probiotics (2,1.10 <sup>4</sup> CFU/g)	S. Kasenyi Ad2921	Sprouts	Seeding lyophilized strain 2 weeks at room temperature	/	/	4	+	14	b
4700	Céréales infantiles avec probiotiques (6,7.10 <sup>5</sup> UFC/g)	Infant cereals with probiotics (6,7.10 <sup>5</sup> CFU/g)	S. Odozi	Cocoa beans	Seeding lyophilized strain 2 weeks at room temperature	/	/	2,4	+	14	b
4701	Céréales infantiles avec probiotiques (5,6.10 <sup>5</sup> UFC/g)	Infant cereals with probiotics (5,6.10 <sup>5</sup> CFU/g)	S. Odozi	Cocoa beans	Seeding lyophilized strain 2 weeks at room temperature	/	/	2,4	+	14	b
4702	Céréales infantiles avec probiotiques (7,8.10 <sup>5</sup> UFC/g)	Infant cereals with probiotics (7,8.10 <sup>5</sup> CFU/g)	S. Odozi	Cocoa beans	Seeding lyophilized strain 2 weeks at room temperature	/	/	2,4	+	14	b
4703	Céréales infantiles avec probiotiques (1,3.10 <sup>4</sup> UFC/g)	Infant cereals with probiotics (1,3.10 <sup>4</sup> CFU/g)	S. Odozi	Cocoa beans	Seeding lyophilized strain 2 weeks at room temperature	/	/	2,4	+	14	b
4704	Céréales infantiles avec probiotiques (3,1.10 <sup>4</sup> UFC/g)	Infant cereals with probiotics (3,1.10 <sup>4</sup> CFU/g)	S. Oranienburg Ad1724	Infant cereals	Seeding lyophilized strain 2 weeks at room temperature	/	/	4,6	+	14	b
4705	Céréales infantiles avec probiotiques (3,6.10 <sup>4</sup> UFC/g)	Infant cereals with probiotics (3,6.10 <sup>4</sup> CFU/g)	S. Oranienburg Ad1724	Infant cereals	Seeding lyophilized strain 2 weeks at room temperature	/	/	4,6	+	14	b
4706	Céréales infantiles avec probiotiques (4,0.10 <sup>4</sup> UFC/g)	Infant cereals with probiotics (4,0.10 <sup>4</sup> CFU/g)	S. Oranienburg Ad1724	Infant cereals	Seeding lyophilized strain 2 weeks at room temperature	/	/	4,6	+	14	b
4707	Céréales infantiles avec probiotiques (8,3.10 <sup>3</sup> UFC/g)	Infant cereals with probiotics (8,3.10 <sup>3</sup> CFU/g)	S. Oranienburg Ad1724	Infant cereals	Seeding lyophilized strain 2 weeks at room temperature	/	/	4,6	+	14	b
4708	Céréales infantiles avec probiotiques (1,6.10 <sup>4</sup> UFC/g)	Infant cereals with probiotics (1,6.10 <sup>4</sup> CFU/g)	S. Agona Ad1725	Infant cereals	Seeding lyophilized strain 2 weeks at room temperature	/	/	3	+	14	b
4709	Céréales infantiles avec probiotiques (8,0.10 <sup>3</sup> UFC/g)	Infant cereals with probiotics (8,0.10 <sup>3</sup> CFU/g)	S. Agona Ad1725	Infant cereals	Seeding lyophilized strain 2 weeks at room temperature	/	/	3	+	14	b
4710	Céréales infantiles avec probiotiques (3,6.10 <sup>4</sup> UFC/g)	Infant cereals with probiotics (3,6.10 <sup>4</sup> CFU/g)	S. Agona Ad1725	Infant cereals	Seeding lyophilized strain 2 weeks at room temperature	/	/	3	+	14	b
4711	Céréales infantiles avec probiotiques (1,8.10 <sup>4</sup> UFC/g)	Infant cereals with probiotics (1,8.10 <sup>4</sup> CFU/g)	S. Panama Ad1733	Infant cereals	Seeding lyophilized strain 2 weeks at room temperature	/	/	1,5	+	14	b
4712	Céréales infantiles avec probiotiques (1,4.10 <sup>4</sup> UFC/g)	Infant cereals with probiotics (1,4.10 <sup>4</sup> 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 (8,0.10 <sup>3</sup> UFC/g)	Infant cereals with probiotics (8,0.10 <sup>3</sup> CFU/g)	S. Livingstone Ad2566	Vegetables	Seeding lyophilized strain 2 weeks at room temperature	5,3	+	15	b
2018	4897	Céréales infantiles avec probiotiques (1,2.10 <sup>4</sup> UFC/g)	Infant cereals with probiotics (1,2.10 <sup>4</sup> CFU/g)	S. Virchow Ad2569	Vegetables	Seeding lyophilized strain 2 weeks at room temperature	1	+	15	b
2018	4898	Céréales infantiles avec probiotiques (1,3.10 <sup>4</sup> UFC/g)	Infant cereals with probiotics (1,3.10 <sup>4</sup> CFU/g)	S. Havana Ad2725	Vegetables	Seeding lyophilized strain 2 weeks at room temperature	2,6	+	15	b
2018	4899	Céréales infantiles avec probiotiques (8,4.10 <sup>3</sup> UFC/g)	Infant cereals with probiotics (8,4.10 <sup>3</sup> CFU/g)	S. Livingstone Ad2566	Vegetables	Seeding lyophilized strain 2 weeks at room temperature	5,3	+	15	b
2018	4900	Céréales infantiles avec probiotiques (7,9.10 <sup>3</sup> UFC/g)	Infant cereals with probiotics (7,9.10 <sup>3</sup> CFU/g)	S. Virchow Ad2569	Vegetables	Seeding lyophilized strain 2 weeks at room temperature	1	+	15	b
2018	4901	Céréales infantiles avec probiotiques (1,2.10 <sup>4</sup> UFC/g)	Infant cereals with probiotics (1,2.10 <sup>4</sup> CFU/g)	S. Havana Ad2725	Vegetables	Seeding lyophilized strain 2 weeks at room temperature	2,6	+	15	b
2018	4902	Céréales infantiles avec probiotiques (9,1.10 <sup>3</sup> UFC/g)	Infant cereals with probiotics (9,1.10 <sup>3</sup> CFU/g)	S. Havana Ad2725	Vegetables	Seeding lyophilized strain 2 weeks at room temperature	2,6	+	15	b
2018	4903	Céréales infantiles avec probiotiques (5,8.10 <sup>3</sup> UFC/g)	Infant cereals with probiotics (5,8.10 <sup>3</sup> CFU/g)	S. Virchow Ad2569	Vegetables	Seeding lyophilized strain 2 weeks at room temperature	1	+	15	b
2018	4904	Lait infantile avec probiotiques (4,5.10 <sup>5</sup> UFC/g)	Infant formula with probiotics (4,5.10 <sup>5</sup> 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 (3,2.10 <sup>5</sup> UFC/g)	Infant formula with probiotics (3,2.10 <sup>5</sup> CFU/g)	S. Indiana Ad174	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	4	+	15	b
2018	4906	Lait infantile avec probiotiques (3,0.10 <sup>5</sup> UFC/g)	Infant formula with probiotics (3,0.10 <sup>5</sup> 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 (3,7.10 <sup>4</sup> UFC/g)	Infant formula with probiotics (3,7.10 <sup>4</sup> CFU/g)	S. Mbandaka Ad1810	Cheese	Seeding lyophilized strain 2 weeks at room temperature	2,5	+	15	b
2018	4908	Lait infantile avec probiotiques (4,2.10 <sup>4</sup> UFC/g)	Infant formula with probiotics (4,2.10 <sup>4</sup> 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 (5,1.10 <sup>4</sup> UFC/g)	Infant formula with probiotics (5,1.10 <sup>4</sup> CFU/g)	S. Indiana Ad174	Dairy product	Seeding lyophilized strain 2 weeks at room temperature	4	+	15	b
2018	4910	Lait infantile avec probiotiques (3,1.10 <sup>5</sup> UFC/g)	Infant formula with probiotics (3,1.10 <sup>5</sup> CFU/g)	S. Ohio Ad1482	Raw milk	Seeding lyophilized strain 2 weeks at room temperature	2,6	+	15	b
2018	4911	Lait infantile avec probiotiques (7,1.10 <sup>6</sup> UFC/g)	Infant formula with probiotics (7,1.10 <sup>6</sup> 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	Caseine	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

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	4995	Lactoserum	Whey	S. Heidelberg A00E005	Environmental sample	Seeding lyophilized strain 2 weeks at room temperature	1,2	-	15	c
2018	4996	Caséine	Caseine	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	Caseine	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	Caseine	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
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



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	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)	Bootssocks (poultry environment)	S. Enteritidis Ad2970	Bootssocks	Seeding 24h at ambient temperature	/	1-2-2-3-3	2,2	+	16	a
2020	2734	Pédichiffonnette (environnement volaille)	Bootssocks (poultry environment)	S. Enteritidis Ad2970	Bootssocks	Seeding 24h at ambient temperature	/	1-2-2-3-3	2,2	-	16	a
2020	2735	Fécès porc	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	Fécès 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	Bootssocks (poultry environment)	S. Djugu Ad 2969	Bootssocks 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	Bootssocks poultry	Seeding 24h at ambient temperature	/	3-3-4-3-2	3,0	-	16	a
2020	3187	Fécès volaille	Poultry feces	S. Djugu Ad 2969	Bootssocks poultry	Seeding 24h at ambient temperature	/	3-3-4-3-2	3,0	+	16	a
2020	3188	Fécès volaille	Poultry feces	S. Typhimurium Ad1411	Poultry feces	Seeding 24h at ambient temperature	/	4-3-7-4-3	4,2	+	16	a
2020	3308	Fécès 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	Fécès 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	Fécès 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	Fécès 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	Bootssocks (poultry environment)	S. Infantis Ad 1404	Bootssocks poultry	Seeding 24h at ambient temperature	/	6-2-2-4-3	3,4	-	16	a
2020	3474	Pédichiffonnette poule	Bootssocks (poultry environment)	S. Agona Ad1306	Bootssocks poultry	Seeding 24h at ambient temperature	/	3-5-4-2-3	3,4	+	16	a
2020	3476	Fécès volaille	Poultry feces	S. Agona Ad1306	Bootssocks poultry	Seeding 24h at ambient temperature	/	3-5-4-2-5	3,4	+	16	a
2020	3478	Pédichiffonnette volaille	Bootssocks (poultry environment)	S. Haifa Ad1727	Bootssocks poultry	Seeding 24h at ambient temperature	/	4-5-3-3-3	3,4	+	16	a
2020	3480	Fécès volaille	Poultry feces	S. Gallinarium Ad1841	Poultry	Seeding 24h at ambient temperature	/	4-2-1-5-1	2,6	-	16	a
2020	3482	Fécès 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	Bootssocks	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	Bootssocks 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	Bootssocks 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	Bootssocks 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	Bootssocks 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	Bootssocks 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	Bootssocks 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	Bootssocks poultry	Seeding 24h at ambient temperature	/	4-5-3-3-2	3,4	+	16	b
2020	3479	Litière volaille	Poultry litter	S. Haifa Ad1727	Bootssocks 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 lyophilised 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 lyophilised 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 lyophilised 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 lyophilised 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 lyophilised strain 2 weeks at ambient temperature	6,4	+	17	a
2023	1684	Céréale infantile	Infant cereals	S. Montevideo 604	Dairy product	Seeding lyophilised strain 2 weeks at ambient temperature	0,8	+	17	a
2023	1805	Poudre épaississante de 0 à 3 ans	Thickened powder	S. Ohio Ad2213	Dairy product	Seeding lyophilised strain 2 weeks at ambient temperature	1,9	+	17	c
2023	1806	Poudre infantile protéine de riz avec probiotiques (B.lactis: 2,73.10 <sup>2</sup> UFC/g) (21,5% MG)	Infant rice protein with probiotics (B.lactis: 2,73.10 <sup>2</sup> CFU/g) (21,5% fat)	S. Ohio Ad2213	Dairy product	Seeding lyophilised strain 2 weeks at ambient temperature	1,9	+	17	c
2023	1807	Poudre infantile sans lactose dès la naissance avec probiotiques (L.reuteri: 1,0.10 <sup>6</sup> UFC/g) (25,5% MG)	Infant powder without lactose (L.reuteri: 1,0.10 <sup>6</sup> CFU/g) (25,5% fat)	S. Ohio Ad2213	Dairy product	Seeding lyophilised 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	Lactosera	Seeding lyophilised 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	Lactosera	Seeding lyophilised 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	Lactosera	Seeding lyophilised 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 lyophilised 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 lyophilised strain 2 weeks at ambient temperature	3	+	17	c
2023	1815	Poudre de lait infantile Optima 6 à 12 mois avec probiotiques (B.lactis: 8,91.10 <sup>5</sup> UFC/g) (24,5% MG)	Infant formula with probiotics (B.lactis: 8,91.10 <sup>5</sup> CFU/g) (24,5% fat)	S. Golgcoast Ad3006	Milk powder	Seeding lyophilised strain 2 weeks at ambient temperature	1,2	+	17	b
2023	1816	Poudre de lait infantile SN bio plus 10-36 mois avec probiotiques (B.lactis: 4,09.10 <sup>5</sup> UFC/g) (25% MG)	Infant formula with probiotics (B.lactis: 4,09.10 <sup>5</sup> CFU/g) (25% fat)	S. Golgcoast Ad3006	Milk powder	Seeding lyophilised strain 2 weeks at ambient temperature	1,2	+	17	b
2023	1817	Poudre de lait infantile Evolia dès 6 mois avec probiotiques (B.lactis: 1,36.10 <sup>6</sup> UFC/g) (27,6% MG)	Infant formula with probiotics (B.lactis: 1,36.10 <sup>6</sup> CFU/g) (27,6% fat)	S. Golgcoast Ad3006	Milk powder	Seeding lyophilised strain 2 weeks at ambient temperature	1,2	+	17	b
2023	1818	Poudre de lait infantile de 6 à 12 mois avec probiotiques (B.lactis: 3,36.10 <sup>4</sup> UFC/g) (26% MG)	Infant formula with probiotics (B.lactis: 3,36.10 <sup>4</sup> CFU/g) (26% fat)	S. Cerro Ad2707	Milk powder	Seeding lyophilised strain 2 weeks at ambient temperature	1,5	+	17	b
2023	1819	Poudre de lait infantile NivalGest de 0 à 6 mois avec probiotiques (B.lactis: 2,45.10 <sup>3</sup> UFC/g) (28,2% MG)	Infant formula with probiotics (B.lactis: 2,45.10 <sup>3</sup> CFU/g) (28,2% fat)	S. Cerro Ad2707	Milk powder	Seeding lyophilised strain 2 weeks at ambient temperature	1,5	+	17	b
2023	2041	Céréales infantiles banane avec probiotiques (B.lactis : 1,09.10 <sup>6</sup> UFC/g)	Infant cereals with probiotics	S. Virchow Ad1721	Infant cereals	Seeding lyophilised strain 2 weeks at ambient temperature	1,7	+	17	b

Year of analysis	Sample N°	Product (French name)	Product	Artificial contaminations (spiking protocol)			Inoculation level CUF/test portion	Global result	Category	Type
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2023	2042	Céréales infantiles pomme/pêche avec probiotiques (B.lactis : 1,45.10 <sup>6</sup> UFC/g)	Infant cereals with probiotics	S. Virchow Ad1721	Infant cereals	Seeding lyophilised strain 2 weeks at ambient temperature	1,7	+	17	b
2023	2043	Céréales infantiles banane/prune/quinoa dès 6 mois avec probiotiques (B.lactis : 1,18.10 <sup>3</sup> UFC/g)	Infant cereals with probiotics	S. Virchow Ad1721	Infant cereals	Seeding lyophilised strain 2 weeks at ambient temperature	1,7	+	17	b
2023	2044	Céréales infantiles 2 céréales/quinoa avec probiotique (B.lactis: 4,41.10 <sup>5</sup> UFC/g)	Infant cereals with probiotics	S. Oranienburg Ad1724	Infant cereals	Seeding lyophilised strain 2 weeks at ambient temperature	1,6	+	17	b
2023	2045	Poudre de lait infantile optipro 0-6 mois avec probiotiques (B.lactis : 3,09.10 <sup>6</sup> UFC/g) (27,8% MG)	Infant formula with probiotics (27,6% fat)	S. Infantis A00E057	Dairy dust	Seeding lyophilised 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 : 4,73.10 <sup>5</sup> UFC/g) (23% MG)	Infant formula with probiotics (23% fat)	S. Infantis A00E057	Dairy dust	Seeding lyophilised strain 2 weeks at ambient temperature	1,1	+	17	b
2023	2047	Céréales infantiles dès 12 mois saveur noisette/biscuit	Infant cereals	S. Anatum Ad1166	Milk product	Seeding lyophilised strain 2 weeks at ambient temperature	1	+	17	a
2023	2048	Céréales infantiles dès 8 mois 5céréales/miel	Infant cereals	S. Anatum Ad1166	Milk product	Seeding lyophilised 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 lyophilised 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 lyophilised 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 lyophilised strain 2 weeks at ambient temperature	1,5	+	17	a
2023	2052	Poudre de riz 0-36 mois (25% MG)	Infant rice powder (25% fat)	S. Kasenyi Ad2921	Plants	Seeding lyophilised strain 2 weeks at ambient temperature	2	+	17	c
2023	2053	Poudre épaississante dès la naissance	Thickened powder	S. Kasenyi Ad2921	Plants	Seeding lyophilised strain 2 weeks at ambient temperature	2	+	17	c
2023	2507	Lactosérum	Whey	S. Livingstone Ad2150	Whey	Seeding lyophilised strain 2 weeks at ambient temperature	1,9	+	18	b
2023	2508	Lactosérum	Whey	S. Anatum Ad298	Milk powder	Seeding lyophilised strain 2 weeks at ambient temperature	0,5	-	18	b
2023	2509	Protéine de lactosérum	Whey protein concentrate	S. Infantis A00E057	Dairy dust	Seeding lyophilised strain 2 weeks at ambient temperature	3,6	+	18	b
2023	2510	Lactose	Lactose	S. Livingstone Ad2150	Whey	Seeding lyophilised strain 2 weeks at ambient temperature	1,9	+	18	b
2023	2511	Amidon de maïs	Corn starch	S. Infantis A00E057	Dairy dust	Seeding lyophilised strain 2 weeks at ambient temperature	3,6	-	18	c
2023	2512	Amidon de riz	Rice starch	S. Manhattan 900	Dairy dust	Seeding lyophilised strain 2 weeks at ambient temperature	1,4	+	18	c
2023	2513	Poudre de cacao	Cocoa powder	S. Anatum Ad298	Milk powder	Seeding lyophilised strain 2 weeks at ambient temperature	0,5	-	18	a
2023	2514	Poudre de cacao	Cocoa powder	S. Livingstone Ad2150	Whey	Seeding lyophilised strain 2 weeks at ambient temperature	1,9	+	18	a
2023	2515	Liqueur de cacao	Cocoa liquor	S. Infantis A00E057	Dairy dust	Seeding lyophilised strain 2 weeks at ambient temperature	3,6	+	18	a
2023	2516	Masse de cacao	Cocoa mass	S. Manhattan 900	Dairy dust	Seeding lyophilised strain 2 weeks at ambient temperature	1,4	+	18	a
2023	2733	Beurre de cacahuètes	Peanut butter	S. Schwarzengrund Ad2333	Eggproduct environment	Seeding lyophilised strain 2 weeks at ambient temperature	0,8	+	18	c
2023	2734	Tapioca	Tapioca	S. Brandenburg Ad2749	Dairy environment	Seeding lyophilised strain 2 weeks at ambient temperature	0,2	-	18	c
2023	2735	Lécithine de soja	Soy lecithin	S. Infantis Ad2753	Dairy environment	Seeding lyophilised strain 2 weeks at ambient temperature	4,5	-	18	c
2023	2736	Pâte d'amandes	Marzipan	S. Havana Ad2728	Sunflower	Seeding lyophilised strain 2 weeks at ambient temperature	1,8	+	18	c

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							Mean			
2023	2737	Dextrose en poudre	Dextrose	S. Brandenburg Ad2749	Dairy environment	Seeding lyophilised 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 lyophilised strain 2 weeks at ambient temperature	1,8	+	18	c
2023	2739	Glucose déshydraté	Glucose (powder)	S. Infantis Ad2753	Dairy environment	Seeding lyophilised strain 2 weeks at ambient temperature	4,5	+	18	c
2023	2740	Poudre de crème	Cream powder	S. Schwarzengrund Ad2333	Eggproduct environment	Seeding lyophilised strain 2 weeks at ambient temperature	0,8	+	18	b
2023	2801	Masse de cacao	Cocoa mass	S. Typhimurium Ad2034	Cocoa beans	Seeding lyophilised 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 lyophilised 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 lyophilised 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 lyophilised strain 2 weeks at ambient temperature	1,7	+	18	a
2023	2805	Liqueur de cacao	Cocoa liquor	S. Stanley Ad1688	Chocolate environment	Seeding lyophilised strain 2 weeks at ambient temperature	0,8	-	18	a
2023	2806	Masse de cacao	Cocoa mass	S. Stanley Ad1688	Chocolate environment	Seeding lyophilised 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 lyophilised strain 2 weeks at ambient temperature	1,7	+	18	a
2023	2809	Poudre de crème	Cream powder	S. Anatum Ad2754	Dairy environment	Seeding lyophilised strain 2 weeks at ambient temperature	3	+	18	b
2023	2811	Poudre de babeurre	Buttermilk powder	S. Anatum Ad2754	Dairy environment	Seeding lyophilised strain 2 weeks at ambient temperature	3	+	18	b
2023	2812	Poudre de yaourt	Yogurt powder	S. Anatum Ad2754	Dairy environment	Seeding lyophilised strain 2 weeks at ambient temperature	3	+	18	b
2023	3079	Pellet chocolat noir	Chocolate (pellets)	S. Stanley Ad1688	Chocolate environment	Seeding lyophilised strain 2 weeks at ambient temperature	3	+	18	a
2023	3080	Beurre de cacahuètes	Peanut butter	S. Branderburg Ad2815	Dairy environment	Seeding lyophilised strain 2 weeks at ambient temperature	2,6	+	18	c
2023	3081	Tapioca fin	Tapioca	S. Branderburg Ad2819	Dairy environment	Seeding lyophilised strain 2 weeks at ambient temperature	2	+	18	c
2023	3082	Liqueur de cacao	Cocoa liquor	S. Branderburg Ad2815	Dairy environment	Seeding lyophilised strain 2 weeks at ambient temperature	2,6	+	18	a
2023	3083	Poudre de cacao	Cocoa powder	S. Stanley Ad1688	Chocolate environment	Seeding lyophilised strain 2 weeks at ambient temperature	3	+	18	a
2023	3084	Poudre de lait entier (26% MG)	Milk powder	S. Branderburg Ad2815	Dairy environment	Seeding lyophilised strain 2 weeks at ambient temperature	2,6	+	18	b
2023	3085	Amidon de riz	Rice starch	S. Branderburg Ad2819	Dairy environment	Seeding lyophilised strain 2 weeks at ambient temperature	2	+	18	c
2023	3086	Dextrose en poudre	Dextrose	S. Branderburg Ad2815	Dairy environment	Seeding lyophilised strain 2 weeks at ambient temperature	2,6	+	18	c
2023	3087	Lécithine de soja	Soy lecithin	S. Branderburg Ad2819	Dairy environment	Seeding lyophilised strain 2 weeks at ambient temperature	2	+	18	c
2023	3088	Poudre de crème	Cream powder	S. Livingstone Ad2150	Whey	Seeding lyophilised strain 2 weeks at ambient temperature	4	+	18	b
2023	3089	Poudre de yaourt	Yogurt powder	S. Livingstone Ad2150	Whey	Seeding lyophilised strain 2 weeks at ambient temperature	4	+	18	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	3686	Poudre de cacao alcalisée	Alkalized cocoa powder	S. Bareilly Ad1687	Chocolate environment	Seeding lyophilised 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 lyophilised strain 2 weeks at ambient temperature	/	/	2	+	19	a
2023	3688	Masse de cacao	Chocolate mass	S. Bareilly Ad1687	Chocolate environment	Seeding lyophilised 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 lyophilised strain 2 weeks at ambient temperature	/	/	0,7	+	19	a
2023	3690	Fève de cacao	Cocoa beans	S. Stanley Ad1688	Chocolate environment	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	1	-	19	a
2023	3691	Chocolat blanc	White chocolate	S. Bareilly Ad1687	Chocolate environment	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	1	+	19	b
2023	3692	Chocolat noir	Dark chocolate	S. Stanley Ad1688	Chocolate environment	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	1	+	19	b
2023	3693	Chocolat au lait	Milk chocolate	S. Stanley Ad1688	Chocolate environment	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	1	+	19	b
2023	3694	Poudre de blanc d'œuf	Egg white powder	S. Schwarzengrund Ad2333	Egg product environment	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	4	+	20	a
2023	3695	Poudre de blanc d'œuf	Egg white powder	S. Anatum Ad2754	Environment	Seeding lyophilised 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 lyophilised strain 2 weeks at ambient temperature	/	/	4	+	20	a
2023	3697	Poudre d'œuf entier	Egg powder	S. Schwarzengrund Ad2333	Egg product environment	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	4	+	20	a
2023	3698	Poudre d'œuf entier	Egg powder	S. Brandenburg Ad2819	Environment	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	0,7	+	20	a
2023	3699	Maltodextine	Maltodextrin	S. Anatum Ad2754	Environment	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	2	+	20	b
2023	3700	Lactose	Lactose	S. Brandenburg Ad2819	Environment	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	0,7	-	20	b
2023	3871	Tapioca	Tapioca	S. Brandenburg Ad2749	Dairy environment	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	0,6	-	20	c
2023	3872	Beurre de cacahuète	Peanut butter	S. Infantis Ad2753	Dairy environment	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	0,4	+	20	c
2023	3873	Amidon de maïs	Corn starch	S. Brandenburg Ad2749	Dairy environment	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	0,6	-	20	c
2023	3874	Amidon de riz	Rice starch	S. Brandenburg Ad2819	Dairy environment	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	0,6	-	20	c
2023	3875	Lécithine de soja	Soy lecithin	S. Brandenburg Ad2819	Dairy environment	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	0,6	+	20	c
2023	3876	Pâte d'amande	Marzipan	S. Brandenburg Ad2819	Dairy environment	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	0,6	-	20	c
2023	3877	Poudre de babeurre	Buttermilk powder	S. Brandenburg Ad2749	Dairy environment	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	0,6	+	20	b
2023	3878	Lactose	Lactose	S. Brandenburg Ad2749	Dairy environment	Seeding lyophilised 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 lyophilised strain 2 weeks at ambient temperature	/	/	1,3	+	20	b
2023	3880	Caséinates de calcium	Calcium caseinate	S. Infantis Ad2753	Dairy environment	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	0,4	+	20	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	3881	Concentré de protéine de lactosérum	Whey protein concentrate	S. Mbandaka Ad2808	Dairy environment	Seeding lyophilised 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 lyophilised strain 2 weeks at ambient temperature	/	/	0,4	+	20	b
2023	3883	Beurre de cacao	Cocoa butter	S. Mbandaka Ad2808	Dairy environment	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	1,3	-	19	a
2023	3884	Masse de cacao	Cocoa mass	S. Infantis Ad2753	Dairy environment	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	0,4	+	19	a
2023	3885	Liqueur de cacao	Cocoa liquor	S. Mbandaka Ad2808	Dairy environment	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	1,3	+	19	a
2023	3920	Chocolat noir force noir (50% cacao)	Dark chocolate (50% cocoa)	S. Brandenburg Ad2749	Dairy environment	Seeding lyophilised 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 lyophilised strain 2 weeks at ambient temperature	/	/	1,3	-	19	b
2023	3922	Chunks de chocolat noir (48% cacao)	Dark chocolate (48% cocoa)	S. Brandenburg Ad2815	Dairy environment	Seeding lyophilised 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 lyophilised 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 lyophilised 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 lyophilised 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 lyophilised strain 2 weeks at ambient temperature	/	/	1,6	+	19	b
2023	3927	M&M's cacahuète	M&M's peanuts	S. Brandenburg Ad2749	Dairy environment	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	2	-	19	c
2023	3928	Mars	Mars	S. Brandenburg Ad2815	Dairy environment	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	4	+	19	c
2023	3929	Twix	Twix	S. Mbandaka Ad2808	Dairy environment	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	1,3	-	19	c
2023	3930	Maltesers	Maltesers	S. Infantis A00E057	Dairy environment	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	2	+	19	c
2023	4192	Fèves de cacao	Cocoa beans	S. Cerro Ad2152	Dairy product	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	1	-	19	a
2023	4193	Liqueur de cacao	Cocoa liquor	S. Cerro Ad2152	Dairy product	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	1	+	19	a
2023	4194	Lion	Lion	S. Livingstone E1	Egg white powder	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	1,3	+	19	c
2023	4195	Kinder country	Kinder country	S. Livingstone E1	Egg white powder	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	1,3	+	19	c
2023	4196	Smarties	Smarties	S. Derby Ad1683	Pie	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	1,3	+	19	c
2023	4197	Daim	Daim	S. Derby Ad1683	Pie	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	1,3	-	19	c
2023	4198	Kitkat	Kitkat	S. Derby Ad3381	Milk	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	0,6	-	19	c
2023	4199	Reeses's	Reeses's	S. Derby Ad3381	Milk	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	0,6	+	19	c
2023	4200	Albumine d'œuf	Egg albumin	S. Livingstone E1	Egg white powder	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	1,3	+	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	4201	Poudre de yaourt	Yoghurt powder	S. Cerro Ad2152	Dairy product	Seeding lyophilised 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 lyophilised strain 2 weeks at ambient temperature	/	/	0,6	-	20	b
2023	4203	Lécithine de tournesol	Sunflower lecithin	S. Derby Ad3381	Milk	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	0,6	-	20	c
2023	4204	Dextrose	Dextrose	S. Derby Ad1683	Pie	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	1,3	-	20	c
2023	4205	Glucose déshydraté	Glucose	S. Derby Ad1683	Pie	Seeding lyophilised 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 lyophilised strain 2 weeks at ambient temperature	/	/	1	+	20	c
2023	4292	Masse de cacao	Cocoa mass	S. Brandenburg Ad2819	Dairy environment	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	1,6	+	19	a
2023	4293	Beurre de cacao	Cocoa butter	S. Brandenburg Ad2819	Dairy environment	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	1,6	+	19	a
2023	4294	Poudre de cacao	Cocoa powder	S. Derby Ad3381	Milk	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	0,3	-	19	a
2023	4295	Pépites de chocolat noir 45% cacao	Dark chocolate (45% cocoa)	S. Derby Ad3381	Milk	Seeding lyophilised 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 lyophilised 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 lyophilised 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 lyophilised strain 2 weeks at ambient temperature	/	/	0,5	+	19	b
2023	4299	M&M's cacahuète (26% MG)	M&M's with peanuts (26% fat)	S. Infantis Ad1685	Gelatin	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	0,6	+	19	c
2023	4300	Twix (35% MG)	Twix	S. Infantis Ad1685	Gelatin	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	0,6	+	19	c
2023	4301	Bounty (26% MG)	Bounty	S. Livingstone E1	White egg powder	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	0,5	-	19	c
2023	4302	Poudre de jaune d'œuf	Egg yolk powder	S. Livingstone E1	White egg powder	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	0,5	-	20	a
2023	4307	Tapioca fin	Tapioca	S. Mbandaka Ad2808	Vacuum dusts (dairy industry)	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	0,3	-	20	c
2023	4308	Amidon de maïs	Corn starch	S. Cerro Ad2153	Whey	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	2	+	20	c
2023	4309	Amidon de riz	Rice starch	S. Brandenburg Ad2749	Vacuum dusts (dairy industry)	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	1	+	20	c
2023	4310	Pâte d'amande	Marzipan	S. Brandenburg Ad2749	Vacuum dusts (dairy industry)	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	1	-	20	c
2023	4311	Lécithine de soja	Soy lecithin	S. Mbandaka Ad2808	Vacuum dusts (dairy industry)	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	0,3	+	20	c
2023	4312	Lactose	Lactose	S. Cerro Ad2153	Whey	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	2	+	20	b
2023	4313	Protéine de lactosérum	Whey protein	S. Cerro Ad2153	Whey	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	2	+	20	b
2023	4314	Maltodextrine	Maltodextrin	S. Cerro Ad2153	Whey	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	2	+	20	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	4457	Daim	Daim	S. Derby Ad1683	Pasty	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	2,5	+	19	c
2023	4458	KitKat	Kitkat	S. Derby Ad3381	Ewe milk	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	1,3	+	19	c
2023	4459	Poudre de crème	Cream powder	S. Derby Ad3381	Ewe milk	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	1,3	+	20	b
2023	4460	Lécithine de soja	Soya lecithin	S. Derby Ad1683	Pasty	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	2,5	-	20	c
2023	4461	Dextrose	Dextrose	S. Derby Ad1683	Pasty	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	2,5	-	20	c
2023	4462	Glucose	Glucose	S. Derby Ad3381	Ewe milk	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	1,3	-	20	c
2023	4835	Coule de jaune d'oeuf 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'oeuf 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	4943	Fève de cacao	Cocoa beans	S. Bareilly Ad1687	Chocolate environment	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	2,1	-	19	a
2023	4944	Liqueur de cacao	Cocoa liquor	S. Schwarzenrund Ad2333	Egg product environment	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	2,5	+	19	a
2023	4945	Chocolat noir (65% cacao)	Black chocolate (65% cocoa)	S. Schwarzenrund Ad2333	Egg product environment	Seeding lyophilised 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 lyophilised strain 2 weeks at ambient temperature	/	/	2,1	+	19	b
2023	4947	Pâte d'amande	Marzipan	S. Havana Ad2728	Sunflower	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	0,7	-	20	c
2023	4948	Lécithine de tournesol	Sunflower lecithin	S. Havana Ad2728	Sunflower	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	0,7	+	20	c
2023	4954	Dextrose	Dextrose	S. Havana Ad2728	Sunflower	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	0,7	+	20	c
2023	4955	Glucose	Glucose	S. Bareilly Ad1687	Chocolate environment	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	2,1	+	20	c
2023	4956	Tapioca	Tapioca	S. Schwarzenrund Ad2333	Egg product environment	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	2,5	+	20	c
2023	4957	Amidon de maïs	Corn starch	S. Bareilly Ad1687	Chocolate environment	Seeding lyophilised strain 2 weeks at ambient temperature	/	/	2,1	+	20	c

## Appendix 4 – Sensitivity study: raw data


Page 139 : results taking into account all the confirmatory tests

Page 213 : detailed results of the confirmatory tests

### **Bold typing: artificially inoculated samples**

#### **Results:**

m:	minority level of target analyte
M:	majority level of target analyte
p:	pure culture level of target analyte
1/2:	50% level of target analyte
(x):	number of colonies in the plate
-:	no typical colonies but presence of background microflora
st:	plate without any colony
A:	high level of background microflora
B:	medium level of background microflora
C:	low level of background microflora
PA:	positive agreement
NA:	negative agreement
ND:	negative deviation
PD:	positive deviation
PPNA:	positive presumptive negative agreement
PPND:	positive presumptive negative deviation
NC:	non-characteristic colony
w:	weak reaction
i:	inhibition
*:	lysate 1:3
**:	enrichment or lysate 1:10
****:	lysate 1:5

 Samples analysed with a specific protocol









MEAT PRODUCTS - General protocol - Extension No 2

Sample N°	Product (french name)	Product	Reference method: ISO 6579*					Alternative method: GENE-UP <i>Salmonella</i>															Category	Type		
			RVS broth		MKTn broth		ISO 6579 Result	BPW for 18h at 37°C					BPW for 18h at 37°C + 72h at 5 ± 3°C													
								PCR			Final result 18h	Agreement 18h	PCR-BPW 72h			PCR-Lysate 72h			Confirmation final result	Final result 72h BPW	Final result 72h Lysate	Agreement 72h BPW			Agreement 72h Lysate	
			Cp	Tm	Result	Cp	Tm	Result	Cp	Tm			Result													
XLD	ASAP	XLD	ASAP																							
1581	Chipolata	Chipolata	+M	+p	+M	+M	+	28.76	65.74	+	+	+	PA	28.97	65.9	+	32.46	65.89	+	+	+	+	PA	PA	2	c
1582	Chorizo	Chorizo	st	st	-	-	-	0	0	-	-	-	NA												2	c
1583	Chipolata	Chipolata	-	st	+md/-	-	-	0	0	-	-	-	NA	0	0	-	0	0	-	-	-	-	NA	NA	2	c
1584	Chipolata aux oignons	Chipolata	+m(3)/+	-	+1/2	-	+	0/0/0	0/0/0	-/-	-	-	ND	0	0	-	0	0	-	-	-	-	ND	ND	2	c
1585	Farce à saucisse	Sausage stuffing	+m(3)/-	-	+md/-	-	-	0	0	-	-	-	NA	0	0	-	0	0	-	-	-	-	NA	NA	2	c
1586	Chipolata	Chipolata	-	-	-	-	-	0	0	-	-	-	NA	0	0	-	0	0	-	-	-	-	NA	NA	2	c
1587	Chorizo	Chorizo	-	-	-	-	-	0	0	-	-	-	NA												2	c
1588	Saucisse	Sausage	+m/-	-	+md/-	-	-	0	0	-	-	-	NA	0	0	-	0	0	-	-	-	-	NA	NA	2	c
1589	Chair à saucisse	Sausage stuffing	+m/+	+M	-	+M	+	32.62	65.85	+	+	+	PA	32.06	66.25	+	32.65	66.23	+	+	+	+	PA	PA	2	c
1590	Saucisse	Sausage	-	-	-	-	-	0	0	-	-	-	NA												2	c
1591	Chipolata	Chipolata	-	-	-	-	-	0	0	-	-	-	NA												2	c
1592	Chair à saucisse	Sausage stuffing	+M	+M	+m	+1/2	+	31.04	65.99	+	+	+	PA	30.45	65.94	+	30.8;	65.83	+	+	+	+	PA	PA	2	c
1609	Salami	Salami	st	st	st	st	-	0	0	-	-	-	NA												2	c
1610	Salami fumé	Smoked salami	st	st	st	st	-	0	0	-	-	-	NA												2	c
1611	Chipolatas	Chipolata	+M	+M	+M	+M	+	34.44	66.21	+	+	+	PA	34.03	66.04	+	33.82	65.91	+	+	+	+	PA	PA	2	c
1612	Saucisse Montbeliard	Sausage of Montbeliard	+M	+M	+M	+M	+	24.22	66.17	+	+	+	PA	24.22	66.03	+	24.83	66.01	+	+	+	+	PA	PA	2	c
1613	Bacon	Bacon	+M	+M	+M	+M	+	24	65.83	+	+	+	PA	24.9	65.91	+	22.2	65.86	+	+	+	+	PA	PA	2	c
1614	Bacon fumé	Smoked bacon	+M	+M	+M	+M	+	24.2	65.91	+	+	+	PA	24.61	66.26	+	23.33	66.23	+	+	+	+	PA	PA	2	c
1615	Saucisse	Sausage	-	-	-	-	-	0	0	-	-	-	NA	0	0	-	0	0	-	-	-	-	NA	NA	2	c







DAIRY PRODUCTS - General protocol - Extension No 2

Sample N°	Product (french name)	Product	Reference method: ISO 6579*					Alternative method: GENE-UP <i>Salmonella</i>																Category	Type	
			RVS broth		MKTTn broth		ISO 6579 Result	BPW for 18h at 37°C					BPW for 18h at 37°C + 72h at 5 ± 3°C													
								Cp	Tm	Result	Confirmation final result	Final result 18h	Agreement 18h	PCR-BPW 72h			PCR-Lysate 72h			Confirmation final result	Final result 72h BPW	Final result 72h Lysate	Agreement 72h BPW			Agreement 72h Lysate
			Cp	Tm	Result	Cp	Tm							Result	Cp	Tm	Result									
6894	Poudre de lait bio	Milk powder	+p	+p	+p	+p	+	32.05	65.71	+	+	+	PA	31.74	65.73	+	31.9	65.65	+	+	+	+	PA	PA	3	c
6895	Poudre de lait demi-écrémé	Milk powder	st	st	st	st	-	0	0	-	-	-	NA												3	c
6896	Poudre de lait écrémé	Milk powder	st	st	st	st	-	0	0	-	-	-	NA												3	c
6897	Protéines de lactosérum	Lactosérum	+p	+p	+p	+p	+	31.86	65.73	+	+	+	PA	30.97	66.01	+	31.52	65.92	+	+	+	+	PA	PA	3	c
6898	Lactosérum	Lactosérum	+p	+p	+p	+p	+	27.58	66.08	+	+	+	PA	24.8	66.56	+	28.1	65.96	+	+	+	+	PA	PA	3	c
6899	Maltodextrine	Maltodextrin	+p	+p	+p	+p	+	22.43	66.02	+	+	+	PA	21.91	66.74	+	22.47	66.67	+	+	+	+	PA	PA	3	c
6900	Lactosérum	Lactosérum	+p	+p	+p	+p	+	23.99	66.03	+	+	+	PA	23.57	66.22	+	23.62	66.25	+	+	+	+	PA	PA	3	c
6901	Lactoprotéines	Lactoprotéin	+p	+p	+p	+p	+	23.89	66.25	+	+	+	PA	24.58	66.08	+	23.81	66.65	+	+	+	+	PA	PA	3	c
6902	Caséines	Caseinate	+p	+p	+p	+p	+	23.19	66.02	+	+	+	PA	23.57	66.35	+	26.73	65.96	+	+	+	+	PA	PA	3	c
7056	Poudre de lait demi-écrémé	Milk powder	+p	+p	+p	+p	+	28.98	65.55	+	+	+	PA	26.27	66.02	+	30.05	65.03	+	+	+	+	PA	PA	3	c
7057	Poudre de lait	Milk powder	st	st	st	st	-	0	0	-	-	-	NA												3	c
7058	Maltodextrine	Maltodextrin	st	st	st	st	-	0	0	-	-	-	NA												3	c
7059	Caséinate	Caseinate	+p	+p	+p	+p	+	23.54	66.01	+	+	+	PA	24.48	66.02	+	24.45	65.62	+	+	+	+	PA	PA	3	c
7060	Lactose	Lactose	+p	+p	+p	+p	+	25.49	65.82	+	+	+	PA	23.66	65.9	+	30.73	66.13	+	+	+	+	PA	PA	3	c
7061	Lactosérum	Lactosérum	st	st	st	st	-	0	0	-	-	-	NA												3	c
7062	Caséine	Caseine	+p	+p	+p	+p	+	23.77	65.89	+	+	+	PA	23.14	65.79	+	24.71	65.98	+	+	+	+	PA	PA	3	c
7211	Poudre de lait	Milk powder	st	st	st	st	-	0	0	-	-	-	NA												3	c
7212	Poudre de lait	Milk powder	st	st	st	st	-	0	0	-	-	-	NA												3	c
7213	Poudre de lait	Milk powder	st	st	st	st	-	0	0	-	-	-	NA												3	c
8075	Poudre de lait	Milk powder	+p	+p	+p	+p	+	31.87	65.27	+	+	+	PA	31.48	65.21	+	31.21	65.67	+	+	+	+	PA	PA	3	c
8076	Poudre de lait	Milk powder	+p	+p	+p	+p	+	23.78	65.94	+	+	+	PA	24.64	65.89	+	24.76	65.9	+	+	+	+	PA	PA	3	c







SPECIFIC INGREDIENTS AND FOODS - General Protocol - Extension No 2

Sample N°	Product	Reference method: ISO 6579*					Alternative methode : GENE-UP Salmonella															Category	Type		
		RVS broth		MKTTn broth		ISO 6579 Result	18h at 37°C					18h at 37°C +72h at 5 ± 3°C													
		XLD	ASAP	XLD	ASAP		PCR			Confirmation final result	Final result 18h	Agreement 18h	PCR-BPW 72h			PCR-Lysate 72h			Confirmation final result	Final result 72h BPW	Final result 72h Lysate			Agreement 72h BPW	Agreement 72h Lysate
							Cp	Tm	Result				Cp	Tm	Result	Cp	Tm	Result							
4384	Cereals with probiotics	st	st	st	st	-	0/0/0	65.94/0/0	+/-	-(MSRV -)	-	PPNA	0/0/0	66,62/66,41/66,43	+/+/+	33,14/33,12/32,46	66,27/65,9/66,21	+/+/+	-(MSRV -)	-	-	PPNA	PPNA	5	b
4385	Infant cereals with probiotics	st	st	st	st	-	0	0	-	-	-	NA	0	0	-	0	0	-	-	-	-	NA	NA	5	b
4386	Cereals with probiotics	+p	+p	+p	+p	+	30.71	65.9	+	+	+	PA	29,96	65,94	+	30,65	66,09	+	+	+	PA	PA	5	b	
4387	Cereals with probiotics	+p	+p	+p	+p	+	32.26	65.75	+	+	+	PA	31,56	65,93	+	32,19	66,18	+	+	+	PA	PA	5	b	
4388	Infant formula with probiotics	st	st	st	st	-	0	0	-	-	-	NA												5	b
4389	Infant formula with probiotics	st	st	st	st	-	0	0	-	-	-	NA												5	b
4390	Infant formula with probiotics	st	st	st	st	-	0	0	-	-	-	NA												5	b
4391	Infant formula with probiotics	st	st	st	st	-	0	0	-	-	-	NA												5	b
4392	Infant formula with probiotics	st	st	st	st	-	0	0	-	-	-	NA												5	b
4393	Infant formula with probiotics	st	st	st	st	-	0	0	-	-	-	NA												5	b
4394	Infant formula with probiotics	st	st	st	st	-	0	0	-	-	-	NA												5	b
5622	Infant formula with probiotics	+p	+p	+p	+p	+	24,93	66,08	+	+	+	PA	25,71	66,55	+	23,88	66,25	+	+	+	+	PA	PA	5	b
5623	Infant formula with probiotics	+p	+p	+p	+p	+	21,69	66,45	+	+	+	PA	21,15	66,2	+	20,9	66,52	+	+	+	+	PA	PA	5	b
5624	Infant formula with probiotics	st	st	st	st	-	32,43	65,81	+	+	+	PD	30,93	66,1	+	31,9	66,19	+	-(MSRV -)	-	-	PPNA	PPNA	5	b
5625	Infant formula with probiotics	+p	+p	+p	+p	+	31,23	66,01	+	+	+	PA	32,3	66,06	+	30,93	65,9	+	+	+	+	PA	PA	5	b
5626	Infant formula with probiotics	+p	+p	+p	+p	+	0	66,29	+	+	+	PA	30,32	65,85	+	33,12	65,73	+	+	+	+	PA	PA	5	b
5627	Infant formula with probiotics	+p	+p	+p	+p	+	20,9	66,45	+	+	+	PA	20,43	66,5	+	20,77	66,6	+	+	+	+	PA	PA	5	b
5628	Infant formula with probiotics	+p	+p	+p	+p	+	0	0	-	-	-	ND	0	0	-	0	0	-	-	-	-	ND	ND	5	b
4395	Whole egg powder	+p	+p	+p	+p	+	23.76	66.42	+	+	+	PA	24,03	66,39	+	23,66	66,15	+	+	+	+	PA	PA	5	c
4396	White egg powder	+p	+p	+p	+p	+	25.41	66.35	+	+	+	PA	24,78	66,42	+	24,8	66,39	+	+	+	+	PA	PA	5	c
4397	White egg powder	+p	+p	+p	+p	+	23.11	66.35	+	+	+	PA	0	65,92	+	23,27	66,37	+	+	+	+	PA	PA	5	c
4398	Whole egg powder	st	st	st	st	-	0	0	-	-	-	NA												5	c
4399	Whole egg powder	st	st	st	st	-	0/32,63*	0/66,19*	-/+*	-	-	PPNA	24,82	66,1	+	0	0	-	-(MSRV -)	-	-	PPNA	NA	5	c
4400	Whole egg powder	+p	+p	+p	+p	+	24.97	66.26	+	+	+	PA	24,5	66,28	+	23,93	66,16	+	+	+	+	PA	PA	5	c
4401	Whole egg powder	+p	+p	+p	+p	+	24.32	66.18	+	+	+	PA	23,1	65,9	+	24,08	66,29	+	+	+	+	PA	PA	5	c
4730	Pasteurized egg yolk	st	st	st	st	-	0	0	-	-	-	NA	0	0	-	0	0	-	-	-	-	NA	NA	5	c

**SPECIFIC INGREDIENTS AND FOODS - General Protocol - Extension No 2**

Sample N°	Product	Reference method: ISO 6579*					Alternative methode : GENE-UP Salmonella																	Category	Type
		RVS broth		MKTTn broth		ISO 6579 Result	18h at 37°C					18h at 37°C +72h at 5 ± 3°C													
		XLD	ASAP	XLD	ASAP		PCR			Confirmation final result	Final result 18h	Agreement 18h	PCR-BPW 72h			PCR-Lysate 72h			Confirmation final result	Final result 72h BPW	Final result 72h Lysate	Agreement 72h BPW	Agreement 72h Lysate		
							Cp	Tm	Result				Cp	Tm	Result	Cp	Tm	Result							
4731	Pasteurized egg yolk	+p	+p	+p	+p	+	29.76	65.87	+	+	+	PA	27,51	65,86	+	29,48	66,01	+	+	+	+	PA	PA	5	c
4732	Pasteurized whole egg	st	st	st	st	-	0	0	-	-	-	NA	0	0	-	0	0	-	-	-	-	NA	NA	5	c
4733	Pasteurized whole egg	+p	+p	+p	+p	+	25.18	66.01	+	+	+	PA	25,16	66,54	+	20,98	65,92	+	+	+	+	PA	PA	5	c
4734	Pasteurized egg white	+p	+p	+p	+p	+	22.75	66.5	+	+	+	PA	22,08	66,59	+	23,85	66,55	+	+	+	+	PA	PA	5	c
5212	Whole egg powder	st	st	st	st	-	34,61/36,73/0	65,69/66,51/0	+/-	- (MSRV -)	-	PPNA	34,72/0/34,36	65,75/0/66,73	+/-	0	0	-	- (MSRV -)	-	-	PPNA	NA	5	c
5213	Whole egg powder	st	st	st	st	-	0	0	-	-	-	NA												5	c
5214	Egg yolk powder	st	st	st	st	-	0	0	-	-	-	NA												5	c
5215	White egg powder	st	st	st	st	-	0	0	-	-	-	NA												5	c
5221	Pasteurized egg yolk	st	st	st	st	-	0	0	-	-	-	NA	0	0	-	0	0	-	-	-	-	NA	NA	5	c
5222	Pasteurized whole egg	st	st	st	st	-	0	0	-	-	-	NA												5	c
5223	Pasteurized whole egg	st	st	st	st	-	0	0	-	-	-	NA												5	c
5629	Sweet egg yolk pasteurized egg (50%)	+p	+p	+p	+p	+	30,42	66,14	+	+	+	PA	28,42	65,8	+	29,44	66,1	+	+	+	+	PA	PA	5	c
5630	Salted egg yolk pasteurized (10%)	+p	+p	+p	+p	+	30,72	65,78	+	+	+	PA	27,68	66,48	+	27,24	66,6	+	+	+	+	PA	PA	5	c
5631	Sweet egg yolk pasteurized egg (50%)	st	st	st	st	-	0	0	-	-	-	NA												5	c
5632	Salted egg yolk pasteurized (10%)	st	st	st	st	-	0	0	-	-	-	NA												5	c
1992	Pasteurized whole liquid egg	+p	+p	+p	+p	+	21,52	66,06	+	+	+	PA	21,17	65,72	+	21,25	35,99	+	+	+	+	PA	PA	5	c





**SPECIFIC INGREDIENTS AND FOODS - ISO Protocol- Extension No 2**

Sample N°	Product	Reference method: ISO 6579*					Alternative methode : GENE-UP <i>Salmonella</i>																Category	Type	
		RVS broth		MKTTn broth		ISO 6579 Result	ISO Enrichment broth for 18h at 37°C						ISO Enrichment broth for 18h at 37°C + 72h at 5°C ± 3°C												
		Cp	Tm	Result	Confir- mation final result		Final result 18h	Agree- ment 18h	PCR-BPW 72h			PCR-Lysate 72h			Confir- mation final result	Final result 72h BPW	Final result 72h Lysate	Agreement 72h BPW	Agreement 72h Lysate						
									Cp	Tm	Result	Cp	Tm	Result											
XLD	ASAP	XLD	ASAP																						
4385	Cereals with probiotics	st	st	st	st	-	0/0/0	0/0/65,72	-/-/+	+	-	NA	0	66,09	+	33,67	65,95	+	+	+	+	PD	PD	5	b
4386	Cereals with probiotics	+p	+p	+p	+p	+	30.03	65.05	+	+	+	PA	30,11	66,5	+	29,81	66,34	+	+	+	+	PA	PA	5	b
4387	Infant cereals with probiotics	+p	+p	+p	+p	+	31.76	65.65	+	+	+	PA	32,31	65,82	+	32,07	65,9	+	-(MSRV -)	-	-	PPND	PPND	5	b
4388	Infant formula with probiotics	st	st	st	st	-	0	0	-	-	-	NA												5	b
4389	Infant formula with probiotics	st	st	st	st	-	0	0	-	-	-	NA												5	b
4390	Infant formula with probiotics	st	st	st	st	-	0	0	-	-	-	NA												5	b
4391	Infant formula with probiotics	st	st	st	st	-	0	0	-	-	-	NA												5	b
4392	Infant formula with probiotics	st	st	st	st	-	0	0	-	-	-	NA												5	b
4393	Infant formula with probiotics	st	st	st	st	-	0	0	-	-	-	NA												5	b
4394	Infant formula with probiotics	st	st	st	st	-	0	0	-	-	-	NA												5	b
5622	Infant formula with probiotics	+p	+p	+p	+p	+	24,63	66,22	+	+	+	PA	23.02	66.32	+	24.68	66.29	+	+	+	+	PA	PA	5	b
5623	Infant formula with probiotics	+p	+p	+p	+p	+	21,91	66,29	+	+	+	PA	20.72	66.43	+	21.32	66.24	+	+	+	+	PA	PA	5	b
5624	Infant formula with probiotics	st	st	st	st	-	0	0	-	-	-	NA												5	b
5625	Infant formula with probiotics	+p	+p	+p	+p	+	29,87	65,71	+	+	+	PA	26.77	66.09	+	29.78	65.63	+	+	+	+	PA	PA	5	b
5626	Infant formula with probiotics	+p	+p	+p	+p	+	23,44	66,04	+	+	+	PA	21.5	66.6	+	23.61	66.2	+	+	+	+	PA	PA	5	b
5627	Infant formula with probiotics	+p	+p	+p	+p	+	28	62,94	+	+	+	PA	26.76	66.22	+	31.37	63.83	+	+	+	+	PA	PA	5	b
5628	Infant formula with probiotics	+p	+p	+p	+p	+	30,42	66,14	+	+	+	PA	28.62	65.77	+	29.79	65.96	+	+	+	+	PA	PA	5	b
4734	Pasteurized egg white	+p	+p	+p	+p	+	22.75	66.5	+	+	+	PA	22,08	66,59	+	23,85	66,55	+	+	+	+	PA	PA	5	c
4395	Whole egg powder	+p	+p	+p	+p	+	23.76	66.42	+	+	+	PA	24,03	66,39	+	23,66	66,15	+	+	+	+	PA	PA	5	c
4396	White egg powder	+p	+p	+p	+p	+	25.41	66.35	+	+	+	PA	24,78	66,42	+	24,8	66,39	+	+	+	+	PA	PA	5	c
4397	White egg powder	+p	+p	+p	+p	+	23.11	66.35	+	+	+	PA	0	65,92	+	23,27	66,37	+	+	+	+	PA	PA	5	c

**SPECIFIC INGREDIENTS AND FOODS - ISO Protocol- Extension No 2**

Sample N°	Product	Reference method: ISO 6579*				Alternative methode : GENE-UP <i>Salmonella</i>																	Category	Type			
		RVS broth		MKTTn broth		ISO 6579 Result	ISO Enrichment broth for 18h at 37°C						ISO Enrichment broth for 18h at 37°C + 72h at 5°C ± 3°C														
		Cp	Tm	Result	Confir- mation final result		Final result 18h	Agree- ment 18h	PCR-BPW 72h			PCR-Lysate 72h			Confir- mation final result	Final result 72h BPW	Final result 72h Lysate	Agreement 72h BPW	Agreement 72h Lysate								
									Cp	Tm	Result	Cp	Tm	Result													
XLD	ASAP	XLD	ASAP																								
4398	Whole egg powder	st	st	st	st	-	0	0	-	-	-	NA													5	c	
4399	Whole egg powder	st	st	st	st	-	0/32,63*	0/66,19*	-/+*	-	-	NA	24,82	66,1	+	0	0	-	-(MSRV -)	-	-	PPNA	NA			5	c
4400	Whole egg powder	+p	+p	+p	+p	+	24.97	66.26	+	+	+	PA	24,5	66,28	+	23,93	66,16	+	+	+	+	PA	PA			5	c
4401	Whole egg powder	+p	+p	+p	+p	+	24.32	66.18	+	+	+	PA	23,1	65,9	+	24,08	66,29	+	+	+	+	PA	PA			5	c
4730	Pasteurized egg yolk	st	st	st	st	-	0	0	-	-	-	NA	0	0	-	0	0	-	-	-	-	NA	NA			5	c
4731	Pasteurized egg yolk	+p	+p	+p	+p	+	29.76	65.87	+	+	+	PA	27,51	65,86	+	29,48	66,01	+	+	+	+	PA	PA			5	c
4732	Pasteurized whole egg	st	st	st	st	-	0	0	-	-	-	NA	0	0	-	0	0	-	-	-	-	NA	NA			5	c
4733	Pasteurized whole egg	+p	+p	+p	+p	+	25.18	66.01	+	+	+	PA	25,16	66,54	+	20,98	65,92	+	+	+	+	PA	PA			5	c
5212	Whole egg powder	st	st	st	st	-	34,61/36,73/0	65,69/66,51/0	+/-	-(MSRV -)	-	PPNA	34,72/0/ 34,36	65,75/0/66,73	+/-	0	0	-	-(MSRV -)	-	-	PPNA	NA			5	c
5213	Whole egg powder	st	st	st	st	-	0	0	-	-	-	NA														5	c
5214	Egg yolk powder	st	st	st	st	-	0	0	-	-	-	NA														5	c
5215	White egg powder	st	st	st	st	-	0	0	-	-	-	NA														5	c
5221	Pasteurized egg yolk	st	st	st	st	-	0	0	-	-	-	NA	0	0	-	0	0	-	-	-	-	NA	NA			5	c
5222	Pasteurized whole egg	st	st	st	st	-	0	0	-	-	-	NA														5	c
5223	Pasteurized whole egg	st	st	st	st	-	0	0	-	-	-	NA														5	c
5629	Sweet egg yolk pasteurized egg (50%)	+p	+p	+p	+p	+	30,42	66,14	+	+	+	PA	28,42	65,8	+	29,44	66,1	+	+	+	+	PA	PA			5	c
5630	Salted egg yolk pasteurized (10%)	+p	+p	+p	+p	+	30,72	65,78	+	+	+	PA	27,68	66,48	+	27,24	66,6	+	+	+	+	PA	PA			5	c
5631	Sweet egg yolk pasteurized egg (50%)	st	st	st	st	-	0	0	-	-	-	NA														5	c
5632	Salted egg yolk pasteurized (10%)	st	st	st	st	-	0	0	-	-	-	NA														5	c
1992	Pasteurized whole liquid egg	+p	+p	+p	+p	+	21,52	66,06	+	+	+	PA	21,17	65,72	+	21,25	35,99	+	+	+	+	PA	PA			5	c

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Sample N°	Product (french name)	Product	Reference method: ISO 6579*					Alternative method: GENE-UP Salmonella															Category	Type			
			RVS broth		MKTTn broth		ISO 6579 Result	BPW for 18h at 37°C					BPW for 18h at 37°C + 72h at 5 ± 3°C														
								PCR			Confir- mation final result	Final result 18h	Agree- ment 18h	PCR-BPW 72h			PCR-Lysate 72h			Confir- mation final result	Final result 72h BPW	Final result 72h Lysate			Agree- ment 72h BPW	Agree- ment 72h Lysate	
			Cp	Tm	Result	Cp	Tm	Re- sult	Cp	Tm				Result													
7349	Déchets (industrie porcine)	Residues (swine industry)	st	st	st	st	-	0	0	-	-	-	NA													7	a
7572	Déchets (industrie végétaux)	Residues (vegetables industry)	+M	+M	+M	+p	+	24.91	66.53	+	+	+	PA	24.95	66.14	+	24.79	66.16	+	+	+	+	PA	PA	7	a	
7573	Déchets (industrie végétaux)	Residues (vegetables industry)	+M	+p	+M	+p	+	23.87	66.44	+	+	+	PA	23.94	66.52	+	24.01	66.09	+	+	+	+	PA	PA	7	a	
7578	Déchets (industrie poisson)	Residues (fish industry)	+M	+M	+M	+M	+	33.75	65.9	+	+	+	PA	33.47	66.04	+	33.98	65.94	+	+	+	+	PA	PA	7	a	
7579	Déchets (industrie poisson)	Residues (fish industry)	+p	+p	+p	+p	+	26.28	65.93	+	+	+	PA	26.06	66.06	+	23.8	66.12	+	+	+	+	PA	PA	7	a	
7580	Déchets (industrie poisson)	Residues (fish industry)	+p	+p	+M	+M	+	0/0/0	0/0/0	-/-	+	-	ND	0	0	-	0	0	-	-	-	-	ND	ND	7	a	
7581	Déchets (industrie poisson)	Residues (fish industry)	-	-	-	-	-	0	0	-	-	-	NA													7	a
7582	Déchets (industrie poisson)	Residues (fish industry)	+p	+p	+p	+p	+	21.83	66.21	+	+	+	PA	23.05	66.1	+	22.8	66.66	+	+	+	+	PA	PA	7	a	
7667	Poussières industrie laitière	Dust from dairy industry	+p	+p	+p	+p	+	35.24	65.78	+	+	+	PA	34.84	65.91	+	34.85	66.1	+	+	+	+	PA	PA	7	a	
7668	Poussières industrie laitière	Dust from dairy industry	+p	+p	+p	+p	+	32.16	65.69	+	+	+	PA	31.32	65.54	+	32.57	65.67	+	+	+	+	PA	PA	7	a	
7669	Poussières industrie laitière	Dust from dairy industry	+p	+p	+p	+p	+	30.94	65.12	+	+	+	PA	30.71	65.53	+	31.63	65.43	+	+	+	+	PA	PA	7	a	
7670	Poussières industrie laitière	Dust from dairy industry	+p	+p	+p	+p	+	35.11	65.91	+	+	+	PA	34.7	65.72	+	0/0/35.27	0/0/65.96	-/+	+	+	-	PA	ND	7	a	
7777	Déchets (Charcuterie)	Residues (delicatessen industry)	-	-	-	-	-	0	0	-	-	-	NA													7	a
7780	Déchets (Charcuterie)	Residues (delicatessen industry)	-	-	-	-	-	0	0	-	-	-	NA													7	a
7963	Déchets (industrie végétaux)	Residues (vegetables industry)	-	-	-	-	-	0	0	-	-	-	NA													7	a
7964	Déchets (Charcuterie)	Residues (delicatessen industry)	-	-	-	-	-	0	0	-	-	-	NA													7	a
7965	Déchets (Charcuterie)	Residues (delicatessen industry)	st	st	st	st	-	0	0	-	-	-	NA													7	a
7966	Déchets (Charcuterie)	Residues (delicatessen industry)	-	-	-	-	-	0	0	-	-	-	NA													7	a
7967	Déchets (viande de bœuf)	Residues (Beef meat)	-	-	-	-	-	0	0	-	-	-	NA													7	a
7968	Déchets (viande de bœuf)	Residues (Beef meat)	st	st	st	st	-	0	0	-	-	-	NA													7	a
2404	Eau flageleuse	Porcine environment	+M	+M	+M	+M	+	25.71	67.39	+	+	+	PA	26.84	67.49	+	26.14	67.18	+	+	+	+	PA	PA	7	b	
2405	Eau épileuse	Porcine environment	-	-	+md/+ (E.coli)	+m/-	-	0	0	-	-	-	NA	0	0	-	0	0	-	-	-	-	NA	NA	7	b	
2406	Eau échaudage	Porcine environment	-	st	-	st	-	0	0	-	-	-	NA													7	b
2407	Eau rinçage carcasse avant flambage	Porcine environment	-	-	-	-	-	0	0	-	-	-	NA													7	b
2408	Eau flageleuse	Porcine environment	-	-	-	-	-	0	0	-	-	-	NA													7	b
2409	Eau pédiluve	Porcine environment	st	st	st	st	-	0	0	-	-	-	NA													7	b
7350	Eau de process (industrie porcine)	Process water (swine industry)	-	-	+m	+m/+	+	34.46	66.04	+	+	+	PA	35.71	65.75	+	35.97	66.11	+	+	+	+	PA	PA	7	b	

\* Analyses performed according to the COFRAC accreditation

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Sample N°	Product (french name)	Product	Reference method: ISO 6579*					Alternative method: GENE-UP <i>Salmonella</i>															Category	Type			
			RVS broth		MKTTn broth		ISO 6579 Result	BPW for 18h at 37°C					BPW for 18h at 37°C + 72h at 5 ± 3°C														
								PCR			Confirmation final result	Final result 18h	Agreement 18h	PCR-BPW 72h			PCR-Lysate 72h			Confirmation final result	Final result 72h BPW	Final result 72h Lysate			Agreement 72h BPW	Agreement 72h Lysate	
			Cp	Tm	Result	Cp	Tm	Result	Cp	Tm				Result													
XLD	ASAP	XLD	ASAP																								
7351	Eau de process (industrie porcine)	Process water (swine industry)	st	st	st	st	-	0	0	-	-	-	NA												7	b	
7352	Eau de process (industrie porcine)	Process water (swine industry)	st	st	st	st	-	0	0	-	-	-	NA												7	b	
7353	Eau de process (industrie porcine)	Process water (swine industry)	st	st	st	st	-	0	0	-	-	-	NA												7	b	
7354	Eau de process (industrie porcine)	Process water (swine industry)	+M	+M	+M	+M	+	32.87	66.06	+	+	+	PA	33.31	65.87	+	33.43	65.63	+	+	+	+	PA	PA	7	b	
7355	Eau de process (industrie porcine)	Process water (swine industry)	st	st	st	st	-	0	0	-	-	-	NA												7	b	
7569	Eau de rinçage (industrie végétaux)	Cleaning water (vegetables industry)	+M	+p	+M	+M	+	25.84	66.28	+	+	+	PA	24.68	66.19	+	24.99	66.42	+	+	+	+	PA	PA	7	b	
7570	Eau de rinçage (industrie végétaux)	Cleaning water (vegetables industry)	+p	+p	+p	+M	+	27.83	65.93	+	+	+	PA	26.6	65.97	+	26.9	66.16	+	+	+	+	PA	PA	7	b	
7571	Eau de process (industrie porcine)	Process water (vegetables industry)	-	st	-	st	-	29.29/ 31.3/ 31.92	66.15/ 66.22/ 66.08	+/+/+	-	(MSRV -)	-	PPNA	0	0	-	29.84/ 33.17/ 33.54	66.13/ 66.36/ 66.31	+/+/+	-	-	-	NA	PPNA	7	b
7574	Eau de process (industrie poisson)	Process water (fish industry)	+p	+p	+p	+p	+	24.18	66.2	+	+	+	PA	23.18	66.71	+	23.1	66.19	+	+	+	+	PA	PA	7	b	
7575	Eau de process (industrie poisson)	Process water (fish industry)	+p	+p	+p	+p	+	25.03	66.17	+	+	+	PA	24.24	66.64	+	24.23	66.36	+	+	+	+	PA	PA	7	b	
7576	Eau de process (industrie poisson)	Process water (fish industry)	+p	+p	+p	+p	+	26.1	66.29	+	+	+	PA	25.3	66.26	+	25.87	66.45	+	+	+	+	PA	PA	7	b	
7577	Eau de process (industrie poisson)	Process water (fish industry)	+p	+M	+M	+M	+	27.45	66.18	+	+	+	PA	27.62	66.34	+	27.46	66.16	+	+	+	+	PA	PA	7	b	
7671	Eau pasteurisateur (industrie ovoproduits)	Water from pasteurizer (ovoproduct industry)	st	st	st	st	-	0	0	-	-	-	NA												7	b	
7672	Eau pasteurisateur (industrie ovoproduits)	Water from pasteurizer (ovoproduct industry)	st	st	st	st	-	0	0	-	-	-	NA												7	b	
7773	Eau de rinçage (Charcuterie)	Cleaning water (delicatessen industry)	-	st	-	-	-	0	0	-	-	-	NA												7	b	
7774	Eau de rinçage (Charcuterie)	Cleaning water (delicatessen industry)	+M	+p	+M	+p	+	24.56	66.35	+	+	+	PA	24.88	66.57	+	24.6	66.4	+	+	+	+	PA	PA	7	b	
7775	Eau de rinçage (Charcuterie)	Cleaning water (delicatessen industry)	+M	+p	+M	+p	+	26.24	66.35	+	+	+	PA	26.66	66.59	+	26.76	66.57	+	+	+	+	PA	PA	7	b	
2410	Lingette trocard	Porcine environment	st	st	st	st	-	0	0	-	-	-	NA												7	c	
2411	Lingette podium rosette	Porcine environment	-	-	-	-	-	0	0	-	-	-	NA												7	c	
2412	Lingette lanière frigo	Porcine environment	-	-	-	-	-	0	0	-	-	-	NA												7	c	
2413	Lingette cisaille tête	Porcine environment	st	st	st	st	-	0	0	-	-	-	NA												7	c	
2414	Lingette chariot têtes	Porcine environment	-	-	-	-	-	0	0	-	-	-	NA												7	c	
2415	Lingette rebord podium abats	Porcine environment	-	-	-	-	-	0	0	-	-	-	NA												7	c	
7356	Lingette (industrie porcine)	Wipe (swine industry)	st	st	st	st	-	0	0	-	-	-	NA												7	c	
7357	Lingette (industrie porcine)	Wipe (swine industry)	-	-	-	-	-	0	0	-	-	-	NA												7	c	
7358	Lingette (industrie porcine)	Wipe (swine industry)	-	-	-	-	-	0	0	-	-	-	NA												7	c	
7360	Lingette (industrie porcine)	Wipe (swine industry)	-	-	-	-	-	0	0	-	-	-	NA												7	c	
7361	Lingette (industrie porcine)	Wipe (swine industry)	-	-	-	-	-	0	0	-	-	-	NA												7	c	
7362	Lingette (industrie porcine)	Wipe (swine industry)	-	-	-	-	-	0	0	-	-	-	NA												7	c	
7363	Lingette (industrie porcine)	Wipe (swine industry)	-	-	-	-	-	0	0	-	-	-	NA												7	c	
7364	Lingette (industrie porcine)	Wipe (swine industry)	+M	+M	+M	+M	+	32.51	66	+	+	+	PA	32.61	32.97	+	33.2	65.32	+	+	+	+	PA	PA	7	c	
7365	Lingette (industrie porcine)	Wipe (swine industry)	-	-	-	-	-	0	0	-	-	-	NA												7	c	

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Sample N°	Product (french name)	Product	Reference method: ISO 6579*					Alternative method: GENE-UP <i>Salmonella</i>															Category	Type		
			RVS broth		MKTTn broth		ISO 6579 Result	BPW for 18h at 37°C					BPW for 18h at 37°C + 72h at 5 ± 3°C													
								PCR			Confirmation final result	Final result 18h	Agreement 18h	PCR-BPW 72h			PCR-Lysate 72h			Confirmation final result	Final result 72h BPW	Final result 72h Lysate			Agreement 72h BPW	Agreement 72h Lysate
			Cp	Tm	Result	Cp	Tm	Result	Cp	Tm				Result												
7366	Lingette (industrie porcine)	Wipe (swine industry)	-	-	-	-	-	0	0	-	-	-	NA												7	c
7367	Lingette (industrie porcine)	Wipe (swine industry)	-	-	-	-	-	0	0	-	-	-	NA												7	c
7661	Lingette ustensiles (industrie végétaux)	Wipe (vegetables industry)	+p	+p	+p	+p	+	31.85	65.92	+	+	+	PA	31.1	66.09	+	31.87	65.97	+	+	+	+	PA	PA	7	c
7662	Lingette plats pesés (industrie végétaux)	Wipe (vegetables industry)	+p	+p	+M	+p	+	32.43	66.17	+	+	+	PA	31.8	66	+	32.34	66.21	+	+	+	+	PA	PA	7	c
7663	Lingette cutter (industrie végétaux)	Wipe (vegetables industry)	-	-	+M	+p	+	0/0/0	0/0/0	-/-	+	-	ND	0	0	-	0	0	-	-	-	-	ND	ND	7	c
7664	Lingette cutter (industrie végétaux)	Wipe (vegetables industry)	-	-	-	-	-	0	0	-	-	-	NA												7	c
7665	Lingette ustensiles (industrie laitière)	Wipe (dairy industry)	+p	+p	+p	+p	+	30.69	66.16	+	+	+	PA	29.99	66.21	+	30.69	66.67	+	+	+	+	PA	PA	7	c
7666	Lingette table (industrie laitière)	Wipe (dairy industry)	+p	+p	+p	+p	+	30.46	66.01	+	+	+	PA	29.89	66.05	+	30.86	66.41	+	+	+	+	PA	PA	7	c
7786	Lingette (charcuterie)	Wipe (delicatessen industry)	+M	+p	+M	+p	+	29.46	65.92	+	+	+	PA	29	66.44	+	29.44	65.91	+	+	+	+	PA	PA	7	c
7787	Lingette (charcuterie)	Wipe (delicatessen industry)	-	-	-	-	-	0	0	-	-	-	NA												7	c
7788	Lingette après désinfection (charcuterie)	Wipe after cleaning (delicatessen industry)	+p	+p	+M	+p	+	22.18	66.36	+	+	+	PA	21.11	66.17	+	22.53	66.32	+	+	+	+	PA	PA	7	c
7789	Lingette après désinfection (charcuterie)	Wipe after cleaning (delicatessen industry)	+M	+p	+M	+p	+	26.2	66.33	+	+	+	PA	26.03	66.44	+	66.47	65.19	+	+	+	+	PA	PA	7	c
7790	Lingette après désinfection (charcuterie)	Wipe after cleaning (delicatessen industry)	+M	+p	+M	+p	+	23.93	66.63	+	+	+	PA	24.27	66.73	+	24.62	66.42	+	+	+	+	PA	PA	7	c

**COCOA AND CHOCOLATES (375 g test portion) - Specific protocol ④ (Extension No 3)**

Sample N°	Product (French name)	Product	Reference method: ISO 6579-1*					Alternative method: GENE-UP Salmonella																Category	Type	
			RVS broth		MKTTn broth		ISO 6579-1 Result	BPW for 20h at 37°C					BPW for 20h at 37°C + 72h at 5 ± 3°C													
			XLD	ASAP	XLD	ASAP		PCR			Confirmation final result	Final resul	Agreement	PCR-72h BPW 1/10			PCR-72h Lysate			Confirmation final result	Final result 72h BPW 1/10	Final result 72h Lysate	Agreement 72h BPW 1/10			Agreement 72h Lysate
								Cp	Tm	Result				Cp	Tm	Result	Cp	Tm	Result							
3260	Chocolat en poudre (32% de cacao)	Cocoa powder (cocoa 32%)	+p	+p	+p	+p	+	32,76	66,16	+	+	+	PA	32,69	66,19	+	33,11	66,28	+	+	+	+	PA	PA	10	a
3261	Chocolat en poudre (32% de cacao)	Cocoa powder (cocoa 32%)	+M	+p	+p	+p	+	31,33	66,16	+	+	+	PA	31,58	66,45	+	31,54	66,26	+	+	+	+	PA	PA	10	a
3262	Chocolat en poudre (31,7% de cacao)	Cocoa powder (cocoa 31,7%)	+p	+p	+p	+p	+	29,4	66,13	+	+	+	PA	29,74	66,38	+	29,53	66,05	+	+	+	+	PA	PA	10	a
3263	Chocolat en poudre (31,7% de cacao)	Cocoa powder (cocoa 31,7%)	st	st	st	st	-	30,95	66,14	+	+	+	PD	31,16	66,22	+	30,66	66,16	+	+	+	+	PD	PD	10	a
3264	Chocolat en poudre (32% de cacao)	Cocoa powder (cocoa 32%)	+p	+p	+p	+p	+	0	0	-	-	-	ND	0	0	-	0	0	-	-	-	-	ND	ND	10	a
3265	Chocolat en poudre (32% de cacao)	Cocoa powder (cocoa 32%)	+p	+p	+p	+p	+	29,45	66,14	+	+	+	PA	30,22	66,31	+	30,49	66,3	+	+	+	+	PA	PA	10	a
3266	Poudre cacaotée (32% de cacao)	Cocoa powder (cocoa 32%)	st	st	st	st	-	33,94	66,41	+	+	+	PD	33,59	66,35	+	34,1	66,49	+	+	+	+	PD	PD	10	a
3267	Poudre cacaotée (32% de cacao)	Cocoa powder (cocoa 32%)	+p	+p	+p	+p	+	30,19	66,57	+	+	+	PA	32,72	66,43	+	30,53	66,22	+	+	+	+	PA	PA	10	a
3268	Poudre de cacao (21,3% de cacao)	Cocoa powder (cocoa 21,3%)	+p	+p	+p	+p	+	32,56	66,5	+	+	+	PA	30,24	66,21	+	32,87	66,19	+	+	+	+	PA	PA	10	a
3269	Poudre de cacao (21,3% de cacao)	Cocoa powder (cocoa 21,3%)	st	st	st	st	-	0	0	-	-	-	NA												10	a
3270	Chocolat en poudre (32% de cacao)	Cocoa powder (cocoa 32%)	+p	+p	+p	+p	+	31,42	66,13	+	+	+	PA	31,1	66,51	+	31,68	66,32	+	+	+	+	PA	PA	10	a
3271	Chocolat en poudre (32% de cacao)	Cocoa powder (cocoa 32%)	st	st	st	st	-	27,43	66,14	+	+	+	PD	26,78	66,26	+	27,65	66,09	+	+	+	+	PD	PD	10	a
3272	Poudre instantanée (20% de cacao)	Cocoa powder (cocoa 20%)	+M	+M	+p	+p	+	0	0	-	-	-	ND	0	0	-	0	0	-	-	-	-	ND	ND	10	a
3273	Poudre instantanée (20% de cacao)	Cocoa powder (cocoa 20%)	-	-	-	-	-	33,13	66,09	+	+	+	PD	33,03	66,29	+	32,95	66,17	+	+	+	+	PD	PD	10	a
3274	Poudre de cacao (32% de cacao)	Cocoa powder (cocoa 32%)	+p	+p	+p	+p	+	29,72	66,51	+	+	+	PA	29,03	66,2	+	29,46	66,05	+	+	+	+	PA	PA	10	a
3275	Poudre de cacao (32% de cacao)	Cocoa powder (cocoa 32%)	st	st	st	st	-	0	0	-	-	-	NA												10	a
3276	Poudre de cacao (32% de cacao)	Cocoa powder (cocoa 32%)	+p	+p	+p	+p	+	28,47	66,32	+	+	+	PA	28,95	66,37	+	28,24	66,1	+	+	+	+	PA	PA	10	a
3277	Poudre de cacao (32% de cacao)	Cocoa powder (cocoa 32%)	st	st	st	st	-	0	0	-	-	-	NA												10	a
3278	Poudre de cacao (20% de cacao)	Cocoa powder (cocoa 20%)	+p	+p	+p	+p	+	0	0	-	-	-	ND	0	0	-	0	0	-	-	-	-	ND	ND	10	a
3279	Chocolat en poudre (32% de cacao)	Cocoa powder (cocoa 32%)	+p	+p	+p	+p	+	0	0	-	-	-	ND	0	0	-	0	0	-	-	-	-	ND	ND	10	a
7048	Poudre de cacao alcalinisée bio	Alkalized organic cocoa powder	st	st	st	st	-	0	0	-	-	-	NA												10	a
7049	Poudre de cacao à matière grasse réduite	Fat reduced cocoa powder	st	st	st	st	-	0	0	-	-	-	NA												10	a
7050	Poudre de cacao à matière grasse réduite	Fat reduced cocoa powder	st	st	st	st	-	0	0	-	-	-	NA												10	a
7692	Poudre de cacao	Cocoa powder	st	st	st	st	-	0	0	-	-	-	NA												10	a
6691	Chocolat blanc	White chocolate	st	st	st	st	-	0	0	-	-	-	NA												10	b
6692	Chocolat blanc	White chocolate	+m	+m	+p	+p	+	29,51	66,26	+	+	+	PA	29,54	66,43	+	30,27	66,06	+	+	+	+	PA	PA	10	b
6693	Chocolat noir	Dark chocolate	st	st	st	st	-	33,12	66,48	+	+	+	PD	33,53	66,19	+	33,88	65,89	+	+	+	+	PD	PD	10	b

\* Analyses performed according to the COFRAC accreditation

COCOA AND CHOCOLATES (375 g test portion) - Specific protocol ④ (Extension No 3)

Sample N°	Product (French name)	Product	Reference method: ISO 6579-1*					Alternative method: GENE-UP Salmonella																Category	Type	
			RVS broth		MKTTn broth		ISO 6579-1 Result	BPW for 20h at 37°C					BPW for 20h at 37°C + 72h at 5 ± 3°C													
			XLD	ASAP	XLD	ASAP		PCR			Confirmation final result	Final resul	Agreement	PCR-72h BPW 1/10			PCR-72h Lysate			Confirmation final result	Final result 72h BPW 1/10	Final result 72h Lysate	Agreement 72h BPW 1/10			Agreement 72h Lysate
								Cp	Tm	Result				Cp	Tm	Result	Cp	Tm	Result							
6694	Chocolat noisette	Nuts chocolate	+p	+p	+p	+p	+	27,29	66,14	+	+	+	PA	26,83	66,23	+	28,17	65,84	+	+	+	+	PA	PA	10	b
6695	Chocolat noisette	Nuts chocolate	+M	+M	+p	+p	+	30,01	66,25	+	+	+	PA	30,65	66,26	+	30,87	65,75	+	+	+	+	PA	PA	10	b
6696	Chocolat au lait	Milk chocolate	+p	+p	+p	+p	+	35,56	66,9	+	+	+	PA	0/34,99/34,99	0/66,55/66,41	-/+	35,33	65,84	+	+	-	+	ND	PA	10	b
6697	Chocolat au lait	Milk chocolate	+p	+p	+p	+p	+	32,01	66,45	+	+	+	PA	32,02	66,42	+	32,15	65,86	+	+	+	+	PA	PA	10	b
6698	Chocolat noir (65% cacao)	Dark chocolate (65% cocoa)	-	-	-	-	-	31,1	66,49	+	+	+	PD	31,04	66,12	+	33,01	66,11	+	+	+	+	PD	PD	10	b
6699	Chocolat de couverture (75% cacao)	Couverture chocolate (75% cocoa)	+p	+p	+p	+p	+	28,82	66,34	+	+	+	PA	27,66	66,39	+	29,23	66,14	+	+	+	+	PA	PA	10	b
6700	Chocolat boulanger (44% cacao)	Chocolate for bakery (44% cocoa)	st	st	st	st	-	0	0	-	-	-	NA												10	b
7051	Chocolat blanc	White chocolate	-	-	-	-	-	0	0	-	-	-	NA												10	b
7052	Chocolat noir	Dark chocolate	st	st	st	st	-	0	0	-	-	-	NA												10	b
7053	Chocolat noisette	Nuts chocolate	-	-	-	-	-	0	0	-	-	-	NA												10	b
7693	Chocolat noir (50% cacao)	Dark chocolate (50% cocoa)	st	st	st	st	-	0	0	-	-	-	NA												10	b
7694	Chocolat noir (75% cacao)	Dark chocolate (75% cocoa)	st	st	st	st	-	0	0	-	-	-	NA												10	b
7695	Chocolat noir	Dark chocolate	-	-	-	-	-	0	0	-	-	-	NA												10	b
7696	Chocolat noir (65% cacao)	Dark chocolate (65% cocoa)	st	st	st	st	-	0	0	-	-	-	NA												10	b
7697	Chocolat au lait (41% cacao)	Milk chocolate (41% cocoa)	st	st	st	st	-	0	0	-	-	-	NA												10	b
7698	Chocolat boulanger (44% cacao)	Chocolate for bakery (44% cocoa)	-	-	-	-	-	0	0	-	-	-	NA												10	b
7699	Chocolat boulanger (44% cacao)	Chocolate for bakery (44% cocoa)	st	st	st	st	-	0	0	-	-	-	NA												10	b
4260	Liqueur de cacao	Cocoa liquor	st	st	st	st	-	0	0	-	-	-	NA												10	c
6681	Fèves de cacao	Cocoa beans	+M	+1/2	+m/	+m	+	0/0/0	0/0/0	-/-	+	-	ND	0	0	-	0	0	-	+	-	-	ND	ND	10	c
6682	Liqueur de cacao nature	Natural cocoa liquor	st	st	st	st	-	0	0	-	-	-	NA												10	c
6683	Beurre de cacao	Cocoa butter	+M	+M	+M	+p	+	25,44	66,27	+	+	+	PA	24,29	66,41	+	24,73	66,19	+	+	+	+	PA	PA	10	c
6684	Beurre de cacao désodorisé	Deodorized cocoa butter	st	st	st	st	-	0	0	-	-	-	NA												10	c
6685	Beurre de cacao non désodorisé	Non deodorized cocoa butter	st	st	st	st	-	0	0	-	-	-	NA												10	c
6686	Masse de cacao	Cocoa mass	st	st	st	st	-	0	0	-	-	-	NA												10	c
6688	Masse de cacao	Cocoa mass	+p	+p	+p	+M	+	27,8	66,48	+	+	+	PA	26,8	66,68	+	27,81	66,62	+	+	+	+	PA	PA	10	c
6689	Masse de cacao	Cocoa mass	st	st	st	st	-	0/35,03/0	0/66,74/0	-/+	+	-	NA	0/0/37,5	0/0/66,76	-/+	34,84	66,79	+	+	-	+	NA	PD	10	c
6690	Masse de cacao	Cocoa mass	+p	+p	+p	+p	+	0	0	-	-	-	ND	0	0	-	0	0	-	-	-	-	ND	ND	10	c
7054	Masse de cacao	Cocoa mass	st	st	st	st	-	0	0	-	-	-	NA												10	c
7055	Masse de cacao	Cocoa mass	st	st	st	st	-	0	0	-	-	-	NA												10	c
7056	Masse de cacao	Cocoa mass	st	st	st	st	-	0	0	-	-	-	NA												10	c
7700	Masse de cacao	Cocoa mass	+p	+p	+p	+p	+	26,54	66,57	+	+	+	PA	25,56	66,72	+	25,85	66,52	+	+	+	+	PA	PA	10	c
7701	Masse de cacao	Cocoa mass	+p	+p	+p	+p	+	24,48	66,19	+	+	+	PA	23,85	66,4	+	23,96	66,27	+	+	+	+	PA	PA	10	c
7702	Masse de cacao	Cocoa mass	+p	+p	+p	+p	+	24,03	66,36	+	+	+	PA	23,71	66,53	+	23,93	66,42	+	+	+	+	PA	PA	10	c
7703	Beurre de cacao	Cocoa butter	+p	+p	+p	+p	+	24,7	66,33	+	+	+	PA	23,78	66,48	+	24,27	66,29	+	+	+	+	PA	PA	10	c
7704	Beurre de cacao	Cocoa butter	st	st	st	st	-	0	0	-	-	-	NA												10	c
7705	Masse de cacao	Cocoa mass	st	st	st	st	-	0	0	-	-	-	NA												10	c
7706	Masse de cacao	Cocoa mass	st	st	st	st	-	0	0	-	-	-	NA												10	c
7707	Masse de cacao	Cocoa mass	st	st	st	st	-	0	0	-	-	-	NA												10	c

COCOA AND CHOCOLATES (375 g test portion) - ISO ENRICHMENT (Extension No 3)																										
Sample N°	Product (french name)	Product	Reference method: ISO 6579-1*					Alternative method: GENE-UP <i>Salmonella</i>																	Category	Type
			RVS broth		MKTTn broth		ISO 6579-1 Result	ISO Enrichment for 22h at 37°C					ISO Enrichment for 22h at 37°C +72h at 5°C ± 3°C													
			Cp	Tm	Result	Confirmation Final result		Final result	Agreement	PCR						Final result confirmation	Final result BPW 72h	Final result Lysate 72h	Agreement 72h ISO 1/10 (new dilution)	Agreement 72h Lysate						
										BPW 72h			Lysate 72h													
XLD	ASAP	XLD	ASAP	Cp	Tm	Result	Cp	Tm	Result	Cp	Tm	Result	Cp	Tm	Result											
3260	Chocolat en poudre (32% de cacao)	Cocoa powder (cocoa 32%)	+p	+p	+p	+p	+	31,77	66,23	+	+	+	PA	31,24	66,4	+	31,52	66,14	+	+	+	+	PA	PA	10	a
3261	Chocolat en poudre (32% de cacao)	Cocoa powder (cocoa 32%)	+M	+p	+p	+p	+	31,83	66,55	+	+	+	PA	31,75	66,22	+	32,14	66,09	+	+	+	+	PA	PA	10	a
3262	Chocolat en poudre (31,7% de cacao)	Cocoa powder (cocoa 31,7%)	+p	+p	+p	+p	+	32,69	66,6	+	+	+	PA	32,25	66,31	+	32,14	66,25	+	+	+	+	PA	PA	10	a
3263	Chocolat en poudre (31,7% de cacao)	Cocoa powder (cocoa 31,7%)	st	st	st	st	-	0	0	-	-	-	NA												10	a
3264	Chocolat en poudre (32% de cacao)	Cocoa powder (cocoa 32%)	+p	+p	+p	+p	+	30,82	66,46	+	+	+	PA	30,52	66,27	+	30,14	66,23	+	+	+	+	PA	PA	10	a
3265	Chocolat en poudre (32% de cacao)	Cocoa powder (cocoa 32%)	+p	+p	+p	+p	+	33,86	66,4	+	+	+	PA	32,85	66,29	+	34,28	66,33	+	+	+	+	PA	PA	10	a
3266	Poudre cacaotée (32% de cacao)	Cocoa powder (cocoa 32%)	st	st	st	st	-	0	0	-	-	-	NA												10	a
3267	Poudre cacaotée (32% de cacao)	Cocoa powder (cocoa 32%)	+p	+p	+p	+p	+	30,84	66,36	+	+	+	PA	30,62	66,34	+	30,8	66,17	+	+	+	+	PA	PA	10	a
3268	Poudre de cacao (21,3% de cacao)	Cocoa powder (cocoa 21,3%)	+p	+p	+p	+p	+	29,14	66,18	+	+	+	PA	29,27	66,17	+	29,05	66,11	+	+	+	+	PA	PA	10	a
3269	Poudre de cacao (21,3% de cacao)	Cocoa powder (cocoa 21,3%)	st	st	st	st	-	0	0	-	-	-	NA												10	a
3270	Chocolat en poudre (32% de cacao)	Cocoa powder (cocoa 32%)	+p	+p	+p	+p	+	26,49	66,16	+	+	+	PA	26,19	66,54	+	25,26	66,33	+	+	+	+	PA	PA	10	a
3271	Chocolat en poudre (32% de cacao)	Cocoa powder (cocoa 32%)	st	st	st	st	-	0	0	-	-	-	NA												10	a
3272	Poudre instantanée (20% de cacao)	Cocoa powder (cocoa 20%)	+M	+M	+p	+p	+	31,72	65,92	+	+	+	PA	31,81	66,33	+	31,61	66,2	+	+	+	+	PA	PA	10	a
3273	Poudre instantanée (20% de cacao)	Cocoa powder (cocoa 20%)	-	-	-	-	-	0	0	-	-	-	NA												10	a
3274	Poudre de cacao (32% de cacao)	Cocoa powder (cocoa 32%)	+p	+p	+p	+p	+	31,58	65,99	+	+	+	PA	30,85	66,47	+	30,92	66,42	+	+	+	+	PA	PA	10	a
3275	Poudre de cacao (32% de cacao)	Cocoa powder (cocoa 32%)	st	st	st	st	-	0	0	-	-	-	NA												10	a
3276	Poudre de cacao (32% de cacao)	Cocoa powder (cocoa 32%)	+p	+p	+p	+p	+	31,85	65,81	+	+	+	PA	31,43	66,4	+	31,61	66,41	+	+	+	+	PA	PA	10	a
3277	Poudre de cacao (32% de cacao)	Cocoa powder (cocoa 32%)	st	st	st	st	-	0	0	-	-	-	NA												10	a
3278	Poudre de cacao (20% de cacao)	Cocoa powder (cocoa 20%)	+p	+p	+p	+p	+	30,53	65,49	+	+	+	PA	36,87	62,05	+	31,01	66,24	+	+	+	+	PA	PA	10	a
3279	Chocolat en poudre (32% de cacao)	Cocoa powder (cocoa 32%)	+p	+p	+p	+p	+	31,52	66,3	+	+	+	PA	32,45	66,35	+	31,02	66,35	+	+	+	+	PA	PA	10	a
7048	Poudre de cacao alcalinisée bio	Alkalized organic cocoa powder	st	st	st	st	-	0	0	-	-	-	NA	24,83	66,23	+	25,22	66,24	+	+	+	/	/	10	a	
7049	Poudre de cacao à matière grasse réduite	Fat reduced cocoa powder	st	st	st	st	-	0	0	-	-	-	NA	23,78	66,04	+	24,5	66,09	+	+	+	/	/	10	a	
7050	Poudre de cacao à matière grasse réduite	Fat reduced cocoa powder	st	st	st	st	-	0	0	-	-	-	NA	/	/	/	/	/	/	/	/	/	/	/	10	a
4261	Chocolat noir (50% cacao)	Dark chocolate (50% cocoa)	st	st	st	st	-	0	0	-	-	-	NA												10	b

\* Analyses performed according to the COFRAC accreditation





MILK POWDERS (375 g test portion) - Specific protocol ⑤ Extension No 3

Sample N°	Product (french name)	Product	Reference method: ISO 6579-1*					Alternative method: GENE-UP Salmonella																	Category	Type	
			RVS broth		MKTTn broth		ISO 6579-1 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													
			XLD	ASAP	XLD	ASAP		PCR			Confirmation final result	Final result	Agreement	PCR-BPW 72h			PCR-Lysate 72h			Confirmation final result	Final result 72h BPW	Final result 72h Lysate	Agreement 72h BPW	Agreement 72h Lysate			
								Cp	Tm	Result				Cp	Tm	Result	Cp	Tm	Result								
4487	Poudre de lait écrémé	Skim milk powder	+p	+p	+p	+p	+	0	0	-	-	-	ND	0	0	-	0	0	-	-	-	-	-	ND	ND	11	a
4488	Poudre de lait écrémé	Skim milk powder	+p	+p	+p	+p	+	29,55	64,31	+	+	+	PA	25,54	65,15	+	27,55	64,77	+	+	+	+	+	PA	PA	11	a
4489	Poudre de lait écrémé	Skim milk powder	+p	+p	+p	+p	+	0	0	-	-	-	ND	0	0	-	0	0	-	-	-	-	-	ND	ND	11	a
4490	Poudre de lait demi-écrémé	Half-skim milk powder	st	st	st	st	-	21,5	65,69	+	+	+	PD	21,04	65,92	+	20,79	65,33	+	+	+	+	PD	PD	11	a	
4491	Lait en poudre	Milk powder	st	st	st	st	-	35,57	65,13	+	+	+	PD	35,35	65,04	+	0	0	-	+	+	-	PD	NA	11	a	
5540	Lait entier en poudre	Milk powder	-	-	-	-	-	26,83	65,26	+	+	+	PD	24	65,53	+	24,62	65,78	+	+	+	+	PD	PD	11	a	
5541	Lait en poudre écrémé	Skim milk powder	+p	+p	+p	+p	+	0	0	-	-	-	ND	0	0	-	0	0	-	-	-	-	-	ND	ND	11	a
5542	Lait en poudre écrémé	Skim milk powder	+p	+p	+p	+p	+	0	0	-	-	-	ND	0	0	-	0	0	-	-	-	-	-	ND	ND	11	a
5543	Lait en poudre écrémé	Skim milk powder	st	st	st	st	-	0	0	-	-	-	NA	0	0	-	0	0	-	-	-	-	-	NA	NA	11	a
5544	Lait en poudre écrémé	Skim milk powder	st	st	st	st	-	0	0	-	-	-	NA	0	0	-	0	0	-	-	-	-	-	NA	NA	11	a
7194	Lait en poudre écrémé	Skim milk powder	st	st	st	st	-	0	0	-	-	-	NA													11	a
7195	Lait en poudre écrémé	Skim milk powder	+p	+p	+p	+p	+	32,82	64,66	+	+	+	PA	31,78	64,73	+	33,73	63,93	+	+	+	+	PA	PA	11	a	
7196	Lait en poudre écrémé	Skim milk powder	st	st	st	st	-	35,35	65,06	+	+	+	PD	33,16	64,73	+	34,92	64,74	+	+	+	+	PD	PD	11	a	
7197	Lait en poudre écrémé	Skim milk powder	st	st	st	st	-	26,39	65,03	+	+	+	PD	23,01	65,31	+	25,92	65,02	+	+	+	+	PD	PD	11	a	
7198	Lait en poudre demi-écrémé	Half-skim milk powder	+p	+p	+p	+p	+	34,71	64,82	+	+	+	PA	31,8	65,1	+	35,48	64,76	+	+	+	+	PA	PA	11	a	
7869	Lait en poudre entier	Milk powder	st	st	st	st	-	0	0	-	-	-	NA													11	a
7870	Lait en poudre demi-écrémé	Half-skim milk powder	st	st	st	st	-	0	0	-	-	-	NA													11	a
7876	Lait en poudre écrémé	Skim milk powder	st	st	st	st	-	0	0	-	-	-	NA													11	a
7877	Lait en poudre écrémé	Skim milk powder	st	st	st	st	-	0	0	-	-	-	NA													11	a
7878	Lait en poudre écrémé	Skim milk powder	st	st	st	st	-	0	0	-	-	-	NA													11	a
7879	Lait en poudre écrémé	Skim milk powder	st	st	st	st	-	0	0	-	-	-	NA													11	a
7880	Lait en poudre écrémé	Skim milk powder	st	st	st	st	-	0	0	-	-	-	NA													11	a
4492	Lait infantile sans probiotiques	Infant formula without probiotics	st	st	st	st	-	27,98	65,59	+	+	+	PD	27,3	65,7	+	27,12	65,63	+	+	+	+	PD	PD	11	b	
4493	Lait infantile sans probiotiques	Infant formula without probiotics	st	st	st	st	-	20,49	66,33	+	+	+	PD	19,44	66,35	+	19,71	66,27	+	+	+	+	PD	PD	11	b	
4494	Lait infantile sans probiotiques	Infant formula without probiotics	+p	+p	+p	+p	+	0/0/0	0/0/0	-/-	+	-	ND	35,83	66,35	+	0/0/0	0/0/0	-/-	+	+	-	PA	ND	11	b	
4495	Lait infantile sans probiotiques	Infant formula without probiotics	+p	+p	+p	+p	+	23,67	66,19	+	+	+	PA	23,55	65,85	+	23,1	66,18	+	+	+	+	PA	PA	11	b	
4496	Lait infantile sans probiotiques	Infant formula without probiotics	+p	+p	+p	+p	+	19,78	65,97	+	+	+	PA	19,71	66,11	+	19,29	66,12	+	+	+	+	PA	PA	11	b	
5545	Lait infantile sans probiotiques	Infant formula without probiotics	+p	+p	+p	+p	+	20,55	66,08	+	+	+	PA	20,15	66,3	+	21,76	65,99	+	+	+	+	PA	PA	11	b	

\* Analyses performed according to the COFRAC accreditation

MILK POWDERS (375 g test portion) - Specific protocol ⑤ Extension No 3

Sample N°	Product (french name)	Product	Reference method: ISO 6579-1*					Alternative method: GENE-UP Salmonella																	Category	Type
			RVS broth		MKTTn broth		ISO 6579-1 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												
			XLD	ASAP	XLD	ASAP		PCR			Confirmation final result	Final result	Agreement	PCR-BPW 72h			PCR-Lysate 72h			Confirmation final result	Final result 72h BPW	Final result 72h Lysate	Agreement 72h BPW	Agreement 72h Lysate		
								Cp	Tm	Result				Cp	Tm	Result	Cp	Tm	Result							
5546	Lait infantile sans probiotiques	Infant formula without probiotics	+p	+p	+p	+p	+	20,33	66,01	+	+	+	PA	20,73	66,3	+	19,92	65,93	+	+	+	+	PA	PA	11	b
5547	Lait infantile sans probiotiques	Infant formula without probiotics	+p	+p	+p	+p	+	19,67	66,45	+	+	+	PA	19,97	66,53	+	20,32	66,19	+	+	+	+	PA	PA	11	b
5548	Lait infantile sans probiotiques	Infant formula without probiotics	+p	+p	+p	+p	+	25,74	65,84	+	+	+	PA	27,11	65,49	+	25,66	66,05	+	+	+	+	PA	PA	11	b
5549	Lait infantile sans probiotiques	Infant formula without probiotics	+p	+p	+p	+p	+	20,24	65,87	+	+	+	PA	21,43	66,01	+	20,17	66,09	+	+	+	+	PA	PA	11	b
7871	Lait infantile sans probiotiques	Infant formula without probiotics	st	st	st	st	-	0	0	-	-	-	NA												11	b
7872	Lait infantile sans probiotiques	Infant formula without probiotics	st	st	st	st	-	0	0	-	-	-	NA												11	b
7873	Lait infantile sans probiotiques	Infant formula without probiotics	st	st	st	st	-	0	0	-	-	-	NA												11	b
7874	Lait infantile sans probiotiques	Infant formula without probiotics	st	st	st	st	-	0	0	-	-	-	NA												11	b
7881	Lait infantile sans probiotiques	Infant formula without probiotics	st	st	st	st	-	0	0	-	-	-	NA												11	b
7882	Lait infantile sans probiotiques	Infant formula without probiotics	st	st	st	st	-	0	0	-	-	-	NA												11	b
7883	Lait infantile sans probiotiques	Infant formula without probiotics	st	st	st	st	-	0	0	-	-	-	NA												11	b
7884	Lait infantile sans probiotiques	Infant formula without probiotics	st	st	st	st	-	0	0	-	-	-	NA												11	b
7885	Lait infantile sans probiotiques	Infant formula without probiotics	st	st	st	st	-	0	0	-	-	-	NA												11	b
7886	Lait infantile sans probiotiques	Infant formula without probiotics	st	st	st	st	-	0	0	-	-	-	NA												11	b
4497	Lait infantile avec probiotiques (3,2.10 <sup>6</sup> UFC/g)	Infant formula with probiotics (3,2.10 <sup>6</sup> CFU/g)	st	st	st	st	-	36,42	66,04	+	+	+	PD	0/0/0	0/0/0	-/-	0/0/36,37	0/0/65,32	-/+	+	-	-	NA	NA	11	c
4498	Lait infantile avec probiotiques (6,4.10 <sup>5</sup> UFC/g)	Infant formula with probiotics (6,4.10 <sup>5</sup> CFU/g)	+p	+p	+p	+p	+	28,77	65,54	+	+	+	PA	28,24	65,54	+	28,49	65,51	+	+	+	+	PA	PA	11	c
4499	Lait infantile avec probiotiques (5,2.10 <sup>6</sup> UFC/g)	Infant formula with probiotics (5,2.10 <sup>6</sup> CFU/g)	st	st	st	st	-	0	0	-	-	-	NA	0	0	-	0	0	-	-	-	-	NA	NA	11	c
4500	Lait infantile avec probiotiques (2,3.10 <sup>6</sup> UFC/g)	Infant formula with probiotics (2,3.10 <sup>6</sup> CFU/g)	st	st	st	st	-	27,49	66,29	+	+	+	PD	26,81	66,2	+	27,09	65,75	+	+	+	+	PD	PD	11	c
4501	Lait infantile avec probiotiques (2,0.10 <sup>5</sup> UFC/g)	Infant formula with probiotics (2,0.10 <sup>5</sup> CFU/g)	+p	+p	+p	+p	+	21,77	66,31	+	+	+	PA	21,32	66,29	+	21,41	65,76	+	+	+	+	PA	PA	11	c
5550	Lait infantile avec probiotiques (2,0.10 <sup>7</sup> CFU/g)	Infant formula with probiotics (2,0.10 <sup>7</sup> CFU/g)	+p	+p	+p	+p	+	19,66	66,1	+	+	+	PA	20,12	66,19	+	19,48	66,27	+	+	+	+	PA	PA	11	c
5551	Lait infantile avec probiotiques (2,4.10 <sup>5</sup> CFU/g)	Infant formula with probiotics (2,4.10 <sup>5</sup> CFU/g)	+p	+p	+p	+p	+	19,64	66,05	+	+	+	PA	20,44	66,07	+	19,63	66,27	+	+	+	+	PA	PA	11	c
5552	Lait infantile avec probiotiques (3,0.10 <sup>5</sup> CFU/g)	Infant formula with probiotics (3,0.10 <sup>5</sup> CFU/g)	+p	+p	+p	+p	+	19,64	66,16	+	+	+	PA	20,06	66,17	+	19,83	65,98	+	+	+	+	PA	PA	11	c
5553	Lait infantile avec probiotiques (1,4.10 <sup>7</sup> CFU/g)	Infant formula with probiotics (1,4.10 <sup>7</sup> CFU/g)	+p	+p	+p	+p	+	20,02	66,16	+	+	+	PA	20,5	66,15	+	19,94	66,42	+	+	+	+	PA	PA	11	c
5554	Lait infantile avec probiotiques (1,0.10 <sup>7</sup> CFU/g)	Infant formula with probiotics (1,0.10 <sup>7</sup> CFU/g)	+p	+p	+p	+p	+	20,4	65,8	+	+	+	PA	21,52	65,94	+	20,54	66,05	+	+	+	+	PA	PA	11	c
5555	Lait infantile avec probiotiques (6,7.10 <sup>6</sup> CFU/g)	Infant formula with probiotics (6,7.10 <sup>6</sup> CFU/g)	+p	+p	+p	+p	+	20,52	66,13	+	+	+	PA	21,03	66,25	+	20,64	66,24	+	+	+	+	PA	PA	11	c
7875	Lait infantile avec probiotiques (<2.10 <sup>3</sup> UFC/g)	Infant formula with probiotics (<2.10 <sup>3</sup> CFU/g)	st	st	st	st	-	0	0	-	-	-	NA												11	c

MILK POWDERS (375 g test portion) - Specific protocol ⑤ Extension No 3

Sample N°	Product (french name)	Product	Reference method: ISO 6579-1*					Alternative method: GENE-UP Salmonella																	Category	Type			
			RVS broth		MKTTn broth		ISO 6579-1 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															
			XLD	ASAP	XLD	ASAP		PCR			Confirmation final result	Final result	Agreement	PCR-BPW 72h			PCR-Lysate 72h			Confirmation final result	Final result 72h BPW	Final result 72h Lysate	Agreement 72h BPW	Agreement 72h Lysate					
								Cp	Tm	Result				Cp	Tm	Result	Cp	Tm	Result										
7887	Lait infantile avec probiotiques (3,0.10 <sup>5</sup> CFU/g)	Infant formula with probiotics (3,0.10 <sup>5</sup> CFU/g)	st	st	st	st	-	0	0	-	-	-	NA														11	c	
7888	Lait infantile avec probiotiques (<2,0.10 <sup>3</sup> CFU/g)	Infant formula with probiotics (<2,0.10 <sup>3</sup> CFU/g)	st	st	st	st	-	0	0	-	-	-	NA															11	c
7889	Lait infantile avec probiotiques (8,0.10 <sup>4</sup> CFU/g)	Infant formula with probiotics (8,0.10 <sup>4</sup> CFU/g)	st	st	st	st	-	0	0	-	-	-	NA															11	c
7890	Lait infantile avec probiotiques (<2,0.10 <sup>3</sup> CFU/g)	Infant formula with probiotics (<2,0.10 <sup>3</sup> CFU/g)	st	st	st	st	-	0	0	-	-	-	NA															11	c
7891	Lait infantile avec probiotiques (1,9.10 <sup>5</sup> CFU/g)	Infant formula with probiotics (1,9.10 <sup>5</sup> CFU/g)	st	st	st	st	-	0	0	-	-	-	NA															11	c
7892	Lait infantile avec probiotiques (8,6.10 <sup>5</sup> CFU/g)	Infant formula with probiotics (8,6.10 <sup>5</sup> CFU/g)	st	st	st	st	-	0	0	-	-	-	NA															11	c
7893	Lait infantile avec probiotiques (4,2.10 <sup>5</sup> CFU/g)	Infant formula with probiotics (4,2.10 <sup>5</sup> CFU/g)	st	st	st	st	-	0	0	-	-	-	NA															11	c
7894	Lait infantile avec probiotiques (8,0.10 <sup>6</sup> CFU/g)	Infant formula with probiotics (8,0.10 <sup>6</sup> CFU/g)	st	st	st	st	-	0	0	-	-	-	NA															11	c





PET FOOD (375 g test portion) – Specific protocol ⑥ - Extension No 4

Sample N°	Product (French name)	Product	Reference method: ISO 6579-1*					Alternative method: GENE-UP Salmonella																	Category	Type
			RVS broth		MKTTn broth		ISO 6579-1 Result	BPW 1/6 for 20h at 37°C					BPW 1/6 for 20h at 41,5°C + 72h at 5°C ± 3°C													
			XLD	ASAP	XLD	ASAP		PCR			Confirmation final result	Final result 18h	Agreement 18h	PCR-BPW 72h			PCR-Lysate 72h			Confirmation final result	Final result 72h BPW	Final result 72h Lysate	Agreement 72h BPW	Agreement 72h Lysate		
								Cp	Tm	Result				Cp	Tm	Result	Cp	Tm	Result							
6458	Saucisson pour chien	Sausage for dog	+M	+M	+M	+M	+	23,6	66,72	+	+	+	PA	23,84	66,06	+	23,08	66,04	+	+	+	+	PA	PA	12	a
6459	Saucisson pour chien	Sausage for dog	+p	+p	+p	+p	+	22,65	66,48	+	+	+	PA	24,03	65,98	+	22,17	66,38	+	+	+	+	PA	PA	12	a
6460	Pâté pour chien (poulet/carottes)	Pâté for dog (poultry/carrots)	+p	+p	+p	+p	+	21,79	66,81	+	+	+	PA	22,81	66,25	+	21,44	66,28	+	+	+	+	PA	PA	12	a
6461	Pâté pour chien (poisson/carottes)	Pâté for dog (fish/carrots)	+p	+p	+p	+p	+	23,1	66,25	+	+	+	PA	24,3	66,22	+	22,84	66,25	+	+	+	+	PA	PA	12	a
6462	Pâté pour chat (bœuf)	Pâté for cat (beef)	+p	+p	+p	+p	+	22,54	66,71	+	+	+	PA	21,95	65,96	+	24,19	66,05	+	+	+	+	PA	PA	12	a
6463	Pâté pour chat (saumon)	Pâté for cat (salmon)	+p	+p	+p	+p	+	23,76	66,69	+	+	+	PA	23,78	66,13	+	23,62	66,21	+	+	+	+	PA	PA	12	a
8575	Saucisse pour chien	Sausage for dog	+p	+p	+p	+p	+	21,43	56,5	+	+	+	PA	21,65	56,67	+	21,74	56,52	+	+	+	+	PA	PA	12	a
8576	Saucisse pour chien	Sausage for dog	+p	+p	+p	+p	+	22,53	65,96	+	+	+	PA	22,01	66,48	+	22,44	66,38	+	+	+	+	PA	PA	12	a
8577	Saucisse pour chien	Sausage for dog	+p	+p	+p	+p	+	22,46	65,88	+	+	+	PA	22,83	66,18	+	22,45	65,89	+	+	+	+	PA	PA	12	a
8578	Terrine pour chien (bœuf)	Pâté for dog (beef)	+p	+p	+p	+p	+	22,26	56,27	+	+	+	PA	22,88	56,65	+	22,61	56,44	+	+	+	+	PA	PA	12	a
8579	Terrine pour chat (bœuf)	Pâté for cat (beef)	+p	+p	+p	+p	+	21,5	65,94	+	+	+	PA	22,52	66,81	+	21,93	66,56	+	+	+	+	PA	PA	12	a
8580	Terrine pour chat (poulet)	Pâté for cat (chicken)	+p	+p	+p	+p	+	22,33	66,09	+	+	+	PA	22,46	66,27	+	21,67	66,12	+	+	+	+	PA	PA	12	a
8581	Terrine pour chat (saumon)	Pâté for cat (salmon)	+p	+p	+p	+p	+	22,53	56,45	+	+	+	PA	22,77	56,76	+	21,86	56,57	+	+	+	+	PA	PA	12	a
8582	Terrine pour chien (canard/légumes)	Pâté for dog (duck/vegetables)	+p	+p	+p	+p	+	20,85	66,54	+	+	+	PA	21,16	66,22	+	20,76	66,17	+	+	+	+	PA	PA	12	a
8583	Terrine pour chien (boeuf/carottes)	Pâté for dog (beef/carrots)	+p	+p	+p	+p	+	22,49	65,96	+	+	+	PA	22,56	66,01	+	21,31	65,89	+	+	+	+	PA	PA	12	a
8584	Terrine pour chien (volaille)	Pâté for dog (poultry)	+p	+p	+p	+p	+	20,98	56,41	+	+	+	PA	21,59	56,73	+	20,67	56,61	+	+	+	+	PA	PA	12	a
9526	Terrine pour chat (bœuf)	Pâté for cat (beef)	st	st	st	st	-	0	0	-	-	-	NA												12	a
9527	Terrine pour chat (Saumon)	Pâté for cat (salmon)	st	st	st	st	-	0	0	-	-	-	NA												12	a
9528	Terrine pour chat (poulet)	Pâté for cat (chicken)	st	st	st	st	-	0	0	-	-	-	NA												12	a
9529	Saucisson pour chien	Sausage for dog	st	st	st	st	-	0	0	-	-	-	NA												12	a
9573	Terrine pour chien (bœuf)	Pâté for dog (beef)	st	st	st	st	-	0	0	-	-	-	NA												12	a
9574	Terrine pour chien (bœuf/légumes)	Pâté for dog (beef/vegetables)	st	st	st	st	-	0	0	-	-	-	NA												12	a
9575	Terrine pour chien (agneau/légumes)	Pâté for dog (lamb/vegetables)	st	st	st	st	-	0	0	-	-	-	NA												12	a
9576	Terrine pour chien (volaille/foie/légumes)	Pâté for dog (poultry/liver/vegetables)	st	st	st	st	-	0	0	-	-	-	NA												12	a
9577	Terrine pour chien (volaille)	Pâté for dog (poultry)	st	st	st	st	-	0	0	-	-	-	NA												12	a

\* Analyses performed according to the COFRAC accreditation

PET FOOD (375 g test portion) – Specific protocol ⑥ - Extension No 4

Sample N°	Product (French name)	Product	Reference method: ISO 6579-1*					Alternative method: GENE-UP Salmonella															Category	Type					
			RVS broth		MKTTn broth		ISO 6579-1 Result	BPW 1/6 for 20h at 37°C					BPW 1/6 for 20h at 41,5°C + 72h at 5°C ± 3°C																
			XLD	ASAP	XLD	ASAP		PCR			Confirmation final result	Final result 18h	Agreement 18h	PCR-BPW 72h			PCR-Lysate 72h			Confirmation final result	Final result 72h BPW	Final result 72h Lysate			Agreement 72h BPW	Agreement 72h Lysate			
								Cp	Tm	Result				Cp	Tm	Result	Cp	Tm	Result										
9578	Terrine pour chat (saumon/truite)	Pâté for cat (salmon/trout)	st	st	st	st	-	0	0	-	-	-	NA														12	a	
9579	Terrine pour chat (lapin/foie/légumes)	Pâté for cat (rabbit/liver/vegetables)	st	st	st	st	-	0	0	-	-	-	NA															12	a
9580	Terrine pour chat (volaille/rognons)	Pâté for cat (poultry/kidney)	st	st	st	st	-	0	0	-	-	-	NA															12	a
9581	Saucisson pour chien	Sausage for dog	st	st	st	st	-	0	0	-	-	-	NA															12	a
9582	Saucisson pour chien	Sausage for dog	st	st	st	st	-	0	0	-	-	-	NA															12	a
9583	Saucisson pour chien	Sausage for dog	st	st	st	st	-	0	0	-	-	-	NA															12	a
6419	Croquettes chien (boeuf/légumes)	Pellets for dog (beef/vegetables)	+p	+p	+M	+M	+	23,44	66,24	+	+	+	PA	23,27	66,2	+	23,85	66,47	+	+	+	+	+	+	+	PA	PA	12	b
6420	Croquettes chien (bœuf)	Pellets for dog (beef)	-	-	-	-	-	0	0	-	-	-	NA															12	b
6421	Croquettes chien (bœuf)	Pellets for dog (beef)	+p	+p	+M	+M	+	29,55	65,8	+	+	+	PA	29,64	66,41	+	29,91	65,77	+	+	+	+	+	+	+	PA	PA	12	b
6422	Croquettes chat (lapin/volaille/légumes/céréales)	Pellets for cat (rabbit/poultry/vegetables/cereals)	+p	+p	+M	+M	+	0	0	-	-	-	ND	0	0	-	0	0	-	-	-	-	-	-	-	ND	ND	12	b
6423	Croquettes chat (saumon/thon/légumes)	Pellets for cat (salmon/tuna/vegetables)	+p	+p	+M	+M	+	28,88	65,77	+	+	+	PA	27,39	66,18	+	28,51	65,58	+	+	+	+	+	+	+	PA	PA	12	b
6424	Croquettes chat (foie)	Pellets for cat (liver)	+p	+p	+M	+p	+	0	0	-	-	-	ND	0	0	-	0	0	-	-	-	-	-	-	-	ND	ND	12	b
8514	Aliment pour oiseau	Bird food	-	-	-	-	-	0	0	-	-	-	NA															12	b
8515	Aliment pour rongeur	Rodent food	-	-	-	-	-	0	0	-	-	-	NA															12	b
8516	Aliment pour lapin	Rabbit food	st	st	st	st	-	0/0/0	0/0/0	-/-	+	-	NA	0	0	-	0	0	-	+	-	-	-	-	NA	NA	12	b	
8517	Aliment pour cochon d'inde	Guinea pig food	-	-	-	-	-	0	0	-	-	-	NA															12	b
8518	Croquettes pour chien	Pellets for dog	-	st	st	st	-	0	0	-	-	-	NA															12	b
8519	Croquettes pour chien	Pellets for dog	-	-	st	-	-	24,61	66,09	+	+	+	PD	22,91	66,08	+	23,24	65,81	+	+	+	+	+	+	+	PD	PD	12	b
8520	Croquettes pour chien (volaille/légumes/céréales)	Pellets for dog (poultry, cereals, vegetables)	+p	+p	+p	+p	+	0	0	-	-	-	ND	0	0	-	0	0	-	-	-	-	-	-	-	ND	ND	12	b
8521	Croquettes pour chien	Pellets for dog	st	st	st	st	-	24,29	66,65	+	+	+	PD	23,23	66,43	+	23,07	66,14	+	+	+	+	+	+	+	PD	PD	12	b
8522	Croquettes pour chat (bœuf/poulet/légumes)	Pellets for cat (beef, poultry, vegetables)	+p	+p	+p	+p	+	0	0	-	-	-	ND	0	0	-	0	0	-	-	-	-	-	-	-	ND	ND	12	b
8523	Croquettes pour chat (thon/saumon/légumes/céréales)	Pellets for cat (tuna, salmon, cereals, vegetables)	+p	+p	+p	+p	+	0	0	-	-	-	ND	0	0	-	0	0	-	-	-	-	-	-	-	ND	ND	12	b
8524	Croquettes pour chat (bœuf/poulet/légumes)	Pellets for cat (beef, poultry, vegetables)	st	st	-	st	-	0	0	-	-	-	NA															12	b
9120	Croquettes pour chien (saumon/avoine)	Pellets for dog (salmon/oat)	+p	+p	+p	+p	+	22,13	66,67	+	+	+	PA	21,71	66,28	+	20,74	66,02	+	+	+	+	+	+	+	PA	PA	12	b
9121	Croquettes pour chat (saumon/orge)	Pellets for cat (salmon/barley)	-	-	-	-	-	21,52	66,19	+	+	+	PD	21,76	66,08	+	21,53	65,88	+	+	+	+	+	+	+	PD	PD	12	b
9122	Croquettes pour chien (poulet/orge)	Pellets for dog (poultry/barley)	+p	+p	+p	+p	+	0	0	-	-	-	ND	0	0	-	0	0	-	-	-	-	-	-	-	ND	ND	12	b



PET FOOD (375 g test portion) – Specific protocol ⑥ - Extension No 4

Sample N°	Product (French name)	Product	Reference method: ISO 6579-1*					Alternative method: GENE-UP Salmonella															Category	Type				
			RVS broth		MKTTn broth		ISO 6579-1 Result	BPW 1/6 for 20h at 37°C					BPW 1/6 for 20h at 41,5°C + 72h at 5°C ± 3°C															
			XLD	ASAP	XLD	ASAP		PCR			Confirmation final result	Final result 18h	Agreement 18h	PCR-BPW 72h			PCR-Lysate 72h			Confirmation final result	Final result 72h BPW	Final result 72h Lysate			Agreement 72h BPW	Agreement 72h Lysate		
								Cp	Tm	Result				Cp	Tm	Result	Cp	Tm	Result									
9123	Croquettes pour chien (poulet/riz)	Pellets for dog (chicken/rice)	-	-	-	-	-	0	0	-	-	-	NA													12	b	
9124	Croquettes pour chien (poulet/légumes/riz)	Pellets for dog (chicken/vegetables/rice)	-	-	-	-	-	0	0	-	-	-	NA													12	b	
9125	Croquettes pour chien (bœuf)	Pellets for dog (beef)	st	st	-	-	-	0	0	-	-	-	NA													12	b	
9523	Aliment pour canari	Bird food	+M	+M	+M	+M	+	33,3	66,01	+	+	+	PA	32,52	65,92	+	32,84	66,16	+	+	+	+	+	+	PA	PA	12	b
9524	Aliment pour lapin	Rabbit food	+M	+p	+m	+1/2	+	36,6	56,78	+	+	+	PA	0/37,16/36,58	0/55,51/56,61	-/+	36,6	56,23	+	+	-	+	+	ND	PA	12	b	
9525	Aliment pour rongeur	Rodent food	-	-	-	-	-	0	0	-	-	-	NA													12	b	
9595	Croquettes pour chien (bœuf)	Pellets for dog (beef)	st	st	st	st	-	0	0	-	-	-	NA													12	b	
9641	Croquettes pour chien (bœuf)	Pellets for dog (beef)	st	st	st	st	-	0	0	-	-	-	NA													12	b	
9642	Croquettes pour chien (bœuf)	Pellets for dog (beef)	st	st	st	st	-	0	0	-	-	-	NA													12	b	
9643	Croquettes pour chat (poulet)	Pellets for cat (chicken)	st	st	st	st	-	0	0	-	-	-	NA													12	b	

PET FOOD (375 g test portion) -ISO protocol - - Extension No 4

Sample N°	Product (french name)	Product	Reference method: ISO 6579-1*					Alternative method: GENE-UP Salmonella																	Category	Type
			RVS broth		MKTTn broth		ISO 6579-1 Result	BPW 1/10 for 20h at 37°C					BPW 1/10 for 20h at 37°C +72h at 5°C ± 3°C													
			XLD	ASAP	XLD	ASAP		PCR			Confirmation final result	Final result 18h	Agreement 18h	PCR-BPW 72h			PCR-Lysate 72h			Confirmation final result	Final result 72h BPW	Final result 72h Lysate	Agreement 72h BPW	Agreement 72h Lysate		
								Cp	Tm	Result				Cp	Tm	Result	Cp	Tm	Result							
6458	Saucisson pour chien	Sausage for dog	+M	+M	+M	+M	+	26,44	66,04	+	+	+	PA	26,91	66,02	+	26,31	66	+	+	+	PA	PA	12	a	
6459	Saucisson pour chien	Sausage for dog	+p	+p	+p	+p	+	22,6	66,63	+	+	+	PA	23,18	66,65	+	22,21	66,59	+	+	+	PA	PA	12	a	
6460	Pâté pour chien (poulet/carottes)	Pâté for dog (poultry/carrots)	+p	+p	+p	+p	+	22,16	66,52	+	+	+	PA	22,09	66,05	+	21,84	65,93	+	+	+	PA	PA	12	a	
6461	Pâté pour chien (poisson/carottes)	Pâté for dog (fish/carrots)	+p	+p	+p	+p	+	23,8	66,61	+	+	+	PA	24,14	66,32	+	24,02	66,16	+	+	+	PA	PA	12	a	
6462	Pâté pour chat (bœuf)	Pâté for cat (beef)	+p	+p	+p	+p	+	22,9	66,69	+	+	+	PA	22,76	66,32	+	23,04	66,2	+	+	+	PA	PA	12	a	
6463	Pâté pour chat (saumon)	Pâté for cat (salmon)	+p	+p	+p	+p	+	22,83	66,43	+	+	+	PA	22,88	66,13	+	22,73	66,16	+	+	+	PA	PA	12	a	
8575	Saucisse pour chien	Sausage for dog	+p	+p	+p	+p	+	22,2	56,26	+	+	+	PA	22,16	56,61	+	21,86	56,44	+	+	+	PA	PA	12	a	
8576	Saucisse pour chien	Sausage for dog	+p	+p	+p	+p	+	21,25	66,8	+	+	+	PA	20,13	66,87	+	20,06	66,72	+	+	+	PA	PA	12	a	
8577	Saucisse pour chien	Sausage for dog	+p	+p	+p	+p	+	20,54	66,26	+	+	+	PA	20,13	66,85	+	19,87	66,13	+	+	+	PA	PA	12	a	
8578	Terrine pour chien (bœuf)	Pâté for dog (beef)	+p	+p	+p	+p	+	22,81	56,61	+	+	+	PA	22,51	56,67	+	22,33	56,41	+	+	+	PA	PA	12	a	
8579	Terrine pour chat (bœuf)	Pâté for cat (beef)	+p	+p	+p	+p	+	22,04	66,54	+	+	+	PA	21,92	66,24	+	21,78	66,19	+	+	+	PA	PA	12	a	
8580	Terrine pour chat (poulet)	Pâté for cat (chiken)	+p	+p	+p	+p	+	21,09	66,04	+	+	+	PA	20,95	66,14	+	20,62	66,11	+	+	+	PA	PA	12	a	
8581	Terrine pour chat (saumon)	Pâté for cat (salmon)	+p	+p	+p	+p	+	22,93	56,72	+	+	+	PA	22,52	56,69	+	22,26	56,57	+	+	+	PA	PA	12	a	
8582	Terrine pour chien (canard/légumes)	Pâté for dog (duck/vegetables)	+p	+p	+p	+p	+	21,01	66,29	+	+	+	PA	20,96	66,66	+	21,45	66,26	+	+	+	PA	PA	12	a	
8583	Terrine pour chien (bœuf/carottes)	Pâté for dog (beef/carrots)	+p	+p	+p	+p	+	23,1	66,07	+	+	+	PA	22,83	66,03	+	22,77	65,92	+	+	+	PA	PA	12	a	
8584	Terrine pour chien (volaille)	Pâté for dog (poultry)	+p	+p	+p	+p	+	21,54	56,86	+	+	+	PA	20,97	56,97	+	20,84	56,76	+	+	+	PA	PA	12	a	
9526	Terrine pour chat (bœuf)	Pâté for cat (beef)	st	st	st	st	-	0	0	-	-	-	NA											12	a	
9527	Terrine pour chat (Saumon)	Pâté for cat (salmon)	st	st	st	st	-	0	0	-	-	-	NA											12	a	
9528	Terrine pour chat (poulet)	Pâté for cat (chiken)	st	st	st	st	-	0	0	-	-	-	NA											12	a	
9529	Saucisson pour chien	Sausage for dog	st	st	st	st	-	0	0	-	-	-	NA											12	a	
9573	Terrine pour chien (bœuf)	Pâté for dog (beef)	st	st	st	st	-	0	0	-	-	-	NA											12	a	
9574	Terrine pour chien (bœuf/légumes)	Pâté for dog (beef/vegetables)	st	st	st	st	-	0	0	-	-	-	NA											12	a	
9575	Terrine pour chien (agneau/légumes)	Pâté for dog (lamb/vegetables)	st	st	st	st	-	0	0	-	-	-	NA											12	a	
9576	Terrine pour chien (volaille/foie/légumes)	Pâté for dog poultry/liver/vegetables)	st	st	st	st	-	0	0	-	-	-	NA											12	a	
9577	Terrine pour chien (volaille)	Pâté for dog (poultry)	st	st	st	st	-	0	0	-	-	-	NA											12	a	
9578	Terrine pour chat (saumon/truite)	Pâté for cat (salmon/trout)	st	st	st	st	-	0	0	-	-	-	NA											12	a	
9579	Terrine pour chat (lapin/foie/légumes)	Pâté for cat (rabbit/liver/vegetables)	st	st	st	st	-	0	0	-	-	-	NA											12	a	
9580	Terrine pour chat (volaille/rognons)	Pâté for cat (poultry/kidney)	st	st	st	st	-	0	0	-	-	-	NA											12	a	

\* Analyses performed according to the COFRAC accreditation

PET FOOD (375 g test portion) -ISO protocol - - Extension No 4

Sample N°	Product (french name)	Product	Reference method: ISO 6579-1*					Alternative method: GENE-UP Salmonella																	Category	Type			
			RVS broth		MKTTn broth		ISO 6579-1 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	Final result 18h	Agreement 18h	PCR-BPW 72h			PCR-Lysate 72h			Confirmation final result	Final result 72h BPW	Final result 72h Lysate	Agreement 72h BPW	Agreement 72h Lysate					
			Cp	Tm	Result	Cp	Tm	Result	Cp	Tm				Result															
9581	Saucisson pour chien	Sausage for dog	st	st	st	st	-	0	0	-	-	-	NA														12	a	
9582	Saucisson pour chien	Sausage for dog	st	st	st	st	-	0	0	-	-	-	NA															12	a
9583	Saucisson pour chien	Sausage for dog	st	st	st	st	-	0	0	-	-	-	NA															12	a
6419	Croquettes chien (bœuf/légumes)	Pellets for dog (beef/vegetables)	+p	+p	+M	+M	+	23,08	66,45	+	+	+	PA	24,11	66,76	+	23,53	66,57	+	+	+	+	PA	PA			12	b	
6420	Croquettes chien (bœuf)	Pellets for dog (beef)	-	-	-	-	-	0	0	-	-	-	NA															12	b
6421	Croquettes chien (bœuf)	Pellets for dog (beef)	+p	+p	+M	+M	+	30,3	66,09	+	+	+	PA	29,99	65,94	+	30,25	65,91	+	+	+	+	PA	PA			12	b	
6422	Croquettes chat (lapin/volaille/légumes/céréales)	Pellets for cat (rabbit/poultry/vegetables/cereals)	+p	+p	+M	+M	+	28,13	65,97	+	+	+	PA	27,87	66,56	+	28,48	66,59	+	+	+	+	PA	PA			12	b	
6423	Croquettes chat (saumon/thon/légumes)	Pellets for cat (salmon/tuna/vegetables)	+p	+p	+M	+M	+	24,87	66,03	+	+	+	PA	24,57	66,35	+	24,83	66,45	+	+	+	+	PA	PA			12	b	
6424	Croquettes chat (foie)	Pellets for cat (liver)	+p	+p	+M	+p	+	24,95	66,06	+	+	+	PA	25,99	66,39	+	25,28	66,48	+	+	+	+	PA	PA			12	b	
8514	Aliment pour oiseau	Bird food	-	-	-	-	-	0	0	-	-	-	NA															12	b
8515	Aliment pour rongeur	Rodent food	-	-	-	-	-	0	0	-	-	-	NA															12	b
8516	Aliment pour lapin	Rabbit food	st	st	st	st	-	0	0	-	-	-	NA	0	0	-	0	0	-	-	-	-	NA	NA			12	b	
8517	Aliment pour cochon d'inde	Guinea pig food	-	-	-	-	-	0	0	-	-	-	NA															12	b
8518	Croquettes pour chien	Pellets for dog	-	st	st	st	-	0	0	-	-	-	NA															12	b
8519	Croquettes pour chien	Pellets for dog	-	-	st	-	-	0	0	-	-	-	NA	0	0	-	0	0	-	-	-	-	NA	NA			12	b	
8520	Croquettes pour chien (volaille/légumes/céréales)	Pellets for dog (poultry, cereals, vegetables)	+p	+p	+p	+p	+	24,61	65,97	+	+	+	PA	24,17	65,8	+	24,12	65,85	+	+	+	+	PA	PA			12	b	
8521	Croquettes pour chien	Pellets for dog	st	st	st	st	-	0	0	-	-	-	NA	0	0	-	0	0	-	-	-	-	NA	NA			12	b	
8522	Croquettes pour chat (bœuf/poulet/légumes)	Pellets for cat (beef, poultry, vegetables)	+p	+p	+p	+p	+	22,94	66,26	+	+	+	PA	22,72	66,29	+	22,64	65,88	+	+	+	+	PA	PA			12	b	
8523	Croquettes pour chat (thon/saumon/légumes/céréales)	Pellets for cat (tuna, salmon, cereals, vegetables)	+p	+p	+p	+p	+	26,11	66,32	+	+	+	PA	25,85	65,8	+	25,98	65,92	+	+	+	+	PA	PA			12	b	
8524	Croquettes pour chat (bœuf/poulet/légumes)	Pellets for cat (beef, poultry, vegetables)	st	st	-	st	-	0	0	-	-	-	NA															12	b
9118	Croquettes pour chien (poulet/riz/céréales)	Pellets for dog (poultry/rice/cereals)	+p	+p	+p	+p	+	23,57	66,49	+	+	+	PA	23,54	66,05	+	22,93	66,3	+	+	+	+	PA	PA			12	b	
9119	Croquettes pour chaton (volaille/légumes/lait)	Pellets for cat (poultry/vegetables/milk)	st	st	-	-	-	0	0	-	-	-	NA															12	b
9120	Croquettes pour chien (saumon/avoine)	Pellets for dog (salmon/oat)	+p	+p	+p	+p	+	29,07	65,85	+	+	+	PA	29,59	65,6	+	29,64	65,63	+	+	+	+	PA	PA			12	b	
9121	Croquettes pour chat (saumon/orge)	Pellets for cat (salmon/barley)	-	-	-	-	-	0	0	-	-	-	NA															12	b
9122	Croquettes pour chien (poulet/orge)	Pellets for dog (poultry/barley)	+p	+p	+p	+p	+	22,33	66,26	+	+	+	PA	22,47	66,39	+	22,06	65,68	+	+	+	+	PA	PA			12	b	
9123	Croquettes pour chien (poulet/riz)	Pellets for dog (chicken/rice)	-	-	-	-	-	0	0	-	-	-	NA															12	b
9124	Croquettes pour chien (poulet/légumes/riz)	Pellets for dog (chicken/vegetables/rice)	-	-	-	-	-	0	0	-	-	-	NA															12	b
9125	Croquettes pour chien (bœuf)	Pellets for dog (beef)	st	st	-	-	-	0	0	-	-	-	NA															12	b
9521	Aliment pour lapin	Rabbit food	+p	+p	+M	+p	+	36,38	66	+	+	+	PA	35,45	66,04	+	0	0	-	+	+	-	PA	ND			12	b	
9522	Aliment pour cochon d'inde	Guinea pig food	+p	+p	+M	+M	+	0/0/35,58	0/0/66,15	-/-/+	-	-	ND	0/0/0	0/0/0	-/-/-	0/0/0	0/0/0	-/-/-	+	-	-	ND	ND			12	b	

PET FOOD (375 g test portion) -ISO protocol - - Extension No 4

Sample N°	Product (french name)	Product	Reference method: ISO 6579-1*					Alternative method: GENE-UP Salmonella																	Category	Type
			RVS broth		MKTTn broth		ISO 6579-1 Result	BPW 1/10 for 20h at 37°C					BPW 1/10 for 20h at 37°C +72h at 5°C ± 3°C													
			XLD	ASAP	XLD	ASAP		PCR			Confirmation final result	Final result 18h	Agreement 18h	PCR-BPW 72h			PCR-Lysate 72h			Confirmation final result	Final result 72h BPW	Final result 72h Lysate	Agreement 72h BPW	Agreement 72h Lysate		
								Cp	Tm	Result				Cp	Tm	Result	Cp	Tm	Result							
9523	Aliment pour canari	Bird food	+M	+M	+M	+M	+	32,72	66,19	+	+	+	PA	32,23	65,78	+	33	66,21	+	+	+	PA	PA	12	b	
9524	Aliment pour lapin	Rabbit food	+M	+p	+m	+1/2	+	0/0/0	0/0/0	-/-	+	-	ND	0/0/0	0/0/0	-/-	0/0/0	0/0/0	-/-	+	-	-	ND	ND	12	b
9525	Aliment pour rongeur	Rodent food	-	-	-	-	-	0	0	-	-	-	NA											12	b	
9595	Croquettes pour chien (bœuf)	Pellets for dog (beef)	st	st	st	st	-	0	0	-	-	-	NA											12	b	
9622	Croquettes pour chat (thon/saumon/légumes/céréales)	Pellets for cat (tuna, salmon, cereals, vegetables)	+p	+p	+p	+p	+	21,6	66,73	+	+	+	PA	21,68	66,49	+	21,14	66,07	+	+	+	PA	PA	12	b	
9623	Croquettes pour chien (bœuf)	Pellets for dog (beef)	+p	+p	+p	+p	+	21,78	56,47	+	+	+	PA	21,83	56,34	+	21,5	56,16	+	+	+	PA	PA	12	b	

MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITHOUT PROBIOTICS INCLUDING INGREDIENTS (25 g test portion)- General protocol -Extension No 5																												
Sample N°	Product (french name)	Product	Reference method : ISO 6579-1*					Alternative method : GENE-UP Salmonella																			Category	Type
			RVS broth		MKTTn broth		ISO 6579-1 Result	BPW for 18 h at 37°C						Storage for 72 h at 5°C ± 3°C														
			Cp	TM	Result	Confirmation final result		ISO 6579 (Milk powders) on negative samples	Final Result 18 h	Agreement 18 h	PCR-BPW 72h			PCR-Lysate 72h			Confirmation Final result	Final result 72 h BPW	Final Result 72 h Lysate	Agreement 72 h BPW	Agreement 72 h Lysate							
											Cp	Tm	Result	Cp	Tm	Result												
XLD	ASAP	XLD	ASAP																									
4643	Poudre de lait écrémé	Skim milk powder	+p	+p	+p	+p	+	19,82	66,11	+	+	/	+	PA	22,02	66,12	+	21.48	66.12	+	+	+	+	PA	PA	13	a	
4644	Poudre de lait écrémé	Skim milk powder	+p	+p	+p	+p	+	33,79	65,6	+	+	/	+	PA	33,81	66,03	+	33.66	65.64	+	+	+	+	PA	PA	13	a	
4645	Poudre de lait écrémé	Skim milk powder	+p	+p	+p	+p	+	21,99	65,8	+	+	/	+	PA	22,75	66,17	+	23.79	66	+	+	+	+	PA	PA	13	a	
4646	Poudre de lait écrémé	Skim milk powder	+p	+p	+p	+p	+	22,72	66,04	+	+	/	+	PA	22,58	65,92	+	23.5	66.03	+	+	+	+	PA	PA	13	a	
4647	Poudre de lait entier	Whole milk powder	+p	+p	+p	+p	+	22,5	56,25	+	+	/	+	PA	22,63	56,31	+	23	56.24	+	+	+	+	PA	PA	13	a	
4648	Poudre de lait écrémé	Skim milk powder	+p	+p	+p	+p	+	25,73	56,08	+	+	/	+	PA	23,91	56,17	+	26.24	56.27	+	+	+	+	PA	PA	13	a	
4673	Poudre de lait infantile 1er âge	Infant formula without probiotics	+p	+p	+p	+p	+	20	66,04	+	-	/	+	PA	20,52	66,5	+	24,12	64,96	+	+	-	-	PA	ND	13	a	
4674	Poudre de lait infantile 2ème âge	Infant formula without probiotics	st	st	st	st	-	0	0	-	+	-	-	NA												13	a	
4675	Poudre de lait infantile bio 1er âge	Infant formula without probiotics	+p	+p	+p	+p	+	22,17	66,1	+	+	/	+	PA	23,53	66,46	+	24.12	66.36	+	+	+	+	PA	PA	13	a	
4676	Poudre de lait infantile	Infant formula without probiotics	+p	+p	+p	+p	+	20,21	65,9	+	+	/	+	PA	20,79	66,29	+	23.17	66.6	+	+	+	+	PA	PA	13	a	
4677	Poudre de lait infantile relais	Infant formula without probiotics	+p	+p	+p	+p	+	30,02	56,21	+	+	/	+	PA	29,98 31,27/ 31,08 <small>(new extraction)</small>	56,46 55,84/5 6,25 <small>(new extraction)</small>	+	31.28	56.67	+	- (MSRV 5 x -)	-	-	PPND	PPND	13	a	
4678	Poudre de lait infantile	Infant formula without probiotics	st	st	st	st	-	0	0	-	+	-	-	NA												13	a	
6098	Poudre de lait entier	Whole milk powder	st	st	st	st	-	0	0	-	+	-	-	NA												13	a	
6099	Poudre de lait écrémé	Skim milk powder	st	st	st	st	-	0	0	-	+	-	-	NA												13	a	
6100	Poudre de lait	Milk powder	st	st	st	st	-	0	0	-	+	-	-	NA												13	a	
6101	Poudre de lait écrémé	Skim milk powder	st	st	st	st	-	0	0	-	+	-	-	NA												13	a	
6102	Poudre de lait écrémé	Skim milk powder	st	st	st	st	-	0	0	-	+	-	-	NA												13	a	
6114	Lait infantile sans probiotiques	Infant formula without probiotics	st	st	st	st	-	0	0	-	+	-	-	NA												13	a	
6115	Lait infantile sans probiotiques	Infant formula without probiotics	st	st	st	st	-	0	0	-	+	-	-	NA												13	a	
6116	Lait infantile sans probiotiques	Infant formula without probiotics	st	st	st	st	-	0	0	-	+	-	-	NA												13	a	
4649	Céréales au miel	Infant cereals without probiotics	st	st	st	st	-	0	0	-	+	/	-	NA												13	b	
4650	Céréales biscuit	Infant cereals without probiotics	+p	+p	+p	+p	+	22,97	66,17	+	-	/	+	PA	23,07	66,1	+	23.28	65.9	+	+	+	+	PA	PA	13	b	
4651	Céréales choco biscuitées	Infant cereals without probiotics	+p	+p	+p	+p	+	20,61	66,11	+	+	/	+	PA	21,16	66,31	+	20.78	66.16	+	+	+	+	PA	PA	13	b	

\* Analyses performed according to the COFRAC accreditation

MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITHOUT PROBIOTICS INCLUDING INGREDIENTS (25 g test portion)- General protocol -Extension No 5																														
Sample N°	Product (french name)	Product	Reference method : ISO 6579-1*					Alternative method : GENE-UP <i>Salmonella</i>																		Category	Type			
			RVS broth		MKTTn broth		ISO 6579-1 Result	BPW for 18 h at 37°C							Storage for 72 h at 5°C ± 3°C															
								PCR			Confir- mation final result	ISO 6579 (Milk powders) on negative samples	Final Result 18 h	Agree- ment 18 h	PCR-BPW 72h			PCR-Lysate 72h			Confir- mation Final result	Final result 72 h BPW	Final Result 72 h Lysate	Agree- ment 72 h BPW	Agree- ment 72 h Lysate					
			Cp	TM	Result	Cp	Tm	Result	Cp	Tm					Result															
XLD	ASAP	XLD	ASAP																											
4652	Céréales vanille	Infant cereals without probiotics	+p	+p	+p	+p	+	20,63	65,71	+	-	/	+	PA	21,8	66,31	+	20,73	66,36	+	+	+	+	+	+	PA	PA	13	b	
4653	3 céréales (riz, blé, avoine)	Infant cereals without probiotics	+p	+p	+p	+p	+	25,82	65,76	+	+	/	+	PA	26,68	66,22	+	25,72	66,09	+	+	+	+	+	+	PA	PA	13	b	
4654	Céréales vanille, quinoa	Infant cereals without probiotics	+p	+p	+p	+p	+	22,83	65,79	+	+	/	+	PA	23,69	66,15	+	22,95	66,18	+	+	+	+	+	+	PA	PA	13	b	
4655	Céréales blé, avoine	Infant cereals without probiotics	+p	+p	+p	+p	+	22,3	65,77	+	+	/	+	PA	22,28	66,04	+	21,27	66,11	+	+	+	+	+	+	PA	PA	13	b	
4656	Avoine, blé, riz	Infant cereals without probiotics	+p	+p	+p	+p	+	22,94	65,67	+	+	/	+	PA	24,08	66,17	+	22,42	65,99	+	+	+	+	+	+	PA	PA	13	b	
4657	Céréales vanille	Infant cereals without probiotics	+p	+p	+p	+p	+	20,08	65,61	+	+	/	+	PA	21,25	66,08	+	20,29	66,14	+	+	+	+	+	+	PA	PA	13	b	
4658	Céréales saveur biscuit	Infant cereals without probiotics	+p	+p	+p	+p	+	23,84	65,97	+	+	/	+	PA	23,57	66,12	+	23,5	65,9	+	+	+	+	+	+	PA	PA	13	b	
4659	Céréales vanille	Infant cereals without probiotics	+p	+p	+p	+p	+	20,85	65,67	+	+	/	+	PA	23,3	66,46	+	22,52	66,33	+	+	+	+	+	+	PA	PA	13	b	
4660	Multicéréales	Infant cereals without probiotics	+p	+p	+p	+p	+	24,87	65,97	+	-	/	+	PA	25,94	66,09	+	21,7	65,57	+	+	+	+	+	+	PA	PA	13	b	
6103	Céréales infantiles sans probiotiques	Infant cereals without probiotics	st	st	st	st	+	0	0	-	+	/	-	NA														13	b	
6104	Céréales infantiles sans probiotiques	Infant cereals without probiotics	-	-	-	-	-	0	0	-	+	/	-	NA														13	b	
6105	Céréales infantiles sans probiotiques	Infant cereals without probiotics	st	st	st	st	-	0	0	-	+	/	-	NA														13	b	
6117	Céréales infantiles sans probiotiques	Infant cereals without probiotics	st	st	st	st	-	0	0	-	-	/	-	NA														13	b	
6118	Céréales infantiles sans probiotiques	Infant cereals without probiotics	st	st	st	st	-	0	0	-	-	/	-	NA														13	b	
6119	Céréales infantiles sans probiotiques	Infant cereals without probiotics	st	st	st	st	-	0	0	-	-	/	-	NA														13	b	
6120	Céréales infantiles sans probiotiques	Infant cereals without probiotics	st	st	-	-	-	0	0	-	-	/	-	NA														13	b	
6121	Céréales infantiles sans probiotiques	Infant cereals without probiotics	st	st	st	st	-	0	0	-	-	/	-	NA														13	b	
6122	Céréales infantiles sans probiotiques	Infant cereals without probiotics	-	-	st	st	-	0	0	-	-	/	-	NA														13	b	
4661	Maltodextrine	Maltodextrin	+p	+p	+p	+p	-	22,04	66,18	+	-	/	+	PA	23,42	66,23	+	22,92	66,17	+	+	+	+	+	+	PA	PA	13	c	
4662	Maltodextrine	Maltodextrin	+p	+p	+p	+p	-	22,24	66,07	+	-	/	+	PA	23,58	66,19	+	21,65	66,08	+	+	+	+	+	+	+	PA	PA	13	c
4663	Maltodextrine	Maltodextrin	+p	+p	+p	+p	-	21,74	66,1	+	-	/	+	PA	22,16	66,17	+	21,93	66,16	+	+	+	+	+	+	+	PA	PA	13	c
4664	Amidon de blé	Starch	st	st	st	st	-	0	0	-	-	/	-	NA														13	c	
4665	Amidon	Starch	+p	+p	+p	+p	+	30,23	65,87	+	-	/	+	PA	26,07	66,15	+	22,43	66,24	+	+	+	+	+	+	+	PA	PA	13	c
4666	Amidon	Starch	st	st	st	st	-	0	0	-	-	/	-	NA														13	c	
4667	Caséinate de sodium	Caseinate	+p	+p	+p	+p	+	21,91	65,82	+	-	/	+	PA	22,17	65,69	+	21,17	64,93	+	+	+	+	+	+	+	PA	PA	13	c
4668	Caséinate de sodium	Caseinate	+p	+p	+p	+p	+	22,91	65,63	+	-	/	+	PA	22,56	65,49	+	22,98	65,61	+	+	+	+	+	+	+	PA	PA	13	c
4669	Lactose	Lactose	+p	+p	+p	+p	+	20,9	66,06	+	-	/	+	PA	21,21	66,45	+	21,8	66,28	+	+	+	+	+	+	+	PA	PA	13	c

MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITHOUT PROBIOTICS INCLUDING INGREDIENTS (25 g test portion)- General protocol -Extension No 5																												
Sample N°	Product (french name)	Product	Reference method : ISO 6579-1*					Alternative method : GENE-UP <i>Salmonella</i>																			Category	Type
			RVS broth		MKTTn broth		ISO 6579-1 Result	BPW for 18 h at 37°C						Storage for 72 h at 5°C ± 3°C														
								PCR			Confir- mation final result	ISO 6579 (Milk powders) on negative samples	Final Result 18 h	Agree- ment 18 h	PCR-BPW 72h			PCR-Lysate 72h			Confir- mation Final result	Final result 72 h BPW	Final Result 72 h Lysate	Agree- ment 72 h BPW	Agree- ment 72 h Lysate			
			Cp	TM	Result	Cp	Tm	Result	Cp	Tm					Result													
XLD	ASAP	XLD	ASAP																									
4670	Lactose	Lactose	+p	+p	+p	+p	+	21,86	65,7	+	-	/	+	PA	21,64	65,86	+	21,92	66,04	+	+	+	+	PA	PA	13	c	
4671	Lactosérum	Whey	+p	+p	+p	+p	+	22,07	65,89	+	-	/	+	PA	21,87	66,39	+	29,18	66,17	+	+	+	+	PA	PA	13	c	
4672	Lactosérum	Whey	+p	+p	+p	+p	+	28,66	66	+	-	/	+	PA	28,27	66,15	+	20,71	66,35	+	+	+	+	PA	PA	13	c	
6106	Maltodextrine	Maltodextrin	st	st	st	st	-	0	0	-	-	-	-	NA												13	c	
6107	Amidon	Starch	st	st	st	st	-	0	0	-	-	/	-	NA												13	c	
6108	Lactose	Lactose	st	st	st	st	-	0	0	-	-	-	-	NA												13	c	
6109	Amidon	Starch	st	st	st	st	-	0	0	-	-	/	-	NA												13	c	
6110	Amidon	Starch	st	st	st	st	-	0	0	-	-	/	-	NA												13	c	
6111	Caséinate	Caseinate	st	st	st	st	-	0	0	-	-	-	-	NA												13	c	
6112	Lactoserum	Whey	st	st	st	st	-	0	0	-	-	-	-	NA												13	c	
6113	Lactoserum	Whey	st	st	st	st	-	0	0	-	-	-	-	NA												13	c	

INFANT FORMULA AND INFANT CEREALS WITH PROBIOTICS (25g test portion)- Specific protocol ⑦ - Extension No 5

Sample N°	Product (french name)	Product	Reference method : ISO 6579-1 *					Alternative method : GENE-UP Salmonella																	Category	Type	
			RVS broth		MKTTn broth		ISO 6579-1 Result	BPW + Novobiocin (10mg/L) for 18 h at 37°C					Storage for 72 h at 5°C ± 3°C														
			XLD	ASAP	XLD	ASAP		PCR			Confirmation final result	ISO 6579 (Milk powders) on negative samples	Final result 18 h	Agreement 18 h	PCR-BPW 72 h			PCR-Lysate 72 h			Confirmation final result	Final result 72 h BPW	Final result 72 h Lysate	Agreement 72 h BPW			Agreement 72 h Lysate
								Cp	Tm	Result					Cp	Tm	Result	Cp	Tm	Result							
4679	Lait infantile avec probiotiques (2,7.10 <sup>5</sup> UFC/g)	Infant formula with probiotics (2,7.10 <sup>5</sup> CFU/g)	+p	+p	+p	+p	+	20.79	66.57	+	+	/	+	PA	19,98	66,7	+	19,55	66,26	+	+	+	+	PA	PA	14	a
4680	Lait infantile avec probiotiques (1,6.10 <sup>5</sup> UFC/g)	Infant formula with probiotics (1,6.10 <sup>5</sup> CFU/g)	+p	+p	+p	+p	+	20.93	66.3	+	+	/	+	PA	20,49	66,4	+	19,71	66,14	+	+	+	+	PA	PA	14	a
4681	Lait infantile avec probiotiques (1,8.10 <sup>4</sup> UFC/g)	Infant formula with probiotics (1,8.10 <sup>4</sup> CFU/g)	st	st	+p	+p	+	20.89	56.76	+	+	/	+	PA	20,46	56,86	+	19,98	56,66	+	+	+	+	PA	PA	14	a
4682	Lait infantile avec probiotiques (6,7.10 <sup>3</sup> UFC/g)	Infant formula with probiotics (6,7.10 <sup>3</sup> CFU/g)	+p	+p	+p	+p	+	21.56	66.59	+	+	/	+	PA	20,49	66,5	+	20,22	66,08	+	+	+	+	PA	PA	14	a
4683	Lait infantile avec probiotiques (1,9.10 <sup>4</sup> UFC/g)	Infant formula with probiotics (1,9.10 <sup>4</sup> CFU/g)	+p	+p	+p	+p	+	21.07	66.48	+	+	/	+	PA	20,23	66,33	+	20,42	66,13	+	+	+	+	PA	PA	14	a
4684	Lait infantile avec probiotiques (4,6.10 <sup>3</sup> UFC/g)	Infant formula with probiotics (4,6.10 <sup>3</sup> CFU/g)	+p	+p	+p	+p	+	20.56	66.52	+	+	/	+	PA	19,42	66,3	+	19,42	66,26	+	+	+	+	PA	PA	14	a
4685	Lait infantile avec probiotiques (2,1.10 <sup>4</sup> UFC/g)	Infant formula with probiotics (2,1.10 <sup>4</sup> CFU/g)	+p	+p	+p	+p	+	22.64	56.62	+	+	/	+	PA	21,01	54,06	+	22,1	56,42	+	+	+	+	PA	PA	14	a
4686	Lait infantile avec probiotiques (1,8.10 <sup>4</sup> UFC/g)	Infant formula with probiotics (1,8.10 <sup>4</sup> CFU/g)	+p	+p	+p	+p	+	21.86	56.82	+	+	/	+	PA	20,17	56,68	+	20,11	56,56	+	+	+	+	PA	PA	14	a
4687	Lait infantile avec probiotiques (6,8.10 <sup>5</sup> UFC/g)	Infant formula with probiotics (6,8.10 <sup>5</sup> CFU/g)	+p	+p	+p	+p	+	20.28	66.59	+	+	/	+	PA	19,5	66,17	+	19,71	66,28	+	+	+	+	PA	PA	14	a
4688	Lait infantile avec probiotiques (7,0.10 <sup>5</sup> UFC/g)	Infant formula with probiotics (7,0.10 <sup>5</sup> CFU/g)	+p	+p	+p	+p	+	19.58	66.19	+	+	/	+	PA	19,78	66,04	+	19,84	66,13	+	+	+	+	PA	PA	14	a
4689	Lait infantile avec probiotiques (3,2.10 <sup>6</sup> UFC/g)	Infant formula with probiotics (3,2.10 <sup>6</sup> CFU/g)	+p	+p	+p	+p	+	20.45	66.37	+	+	/	+	PA	20,11	66,2	+	19,75	66,25	+	+	+	+	PA	PA	14	a
4690	Lait infantile avec probiotiques (3,0.10 <sup>5</sup> UFC/g)	Infant formula with probiotics (3,0.10 <sup>5</sup> CFU/g)	st	st	+p	+p	+	19.98	66.23	+	+	/	+	PA	19,9	66,13	+	19,8	66,2	+	+	+	+	PA	PA	14	a
4691	Lait infantile avec probiotiques (3,0.10 <sup>4</sup> UFC/g)	Infant formula with probiotics (3,0.10 <sup>4</sup> CFU/g)	+p	+p	+p	+p	+	20.3	66.32	+	+	/	+	PA	19,63	66,12	+	19,63	66,17	+	+	+	+	PA	PA	14	a
4692	Lait infantile avec probiotiques (1,6.10 <sup>6</sup> UFC/g)	Infant formula with probiotics (1,6.10 <sup>6</sup> CFU/g)	+p	+p	+p	+p	+	20.21	66.28	+	+	/	+	PA	19,56	66,1	+	19,65	66,13	+	+	+	+	PA	PA	14	a
4693	Lait infantile avec probiotiques (6,0.10 <sup>4</sup> UFC/g)	Infant formula with probiotics (6,0.10 <sup>4</sup> CFU/g)	st	st	st	st	-	20.08	66.13	+	+	/	+	PD	19,96	66,01	+	19,3	66,01	+	+	+	+	PD	PD	14	a
4694	Lait infantile avec probiotiques (1,4.10 <sup>4</sup> UFC/g)	Infant formula with probiotics (1,4.10 <sup>4</sup> CFU/g)	+p	+p	+p	+p	+	20.3	66.47	+	+	/	+	PA	19,85	66,25	+	19,5	66,28	+	+	+	+	PA	PA	14	a

\* Analyses performed according to the COFRAC accreditation



INFANT FORMULA AND INFANT CEREALS WITH PROBIOTICS (25g test portion)- Specific protocol ⑦ - Extension No 5																												
Sample N°	Product (french name)	Product	Reference method : ISO 6579-1 *					Alternative method : GENE-UP Salmonella																		Category	Type	
			RVS broth		MKTTn broth		ISO 6579-1 Result	BPW + Novobiocin (10mg/L) for 18 h at 37°C							Storage for 72 h at 5°C ± 3°C													
			XLD	ASAP	XLD	ASAP		PCR			Confirmation final result	ISO 6579 (Milk powders) on negative samples	Final result 18 h	Agreement 18 h	PCR-BPW 72 h			PCR-Lysate 72 h			Confirmation final result	Final result 72 h BPW	Final result 72 h Lysate	Agreement 72 h BPW	Agreement 72 h Lysate			
								Cp	Tm	Result					Cp	Tm	Result	Cp	Tm	Result								
4695	Lait infantile avec probiotiques (2,5.10 <sup>5</sup> UFC/g)	Infant formula with probiotics (2,5.10 <sup>5</sup> CFU/g)	+p	+p	+p	+p	+	19.96	66.44	+	+	/	+	PA	20,07	66,17	+	19,83	66,35	+	+	+	+	PA	PA	14	a	
6123	Lait infantile avec probiotiques (9,2.10 <sup>6</sup> UFC/g)	Infant formula with probiotics (9,2.10 <sup>6</sup> UFC/g)	st	st	st	st	-	0	0	-	-	-	-	NA													14	a
6124	Lait infantile avec probiotiques (1,1.10 <sup>6</sup> UFC/g)	Infant formula with probiotics (1,1.10 <sup>6</sup> UFC/g)	st	st	st	st	-	0	0	-	-	-	-	NA													14	a
6125	Lait infantile avec probiotiques (9,7.10 <sup>5</sup> UFC/g)	Infant formula with probiotics (9,7.10 <sup>5</sup> UFC/g)	st	st	st	st	-	0	0	-	-	-	-	NA													14	a
6126	Lait infantile avec probiotiques (2,7.10 <sup>6</sup> UFC/g)	Infant formula with probiotics (2,7.10 <sup>6</sup> UFC/g)	st	st	st	st	-	0	0	-	-	-	-	NA													14	a
6127	Lait infantile avec probiotiques (4,5.10 <sup>6</sup> UFC/g)	Infant formula with probiotics (4,5.10 <sup>6</sup> UFC/g)	st	st	st	st	-	0	0	-	-	-	-	NA													14	a
6128	Lait infantile avec probiotiques (6,1.10 <sup>6</sup> UFC/g)	Infant formula with probiotics (6,1.10 <sup>6</sup> UFC/g)	st	st	st	st	-	0	0	-	-	-	-	NA													14	a
6129	Lait infantile avec probiotiques (<100 UFC/g)	Infant formula with probiotics (<100 UFC/g)	st	st	st	st	-	0	0	-	-	-	-	NA													14	a
6130	Lait infantile avec probiotiques (<100 UFC/g)	Infant formula with probiotics (<100 UFC/g)	st	st	st	st	-	0	0	-	-	-	-	NA													14	a
6131	Lait infantile avec probiotiques (9,7.10 <sup>6</sup> UFC/g)	Infant formula with probiotics (9,7.10 <sup>6</sup> UFC/g)	st	st	st	st	-	0	0	-	-	-	-	NA													14	a
6132	Lait infantile avec probiotiques (>100 UFC/g)	Infant formula with probiotics (>100 UFC/g)	st	st	st	st	-	0	0	-	-	-	-	NA													14	a
6133	Lait infantile avec probiotiques (8,5.10 <sup>5</sup> UFC/g)	Infant formula with probiotics (8,5.10 <sup>5</sup> UFC/g)	st	st	st	st	-	0	0	-	-	-	-	NA													14	a
6134	Lait infantile avec probiotiques (6,6.10 <sup>5</sup> UFC/g)	Infant formula with probiotics (6,6.10 <sup>5</sup> UFC/g)	st	st	st	st	-	0	0	-	-	-	-	NA													14	a
6135	Lait infantile avec probiotiques (8,4.10 <sup>5</sup> UFC/g)	Infant formula with probiotics (8,4.10 <sup>5</sup> UFC/g)	st	st	st	st	-	0	0	-	-	-	-	NA													14	a
6136	Lait infantile avec probiotiques (1,9.10 <sup>6</sup> UFC/g)	Infant formula with probiotics (1,9.10 <sup>6</sup> UFC/g)	st	st	st	st	-	0	0	-	-	-	-	NA													14	a
6137	Lait infantile avec probiotiques (1,3.10 <sup>6</sup> UFC/g)	Infant formula with probiotics (1,3.10 <sup>6</sup> UFC/g)	st	st	st	st	-	0	0	-	-	-	-	NA													14	a
4696	Céréales infantiles avec probiotiques (8,8.10 <sup>4</sup> UFC/g)	Infant cereals with probiotics (8,8.10 <sup>4</sup> CFU/g)	+p	+p	+p	+p	+	21.58	65.29	+	+	/	+	PA	22,51	65,81	+	21,89	65,69	+	+	+	+	PA	PA	14	b	



**INFANT FORMULA AND INFANT CEREALS WITH PROBIOTICS (25g test portion)- Specific protocol ⑦ - Extension No 5**

Sample N°	Product (french name)	Product	Reference method : ISO 6579-1 *				Alternative method : GENE-UP <i>Salmonella</i>																Category	Type									
			RVS broth		MKTTn broth		ISO 6579-1 Result	BPW + Novobiocin (10mg/L) for 18 h at 37°C							Storage for 72 h at 5°C ± 3°C																		
			XLD	ASAP	XLD	ASAP		PCR			Confirmation final result	ISO 6579 (Milk powders) on negative samples	Final result 18 h	Agreement 18 h	PCR-BPW 72 h			PCR-Lysate 72 h			Confirmation final result	Final result 72 h BPW			Final result 72 h Lysate	Agreement 72 h BPW	Agreement 72 h Lysate						
								Cp	Tm	Result					Cp	Tm	Result	Cp	Tm	Result													
			6138	Céréales infantiles avec probiotiques (7,0.10 <sup>5</sup> UFC/g)	Infant cereals with probiotics (7,0.10 <sup>5</sup> CFU/g)	st	st	st	st	-	0	0	-	-	/	-	NA																
6139	Céréales infantiles avec probiotiques (2,3.10 <sup>5</sup> UFC/g)	Infant cereals with probiotics (2,3.10 <sup>5</sup> CFU/g)	st	st	st	st	-	0	0	-	-	/	-	NA																		14	b
6140	Céréales infantiles avec probiotiques (1,6.10 <sup>4</sup> UFC/g)	Infant cereals with probiotics (1,6.10 <sup>4</sup> CFU/g)	st	st	st	st	-	0	0	-	-	/	-	NA																		14	b
6141	Céréales infantiles avec probiotiques (4,9.10 <sup>4</sup> UFC/g)	Infant cereals with probiotics (4,9.10 <sup>4</sup> CFU/g)	st	st	st	st	-	0	0	-	-	/	-	NA																		14	b
6142	Céréales infantiles avec probiotiques (2,7.10 <sup>5</sup> UFC/g)	Infant cereals with probiotics (2,7.10 <sup>5</sup> CFU/g)	-	-	st	st	-	0	0	-	-	/	-	NA																		14	b
6143	Céréales infantiles avec probiotiques (3,8.10 <sup>4</sup> UFC/g)	Infant cereals with probiotics (3,8.10 <sup>4</sup> CFU/g)	st	st	-	-	-	0	0	-	-	/	-	NA																		14	b
6144	Céréales infantiles avec probiotiques (2,0.10 <sup>4</sup> UFC/g)	Infant cereals with probiotics (2,0.10 <sup>4</sup> CFU/g)	st	st	st	st	-	0	0	-	-	/	-	NA																		14	b
6145	Céréales infantiles avec probiotiques (3,3.10 <sup>5</sup> UFC/g)	Infant cereals with probiotics (3,3.10 <sup>5</sup> CFU/g)	st	st	st	st	-	0	0	-	-	/	-	NA																		14	b
6146	Céréales infantiles avec probiotiques (5,0.10 <sup>5</sup> UFC/g)	Infant cereals with probiotics (5,0.10 <sup>5</sup> CFU/g)	st	st	st	st	-	0	0	-	-	/	-	NA																		14	b
6147	Céréales infantiles avec probiotiques (1,2.10 <sup>6</sup> UFC/g)	Infant cereals with probiotics (1,2.10 <sup>6</sup> CFU/g)	st	st	st	st	-	0	0	-	-	/	-	NA																		14	b
6148	Céréales infantiles avec probiotiques (4,9.10 <sup>4</sup> UFC/g)	Infant cereals with probiotics (4,9.10 <sup>4</sup> CFU/g)	st	st	st	st	-	0	0	-	-	/	-	NA																		14	b
6149	Céréales infantiles avec probiotiques (2,9.10 <sup>4</sup> UFC/g)	Infant cereals with probiotics (2,9.10 <sup>4</sup> CFU/g)	st	st	st	st	-	0	0	-	-	/	-	NA																		14	b
6150	Céréales infantiles avec probiotiques (8,3.10 <sup>3</sup> UFC/g)	Infant cereals with probiotics (8,3.10 <sup>3</sup> CFU/g)	st	st	st	st	-	0	0	-	-	/	-	NA																		14	b
6151	Céréales infantiles avec probiotiques (5,6.10 <sup>5</sup> UFC/g)	Infant cereals with probiotics (5,6.10 <sup>5</sup> CFU/g)	st	st	st	st	-	0	0	-	-	/	-	NA																		14	b





MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITH OR WITHOUT PROBIOTICS INCLUDING INGREDIENTS (375 g test portion) - Specific protocol (8) - Extension No 5																									
Sample N°	Product (french name)	Product	Reference method : ISO 6579-1*		Alternative method: GENE-UP Salmonella																				
			ISO 6579-1 Result	BPW + novobiocin 10mg/L (1/6 dilution) OR pre-warmed BPW (1/10 dilution) for 20 h at 37°C									Storage for 72 h at 5°C ± 3°C											Category	Type
				PCR			Confirmation final result	ISO 6579 (Milk powders) on negative samples	Final Result 18 h	Agreement 18 h	PCR-BPW 72 h			PCR-Lysate 72 h			Confirmation final result	Final result 72 h BPW	Final result 72 h Lysate	Agreement 72 h BPW	Agreement 72 h Lysate				
				Cp	Tm	Result					Cp	Tm	Result	Cp	Tm	Result									
4901	Céréales infantiles avec probiotiques (1,2.10 <sup>4</sup> UFC/g)	Infant cereals with probiotics (1,2.10 <sup>4</sup> CFU/g)	+	0	0	-	-	/	-	ND	0	0	-	0	0	-	-	-	-	ND	ND	15	b		
4902	Céréales infantiles avec probiotiques (9,1.10 <sup>3</sup> UFC/g)	Infant cereals with probiotics (9,1.10 <sup>3</sup> CFU/g)	+	20.91	65.99	+	+	/	+	PA	21,62	66,08	+	20,28	65,92	+	+	+	PA	PA	15	b			
4903	Céréales infantiles avec probiotiques (5,8.10 <sup>3</sup> UFC/g)	Infant cereals with probiotics (5,8.10 <sup>3</sup> CFU/g)	+	21.32	66.29	+	+	/	+	PA	21,25	66,36	+	20,62	66,09	+	+	+	PA	PA	15	b			
4904	Lait infantile avec probiotiques (4,5.10 <sup>5</sup> UFC/g)	Infant formula with probiotics (4,5.10 <sup>5</sup> CFU/g)	+	20.27	66.24	+	+	/	+	PA	20,34	66,32	+	18,6	66,02	+	+	+	PA	PA	15	b			
4905	Lait infantile avec probiotiques (3,2.10 <sup>5</sup> UFC/g)	Infant formula with probiotics (3,2.10 <sup>5</sup> CFU/g)	-	20.47	66	+	+	/	+	PD	20,66	66,12	+	18,63	65,85	+	+	+	PD	PD	15	b			
4906	Lait infantile avec probiotiques (3,0.10 <sup>5</sup> UFC/g)	Infant formula with probiotics (3,0.10 <sup>5</sup> CFU/g)	+	20.76	66.02	+	+	/	+	PA	20,69	66,15	+	19,18	65,96	+	+	+	PA	PA	15	b			
4907	Lait infantile avec probiotiques (3,7.10 <sup>4</sup> UFC/g)	Infant formula with probiotics (3,7.10 <sup>4</sup> CFU/g)	+	22.57	66	+	+	/	+	PA	21,55	65,66	+	20,97	65,99	+	+	+	PA	PA	15	b			
4908	Lait infantile avec probiotiques (4,2.10 <sup>4</sup> UFC/g)	Infant formula with probiotics (4,2.10 <sup>4</sup> CFU/g)	+	30.09	65.72	+	+	/	+	PA	30,11	65,82	+	29,95	65,5	+	+	+	PA	PA	15	b			
4909	Lait infantile avec probiotiques (5,1.10 <sup>4</sup> UFC/g)	Infant formula with probiotics (5,1.10 <sup>4</sup> CFU/g)	+	21.66	66.13	+	+	/	+	PA	22,83	66,29	+	19,57	65,9	+	+	+	PA	PA	15	b			
4910	Lait infantile avec probiotiques (3,1.10 <sup>5</sup> UFC/g)	Infant formula with probiotics (3,1.10 <sup>5</sup> CFU/g)	-	20.87	65.94	+	+	/	+	PD	20,83	65,97	+	20,72	65,82	+	+	+	PD	PD	15	b			
4911	Lait infantile avec probiotiques (7,1.10 <sup>6</sup> UFC/g)	Infant formula with probiotics (7,1.10 <sup>6</sup> CFU/g)	-	0	0	-	-	-	-	NA											15	b			









**MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITH OR WITHOUT PROBIOTICS INCLUDING INGREDIENTS (375 g test portion) - Specific protocol ④ - Extensions No 5 and 7**

Sample N°	Product (french name)	Product	Reference method: ISO 6579-1*				Alternative method: GENE-UP Salmonella																	Category	Type		
			RVS broth		MKTTn broth		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 18h	Agreement 18h	PCR-BPW 72h			PCR-Lysate 72h			Confirmation final result	Final result 72h BPW	Final result 72h Lysate	Agreement 72h BPW	Agreement 72h Lysate							
			Cp	Tm	Result	Confirmation final result	ISO 6579 (Milk powders) on negative samples			Cp	Tm	Result	Cp	Tm	Result												
XLD	ASAP	XLD	ASAP	ISO 6579-1 Result																							
5407	Poudre de lait 14% MG	Milk powder 14% fat	-	-	-	-	-	0	0	-	-	-	-	NA												15	c
5408	Poudre de lait 14% MG	Milk powder 14% fat	-	-	-	-	-	0	0	-	-	-	-	NA												15	c
5409	Poudre de lait bio 0,8% MG	Organic milk powder 0,8% fat	st	st	st	st	-	0	0	-	-	-	-	NA												15	c
5410	Poudre de lait 26% MG	Milk powder 26% fat	-	-	-	-	-	0	0	-	-	-	-	NA												15	c
5679	Poudre de lait haute densité 0,6-0,6% MG	High density milk powder 0,6-0,7% fat	+p	+p	+p	+p	+	28.6	64.85	+	+	/	+	PA	28,5	64,75	+	27,84	64,43	+	+	+	+	PA	PA	15	c
5680	Poudre de lait haute densité 0,6-0,6% MG	High density milk powder 0,6-0,7% fat	+p	+p	+p	+p	+	27.63	64.66	+	+	/	+	PA	28,12	64,44	+	26,81	64,39	+	+	+	+	PA	PA	15	c
5681	Poudre de lait basse densité 0,6-0,7% MG	Low density milk powder 0,6-0,7% fat	+p	+p	+p	+p	+	32.47	64.44	+	+	/	+	PA	34,04	64,37	+	33,34	63,94	+	+	+	+	PA	PA	15	c
5682	Poudre de lait basse densité 0,6-0,7% MG	Low density milk powder 0,6-0,7% fat	+p	+p	+p	+p	+	32.21	64.31	+	+	/	+	PA	34,63	64,36	+	34,06	63,66	+	+	+	+	PA	PA	15	c
5683	Poudre de lait 26% MG	Milk powder 26% fat	+p	+p	+p	+p	+	22.02	64.51	+	+	/	+	PA	22,63	64,84	+	21,76	64,53	+	+	+	+	PA	PA	15	c
5684	Poudre de lait 26% MG	Milk powder 26% fat	+p	+p	+p	+p	+	23.63	64.90	+	+	/	+	PA	23,62	64,83	+	23,45	64,83	+	+	+	+	PA	PA	15	c
5685	Poudre de lait 0% MG	Milk powder 0% fat	+p	+p	+p	+p	+	32.5	64.25	+	+	/	+	PA	33,14	63,95	+	32,85	63,9	+	+	+	+	PA	PA	15	c
5686	Poudre de lait 0% MG	Milk powder 0% fat	+p	+p	+p	+p	+	32.25	65.12	+	+	/	+	PA	30,39	64,15	+	28,46	64,25	+	+	+	+	PA	PA	15	c
5687	Poudre de lait 0,8% MG	Milk powder 0,8% fat	+p	+p	+p	+p	+	21.5	64.97	+	+	/	+	PA	21,23	64,84	+	21,02	64,58	+	+	+	+	PA	PA	15	c
5688	Poudre de lait 14% MG	Milk powder 14% fat	+p	+p	+p	+p	+	21.41	64.55	+	+	/	+	PA	21,13	64,64	+	20,8	64,27	+	+	+	+	PA	PA	15	c





PRIMARY PRODUCTION SAMPLES - Specific protocol ⑨_ Extension No 8 (2020)																											
Sample N°	Product (french name)	Product	Reference method : ISO 6579-1*					Alternative method: GENE-UP Salmonella															Category	Type			
								Tetrathionate for 18h at 37°C ± 1°C																			
			MSRV		MKTTn broth			ISO 6579-1 Result	Subculture SX2 for 18h at 41,5°C ± 1°C			Confirmation final result	Final result 18h	Agreement 18h	Subculture SX2 for 18h at 41,5°C ± 1°C + 72h at 5°C ± 3°C						Confirmation final result	Final result 72h (SX2)			Final result 72h Lysate (SX2)	Agreement 72h (SX2)	Agreement 72h Lysate (SX2)
			PCR			PCR SX2 72h			PCR Lysate 72h																		
			Cp	Tm	Result	Cp	Tm		Result	Cp	Tm				Result												
			Reading	XLD	ASAP	XLD	ASAP																				
3189	Litière volaille	Poultry litter	-/-			-	st	-	0	0	-	-	-	NA											16	b	
3190	Eponge perchoir volaille	Sponge (poultry environment)	+	H2S -	+p	H2S-	+M	+	0	0	-	-	-	ND				-							16	b	
3191	Eponge nid volaille	Sponge (poultry environment)	-/-			-	-	-	28.28	65.65	+	+	+	PD	25.26	65.6	+	24.74	65.68	+	+	+	+	PD	PD	16	b
3192	Ecouvillon perchoir volaille	Swab (poultry environment)	+	H2S -	+p	H2S-	+M	+	21.94	65.55	+	+	+	PA	21.3	65.29	+	22.13	65.66	+	+	+	+	PA	PA	16	b
3193	Ecouvillon abreuvoir volaille	Swab (poultry environment)	+	+p	+p	+M	+M	+	24.13	65.63	+	+	+	PA	24.18	65.66	+	24.53	65.92	+	+	+	+	PA	PA	16	b
3310	Litière de porc	Pork litter	-/-			-	-	-	0	0	-	-	-	NA											16	b	
3311	Litière de porc	Pork litter	-/-			-	-	-	0	0	-	-	-	NA											16	b	
3315	Litière de volaille	Poultry litter	-/-			-	-	-	0	0	-	-	-	NA											16	b	
3316	Chiffonnette nid de poule	Wipe (poultry environment)	-/-			-	+m	+	0	0	-	-	-	ND											16	b	
3317	Ecouvillon perchoir volaille	Swab (poultry environment)	+d/+d	+p	+p	+p	+p	+	26.59	65.54	+	+	+	PA	26.93	65.62	+	26.49	65.61	+	+	+	+	PA	PA	16	b
3318	Eponge volaille abreuvoir	Sponge (poultry environment)	-/-			d (Pantoea)	-	-	24.45	65.7	+	+	+	PD	23.55	65.28	+	24.5	66.02	+	+	+	+	PD	PD	16	b
3475	Eponge volaille perchoir	Sponge (poultry environment)	+d/+d	-	-	-	-	-	27.15	65.71	+	+	+	PD	28.1	65.86	+	27.55	65.7	+	+	+	+	PD	PD	16	b
3477	Eponge volaille abreuvoir	Sponge (poultry environment)	-/-			-	-	-	23.52	65.81	+	+	+	PD	24.19	65.5	+	25.06	65.71	+	+	+	+	PD	PD	16	b
3479	Litière volaille	Poultry litter	-/-			-	-	-	0	0	-	-	-	NA											16	b	
3481	Litière volaille	Poultry litter	-/-			-	-	-	0	0	-	-	-	NA											16	b	

MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITH OR WITHOUT PROBIOTICS, INCLUDING EARLY LIFE NUTRITION (375 g test portion) Specific protocol 10 - Extension No 9 (2023)																													
Year of analysis	Sample N°	Product (French name)	Product	Reference enrichment broth	Reference method: ISO 6579-1*				Alternative method: GENE-UP Salmonella															Category	Type				
					RVS broth		MKTTn broth		Pre-warmed BPW 1/10 + novobiocin 10 mg/L 20 h 37°C					Pre-warmed BPW 1/10 + novobiocin 10 mg/L 20h 37°C +72h at 5 ± 3°C															
					XLD	ASAP	XLD	ASAP	ISO6579 Result	PCR			Confirmation final result	Final result 20h	Agreement Ref/Alt	PCR-BPW 72 h			PCR-Lysate 72 h			Confirmation final result	Final result 72h BPW			Final result 72h Lysate	Agreement 72h BPW	Agreement 72h Lysate	
										Cp	Tm	Result				Cp	Tm	Result	Cp	Tm	Result								
2023	1677	Poudre de lait entier (26% MG)	Whole milk powder (26% fat)	Pre-warmed BPW + Tween 80	-	-	-	-	-	21.58	55.42	+	+	+	PD	20.48	55.11	+	20.21	55.16	+	+	+	+	+	PD	PD	17	a
2023	1678	Poudre de lait demi-écrémé (14% MG)	Half-skim milk powder (14% fat)	Pre-warmed BPW	+p	+p	+p	+p	+	0	0	-	-	-	ND	0	0	-	0	0	-	-	-	-	-	ND	ND	17	a
2023	1679	Poudre de lait écrémé (0,8% fat)	Skim milk powder (0,8% fat)	Pre-warmed BPW	+p	+p	+p	+p	+	22.26	64.50	+	+	+	PA	22.01	64.63	+	22.69	64.32	+	+	+	+	+	PA	PA	17	a
2023	1682	Poudre de lait infantile bio dès 6 mois (23,7% MG)	Infant formula (23,7% fat)	Pre-warmed BPW + Tween 80	+p	+p	+p	+p	+	19.09	65.63	+	+	+	PA	20.30	65.61	+	18.74	65.46	+	+	+	+	+	PA	PA	17	a
2023	1683	Poudre de lait infantile 0 à 6 mois (23,5% MG)	Infant formula (23,5% fat)	Pre-warmed BPW + Tween 80	+p	+p	+p	+p	+	18.87	64.89	+	+	+	PA	21.85	65.09	+	18.52	65.13	+	+	+	+	+	PA	PA	17	a
2023	1684	Céréales infantiles	Infant cereals	Pre-warmed BPW + α-amylase	-	-	-	-	-	27.27	55.58	+	+	+	PD	27.17	55.32	+	26.72	55.57	+	+	+	+	+	PD	PD	17	a
2023	2047	Céréales infantiles dès 12 mois saveur noisette/biscuit	Infant cereals	Pre-warmed BPW + α-amylase	+p	+p	+p	+p	+	18.75	65.48	+	+	+	PA	18.76	65.35	+	26.04	65.52	+	+	+	+	+	PA	PA	17	a
2023	2048	Céréales infantiles dès 8 mois 5 céréales/miel	Infant cereals	Pre-warmed BPW + α-amylase	+p	+p	+p	+p	+	18.46	65.20	+	+	+	PA	18.14	65.63	+	25.91	66.02	+	+	+	+	+	PA	PA	17	a
2023	2049	Poudre de lait infantile de 0 à 6 mois (24,9% MG)	Infant formula with probiotics (24, % fat)	Pre-warmed BPW + Tween 80	+p	+p	+p	+p	+	19.18	65.35	+	+	+	PA	19.25	65.40	+	25.64	65.68	+	+	+	+	+	PA	PA	17	a
2023	2050	Poudre de lait infantile de 6 à 12 mois (22,6 % MG)	Infant formula with probiotics (22,6% fat)	Pre-warmed BPW + Tween 80	st	st	st	st	-	19.53	65.47	+	+	+	PD	19.22	65.15	+	25.10	65.56	+	+	+	+	+	PD	PD	17	a
2023	2051	Poudre de lait infantile dès la naissance (25% MG)	Infant formula with probiotics (25% fat)	Pre-warmed BPW + Tween 80	+p	+p	+p	+p	+	18.90	65.03	+	+	+	PA	19.43	65.52	+	25.47	65.40	+	+	+	+	+	PA	PA	17	a
2023	2522	Poudre de lait infantile Blédilait de 0 à 6 mois (24,9% MG)	Infant formula (24,9% fat)	Pre-warmed BPW + Tween 80	st	st	st	st	-	0	0	-	-	-	NA													17	a
2023	2523	Poudre de lait infantile Aptamil 6-12 mois (23,2% MG)	Infant formula (23,2% fat)	Pre-warmed BPW + Tween 80	st	st	st	st	-	0	0	-	-	-	NA													17	a
2023	2524	Poudre de lait infantile Lémil 6-12 mois (26% MG)	Infant formula (26% fat)	Pre-warmed BPW + Tween 80	st	st	st	st	-	0	0	-	-	-	NA													17	a
2023	2525	Poudre de lait infantile bio 6-12 mois (23,5% MG)	Organic infant formula (23,5% fat)	Pre-warmed BPW + Tween 80	st	st	st	st	-	0	0	-	-	-	NA													17	a
2023	2526	Poudre de lait infantile bio célia 6-12 mois (23% MG)	Organic infant formula (23% fat)	Pre-warmed BPW + Tween 80	st	st	st	st	-	0	0	-	-	-	NA													17	a
2023	2527	Céréales infantiles saveur vanille dès 12 mois	Infant cereals	Pre-warmed BPW + α-amylase	-	-	-	-	-	0	0	-	-	-	NA													17	a

\* Analyses performed according to the COFRAC accreditation

MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITH OR WITHOUT PROBIOTICS, INCLUDING EARLY LIFE NUTRITION (375 g test portion) Specific protocol ⑩ - Extension No 9 (2023)																													
Year of analysis	Sample N°	Product (French name)	Product	Reference enrichment broth	Reference method: ISO 6579-1*				Alternative method: GENE-UP Salmonella																	Category	Type		
					RVS broth		MKTTn broth		ISO6579 Result	Pre-warmed BPW 1/10 + novobiocin 10 mg/L 20 h 37°C					Pre-warmed BPW 1/10 + novobiocin 10 mg/L 20h 37°C +72h at 5 ± 3°C														
					XLD	ASAP	XLD	ASAP		PCR			Confirmation final result	Final result 20h	Agreement Ref/Alt	PCR-BPW 72 h			PCR-Lysate 72 h			Confirmation final result	Final result 72h BPW	Final result 72h Lysate	Agreement 72h BPW			Agreement 72h Lysate	
										Cp	Tm	Result				Cp	Tm	Result	Cp	Tm	Result								
2023	2528	Céréales infantiles Babivanille 10-36 mois	Infant cereals	Pre-warmed BPW + α-amylase	st	st	st	st	-	0	0	-	-	-	NA												17	a	
2023	2529	Céréales infantiles biscuité 4-36 mois	Infant cereals	Pre-warmed BPW + α-amylase	st	st	st	st	-	0	0	-	-	-	NA													17	a
2023	2530	Céréales infantiles 5 céréales/noisette/biscuit dès 12 mois	Infant cereals	Pre-warmed BPW + α-amylase	st	st	st	st	-	0	0	-	-	-	NA													17	a
2023	1815	Poudre de lait infantile Optima 6 à 12 mois avec probiotiques (B.lactis: 8,91.10 <sup>5</sup> UFC/g) (24,5% MG)	Infant formula with probiotics (B.lactis: 8,91.10 <sup>5</sup> CFU/g) (24,5% fat)	Pre-warmed BPW 2X + Tween 80	+p	+p	+p	+p	+	18.94	65.67	+	+	+	PA	19.56	65.94	+	18.98	65.58	+	+	+	+	PA	PA	17	b	
2023	1816	Poudre de lait infantile SN bio plus 10-36 mois avec probiotiques (B.lactis: 4,09.10 <sup>5</sup> UFC/g) (25% MG)	Infant formula with probiotics (B.lactis: 4,09.10 <sup>5</sup> CFU/g) (25% fat)	Pre-warmed BPW 2X + Tween 80	+p	+p	+p	+p	+	18.51	65.34	+	+	+	PA	18.88	65.79	+	18.63	65.54	+	+	+	+	PA	PA	17	b	
2023	1817	Poudre de lait infantile Evolia dès 6 mois avec probiotiques (B.lactis: 1,36.10 <sup>6</sup> UFC/g) (27,6% MG)	Infant formula with probiotics (B.lactis: 1,36.10 <sup>6</sup> CFU/g) (27,6% fat)	Pre-warmed BPW 2X + Tween 80	+p	+p	+p	+p	+	20.96	65.50	+	+	+	PA	21.10	65.86	+	20.59	65.36	+	+	+	+	PA	PA	17	b	
2023	1818	Poudre de lait infantile de 6 à 12 mois avec probiotiques (B.lactis: 3,36.10 <sup>4</sup> UFC/g) (26% MG)	Infant formula with probiotics (B.lactis: 3,36.10 <sup>4</sup> CFU/g) (26% fat)	Pre-warmed BPW 2X + Tween 80	+p	+p	+p	+p	+	18.72	65.55	+	+	+	PA	19.16	65.44	+	19.05	65.46	+	+	+	+	PA	PA	17	b	
2023	1819	Poudre de lait infantile NivalGest de 0 à 6 mois avec probiotiques (B.lactis: 2,45.10 <sup>3</sup> UFC/g) (28,2% MG)	Infant formula with probiotics (B.lactis: 2,45.10 <sup>3</sup> CFU/g) (28,2% fat)	Pre-warmed BPW 2X + Tween 80	+p	+p	+p	+p	+	20.10	65.61	+	+	+	PA	19.83	65.91	+	18.63	65.39	+	+	+	+	PA	PA	17	b	
2023	2041	Céréales infantiles banane avec probiotiques (B.lactis : 1,09.10 <sup>6</sup> UFC/g)	Infant cereals with probiotics (B.lactis : 1,09.10 <sup>6</sup> CFU/g)	Pre-warmed BPW 2X + α-amylase	st	st	st	st	-	18.64	65.56	+	+	+	PD	17.87	65.17	+	28.28	65.34	+	+	+	+	PD	PD	17	b	
2023	2042	Céréales infantiles pomme/pêche avec probiotiques (B.lactis : 1,45.10 <sup>6</sup> UFC/g)	Infant cereals with probiotics (B.lactis : 1,09.10 <sup>6</sup> CFU/g)	Pre-warmed BPW 2X + α-amylase	st	st	st	st	-	18.58	64.99	+	+	+	PD	17.80	65.00	+	26.18	65.80	+	+	+	+	PD	PD	17	b	
2023	2043	Céréales infantiles banane/prune/quinoa dès 6 mois avec probiotiques (B.lactis : 1,18.10 <sup>3</sup> UFC/g)	Infant cereals with probiotics (B.lactis : 1,18.10 <sup>3</sup> CFU/g)	Pre-warmed BPW 2X + α-amylase	+p	+p	+p	+p	+	0	0	-	-	-	ND	0	0	-	0	0	-	-	-	-	ND	ND	17	b	
2023	2044	Céréales infantiles 2 céréales/quinoa avec probiotiques (B.lactis : 4,41.10 <sup>5</sup> UFC/g)	Infant cereals with probiotics (B.lactis : 4,41.10 <sup>5</sup> CFU/g)	Pre-warmed BPW 2X + α-amylase	+p	+p	+p	+p	+	18.83	65.36	+	+	+	PA	18.33	65.15	+	28.49	65.82	+	+	+	+	PA	PA	17	b	

MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITH OR WITHOUT PROBIOTICS, INCLUDING EARLY LIFE NUTRITION (375 g test portion)																													
Specific protocol 10 - Extension No 9 (2023)																													
Year of analysis	Sample N°	Product (French name)	Product	Reference enrichment broth	Reference method: ISO 6579-1*				Alternative method: GENE-UP <i>Salmonella</i>																	Category	Type		
					RVS broth		MKTTn broth		ISO6579 Result	Pre-warmed BPW 1/10 + novobiocin 10 mg/L 20 h 37°C					Pre-warmed BPW 1/10 + novobiocin 10 mg/L 20h 37°C +72h at 5 ± 3°C														
					XLD	ASAP	XLD	ASAP		PCR			Confirmation final result	Final result 20h	Agreement Ref/Alt	PCR-BPW 72 h			PCR-Lysate 72 h			Confirmation final result	Final result 72h BPW	Final result 72h Lysate	Agreement 72h BPW			Agreement 72h Lysate	
										Cp	Tm	Result				Cp	Tm	Result	Cp	Tm	Result								
2023	2045	Poudre de lait infantile optipro 0-6 mois avec probiotiques ( <i>B.lactis</i> : 3,09.10 <sup>6</sup> UFC/g) (27,8% MG)	Infant formula with probiotics ( <i>B.lactis</i> : 3,09.10 <sup>6</sup> CFU/g) (27,6% fat)	Pre-warmed BPW 2X + Tween 80	+p	+p	+p	+p	+	23.99	65.12	+	+	+	PA	24.10	65.34	+	30.93	65.64	+	+	+	+	PA	PA	17	b	
2023	2046	Poudre de lait infantile système immunitaire dès 1 an avec probiotiques ( <i>L.reuteri</i> : 4,73.10 <sup>5</sup> UFC/g) (23% MG)	Infant formula with probiotics ( <i>L.reuteri</i> : 4,73.10 <sup>5</sup> CFU/g) (23% fat)	Pre-warmed BPW 2X + Tween 80	+p	+p	+p	+p	+	19.99	65.18	+	+	+	PA	19.79	65.09	+	26.73	65.61	+	+	+	+	PA	PA	17	b	
2023	2375	Céréales infantiles banane avec probiotiques ( <i>B.lactis</i> 1,09.10 <sup>6</sup> UFC/g)	Infant cereals with probiotics ( <i>B.lactis</i> 1,09.10 <sup>6</sup> CFU/g)	Pre-warmed BPW 2X + α-amylase	st	st	st	st	-	0	0	-	-	-	NA												17	b	
2023	2376	Céréales infantiles pomme/pêche avec probiotiques ( <i>B.lactis</i> : 1,45.10 <sup>6</sup> UFC/g)	Infant cereals with probiotics ( <i>B.lactis</i> : 1,45.10 <sup>6</sup> CFU/g)	Pre-warmed BPW 2X + α-amylase	st	st	st	st	-	0	0	-	-	-	NA													17	b
2023	2377	Céréales infantiles dès 6 mois avec probiotiques ( <i>B.lactis</i> : 1,36.10 <sup>4</sup> UFC/g)	Infant cereals with probiotics ( <i>B.lactis</i> : 1,36.10 <sup>4</sup> CFU/g)	Pre-warmed BPW 2X + α-amylase	st	st	st	st	-	0	0	-	-	-	NA													17	b
2023	2378	Céréales infantiles 2 céréales/banane/prune avec probiotiques ( <i>B.lactis</i> : 1,18.10 <sup>3</sup> UFC/g)	Infant cereals with probiotics ( <i>B.lactis</i> : 1,18.10 <sup>3</sup> CFU/g)	Pre-warmed BPW 2X + α-amylase	st	st	st	st	-	0	0	-	-	-	NA													17	b
2023	2379	Poudre de lait infantile optipro 0-6 mois avec probiotiques ( <i>B.lactis</i> : 3,09.10 <sup>6</sup> UFC/g) (27,8% MG)	Infant formula with probiotics ( <i>B.lactis</i> : 3,09.10 <sup>6</sup> CFU/g) (27,8% fat)	Pre-warmed BPW 2X + Tween 80	st	st	st	st	-	0	0	-	-	-	NA													17	b
2023	2380	Poudre de lait infantile 10-36 mois avec probiotiques ( <i>B.lactis</i> : 3,56.10 <sup>5</sup> UFC/g) (26% MG)	Infant formula with probiotics ( <i>B.lactis</i> : 3,56.10 <sup>5</sup> CFU/g) (26% fat)	Pre-warmed BPW 2X + Tween 80	st	st	st	st	-	0	0	-	-	-	NA													17	b
2023	2381	Poudre de lait infantile système immunitaire dès 6 mois avec probiotiques ( <i>L.reuteri</i> : 4,73.10 <sup>5</sup> UFC/g ) (24% MG)	Infant formula with probiotics ( <i>L.reuteri</i> : 4,73.10 <sup>5</sup> CFU/g) (24% fat)	Pre-warmed BPW 2X + Tween 80	st	st	st	st	-	0	0	-	-	-	NA													17	b
2023	2382	Poudre de lait infantile 0-6 mois avec probiotiques ( <i>L.reuteri</i> : 3,24.10 <sup>5</sup> UFC/g) ( 26% MG)	Infant formula with probiotics ( <i>L.reuteri</i> : 3,24.10 <sup>5</sup> CFU/g) (26% fat)	Pre-warmed BPW 2X + Tween 80	st	st	st	st	-	0	0	-	-	-	NA													17	b





MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITH OR WITHOUT PROBIOTICS, INCLUDING EARLY LIFE NUTRITION (375 g test portion) Specific protocol ⑩ - Extension No 9 (2023)																														
Year of analysis	Sample N°	Product (French name)	Product	Reference enrichment broth	Reference method: ISO 6579-1*				Alternative method: GENE-UP <i>Salmonella</i>																Category	Type				
					RVS broth		MKTTn broth		ISO6579 Result	Pre-warmed BPW 1/10 + novobiocin 10 mg/L 20 h 37°C					Pre-warmed BPW 1/10 + novobiocin 10 mg/L 20h 37°C +72h at 5 ± 3°C															
					XLD	ASAP	XLD	ASAP		PCR			Confirmation final result	Final result 20h	Agreement Ref/Alt	PCR-BPW 72 h			PCR-Lysate 72 h			Confirmation final result	Final result 72h BPW	Final result 72h Lysate			Agreement 72h BPW	Agreement 72h Lysate		
										Cp	Tm	Result				Cp	Tm	Result	Cp	Tm	Result									
2023	2386	Poudre de riz infantile bio 10-36 mois avec probiotiques ( <i>B.lactis</i> : 2,73.10 <sup>2</sup> UFC/g) (21,5% MG)	Infant rice powder with probiotics ( <i>B.lactis</i> : 2,73.10 <sup>2</sup> CFU/g) (21,5% fat)	Pre-warmed BPW 2X + Tween 80	st	st	st	st	-	0	0	-	-	-	NA													17	c	
2023	2387	Poudre infantile sans lactose avec probiotiques ( <i>L.reuteri</i> : 1,20.10 <sup>6</sup> UFC/g) ( 25,5% MG)	Infant powder without lactose with probiotics ( <i>L.reuteri</i> : 1,5.10 <sup>6</sup> CFU/g ) (25,5% fat)	Pre-warmed BPW 2X + Tween 80	st	st	st	st	-	0	0	-	-	-	NA														17	c
2023	2531	Poudre de riz infantile (24,3% MG)	Infant rice powder (24,3% fat)	Pre-warmed BPW + Tween 80	st	st	st	st	-	0	0	-	-	-	NA														17	c
2023	2532	Poudre de riz infantile croissance végétal dès 12 mois (26% MG)	Infant rice powder (26% fat)	Pre-warmed BPW + Tween 80	st	st	st	st	-	0	0	-	-	-	NA														17	c
2023	2533	Poudre de riz infantile 6-12 mois (22,8% MG)	Infant rice powder (22,8% fat)	Pre-warmed BPW + Tween 80	st	st	st	st	-	0	0	-	-	-	NA														17	c
2023	2534	Poudre de riz infantile AR 0-6 mois (24,9% MG)	Infant rice powder (24,9% fat)	Pre-warmed BPW + Tween 80	st	st	st	st	-	0	0	-	-	-	NA														17	c
2023	2535	Poudre de riz infantile bio dès 6 mois (23,5% MG)	Infant rice powder (23,5% fat)	Pre-warmed BPW + Tween 80	st	st	st	st	-	0	0	-	-	-	NA														17	c

RAW MATERIAL FOR CHOCOLATE INDUSTRY (375 g test portion)																			
Specific protocol ⑪ - Extension No 11 (2023)																			
Year of analysis	Sample N°	Product (French name)	Product	Reference enrichment broth	Reference method: ISO 6579-1*				Alternative method: GENE-UP Salmonella									Category	Type
					RVS broth		MKTTn broth		ISO 6579-1 Result	Pre-warmed BPW 1/10 + BACTBOOST 10 h at 37°C					Pre-warmed BPW 1/10 + BACTBOOST 10 h at 37°C +72 h at 5 ± 3°C				
					XLD	ASAP	XLD	ASAP		PCR 10h (GU lysis PREP)			Confirmation final result	Final result 10 h	Agreement Ref/Alt 10 h	Agreement 72 h BPW 10 h	Agreement 72 h Lysate 10 h		
										Cp	Tm	Result 10 h							
2023	2513	Poudre de cacao	Cocoa powder	Pre-warmed UHT skimmed milk	st	st	st	st	-	0	0	-	-	-	NA		18	a	
2023	2514	Poudre de cacao	Cocoa powder	Pre-warmed UHT skimmed milk	st	st	st	st	-	0	0	-	-	-	NA		18	a	
2023	2515	Liqueur de cacao	Cocoa liquor	Pre-warmed UHT skimmed milk + Tween80	+p	+p	+p	+p	+	35.92	66.09	+	+	+	PA	PA	ND	18	a
2023	2516	Masse de cacao	Cocoa mass	Pre-warmed UHT skimmed milk	+p	+p	+p	+p	+	26.19	65.93	+	+	+	PA	PA	PA	18	a
2023	2801	Masse de cacao	Cocoa mass	Pre-warmed UHT skimmed milk + Tween80	st	st	st	st	-	31.26	66.68	+	+	+	PD	PD	PD	18	a
2023	2802	Beurre de cacao non désodorisé	Cocoa butter (non-deodorised)	Pre-warmed BPW + Tween80	st	st	st	st	-	33.70	65.90	+	+	+	PD	PD	PD	18	a
2023	2803	Poudre de cacao 100% cacao	Cocoa powder (100%)	Pre-warmed UHT skimmed milk	+p	+p	+p	+p	+	34.95	66.14	+	+	+	PA	PA	PA	18	a
2023	2804	Poudre de cacao alcalisé	Alkalized cocoa powder	Pre-warmed UHT skimmed milk	+p	+p	+p	+p	+	33.11	65.90	+	+	+	PA	PA	PA	18	a
2023	2805	Liqueur de cacao	Cocoa liquor	Pre-warmed UHT skimmed milk + Tween80	st	st	st	st	-	0	0	-	-	-	NA		18	a	
2023	2806	Masse de cacao	Cocoa mass	Pre-warmed UHT skimmed milk + Tween80	+p	+p	+p	+p	+	0	0	-	-	-	ND	ND	ND	18	a
2023	2807	Beurre de cacao non désodorisé	Cocoa butter (non-deodorised)	Pre-warmed BPW + Tween80	+p	+p	+p	+p	+	35.16 0 0	65.98 0 0	+ / - / -	-	-	ND	ND	PPND	18	a
2023	3079	Pellet chocolat noir	Chocolate (pellets)	Pre-warmed UHT skimmed milk	+p	+p	+p	+p	+	34.77	66.38	+	+	+	PA	PA	PA	18	a
2023	3082	Liqueur de cacao	Cocoa liquor	Pre-warmed UHT skimmed milk + Tween80	st	st	st	st	-	32.10	66.03	+	+	+	PD	PD	PD	18	a
2023	3083	Poudre de cacao	Cocoa powder	Pre-warmed UHT skimmed milk	+p	+p	+p	+p	+	35.07	66.07	+	+	+	PA	PA	PA	18	a
2023	3806	Beurre de cacao (>20% MG)	Cocoa butter	Pre-warmed BPW + Tween80	st	st	st	st	-	0	0	-	-	-	NA		18	a	
2023	3807	Pellet chocolat noir	Chocolate (pellets)	Pre-warmed UHT skimmed milk	st	st	st	-	-	0	0	-	-	-	NA		18	a	
2023	3808	Masse de cacao	Cocoa mass	Pre-warmed UHT skimmed milk	st	st	st	st	-	0	0	-	-	-	NA		18	a	
2023	3809	Liqueur de cacao	Cocoa liquor	Pre-warmed UHT skimmed milk + Tween80	st	st	st	st	-	0	0	-	-	-	NA		18	a	
2023	3810	Masse de cacao	Cocoa mass	Pre-warmed UHT skimmed milk	st	st	st	st	-	0	0	-	-	-	NA		18	a	
2023	3987	Poudre de cacao	Cocoa powder	Pre-warmed UHT skimmed milk	st	st	st	st	-	0	0	-	-	-	NA		18	a	
2023	2507	Lactosérum	Whey	Pre-warmed BPW	+p	+p	+p	+p	+	30.81	66.23	+	+	+	PA	PA	PA	18	b
2023	2508	Lactosérum	Whey	Pre-warmed BPW	st	st	st	st	-	0	0	-	-	-	NA		18	b	
2023	2509	Protéine de lactosérum	Whey protein concentrate	Pre-warmed BPW	+p	+p	+p	+p	+	0	0	-	-	-	ND	ND	ND	18	b
2023	2510	Lactose	Lactose	Pre-warmed BPW	+p	+p	+p	+p	+	30.44	66.40	+	+	+	PA	PA	PA	18	b
2023	2740	Poudre de crème	Cream powder	Pre-warmed BPW + Tween80	+p	+p	+p	+p	+	0	0	-	-	-	ND	ND	ND	18	b

\* Analyses performed according to the COFRAC accreditation













RAW MATERIAL FOR CHOCOLATE INDUSTRY (375 g test portion)																											
Specific protocol 12 - Extension No 11 (2023)																											
Year of analysis	Sample N°	Product (french name)	Product	Reference method: ISO 6579-1*					Alternative method: GENE-UP Salmonella																	Category	type
				RVS broth		MKTn broth		ISO 6579-1 Result	Pre-warmed BPW 1/10 + BACTBOOST 22 h 37°C					Pre-warmed BPW 1/10 + BACTBOOST 22 h at 37°C +72h at 5 ± 3°C													
				Cp	Tm	Result	Confirmation final result		Final result 22 h	Agreement Ref/Alt	PCR-BPW 72 h (GU lysis kit)			PCR-Lysate 72 h (GU lysis kit)			Confirmation final result	Final result 72 h BPW	Final result 72 h Lysate	Agreement 72 h BPW	Agreement 72 h Lysate						
											Cp	Tm	Result	Cp	Tm	Result											
XLD	ASAP	XLD	ASAP																								
2023	3089	Poudre de yaourt	Yogurt powder	+M	+p	+M	+p	+	21.88	65.45	+	+	+	PA	28.02	65.90	+	21.79	65.50	+	+	+	+	PA	PA	18	b
2023	3683	Poudre de babeurre	Buttermilk powder	st	st	st	st	-	0	0	-	-	-	NA												18	b
2023	3684	Poudre de yaourt	Yogurt powder	st	st	st	st	-	0	0	-	-	-	NA												18	b
2023	3685	Poudre de lait entier (26% MG)	Milk powder (26% fat)	st	st	st	st	-	0	0	-	-	-	NA												18	b
2023	3802	Lactose	Lactose	st	st	-	-	-	0	0	-	-	-	NA												18	b
2023	3803	Protéine de lactosérum	Whey proteine concentrate	st	st	-	-	-	0	0	-	-	-	NA												18	b
2023	3804	Poudre de lait entier (25% MG)	Whole milk powder	st	st	st	st	-	0	0	-	-	-	NA												18	b
2023	3805	Poudre de yaourt (>20% MG)	Yogurt powder	st	st	st	st	-	0	0	-	-	-	NA												18	b
2023	2511	Amidon de maïs	Corn starch	st	st	st	st	-	0	0	-	-	-	NA												18	c
2023	2512	Amidon de riz	Rice starch	st	st	st	st	-	19.84	65.39	+	+	+	PD	20.24	65.54	+	20.59	64.91	+	+	+	+	PD	PD	18	c
2023	2733	Beurre de cacahuètes	Peanut butter	st	st	st	st	-	24.11	65.56	+	+	+	PD	24.68	65.52	+	23.83	65.69	+	+	+	+	PD	PD	18	c
2023	2734	Tapioca	Tapioca	-	-	-	-	-	0	0	-	-	-	NA												18	c
2023	2735	Lécithine de soja	Soy lecithin	st	st	st	st	-	0	0	-	-	-	NA												18	c
2023	2736	Pâte d'amandes	Marzipan	+p	+p	+p	+p	+	0	0	-	-	-	ND	0	0	-	0	0	-	-	-	-	ND	ND	18	c
2023	2737	Dextrose en poudre	Dextrose	st	st	st	st	-	0	0	-	-	-	NA												18	c
2023	2738	Praliné amande/noisette (30% MG)	Almond/hazelnut praline (30% fat)	+M	+M	+M	+M	+	20.91	65.61	+	+	+	PA	20.76	65.50	+	20.82	65.55	+	+	+	+	PA	PA	18	c
2023	2739	Glucose déshydraté	Glucose (powder)	+p	+p	+p	+p	+	18.88	65.77	+	+	+	PA	18.88	65.50	+	18.66	65.59	+	+	+	+	PA	PA	18	c
2023	3080	Beurre de cacahuètes	Peanut butter	+p	+p	+p	+p	+	25.71	65.26	+	+	+	PA	23.97	65.68	+	25.24	65.16	+	+	+	+	PA	PA	18	c
2023	3081	Tapioca fin	Tapioca	+M	+M	+M	+M	+	26.92	65.69	+	+	+	PA	34.74	66.18	+	25.95	65.37	+	+	+	+	PA	PA	18	c
2023	3085	Amidon de riz	Rice starch	+p	+p	+p	+p	+	21.89	65.54	+	+	+	PA	23.95	65.71	+	21.79	65.35	+	+	+	+	PA	PA	18	c
2023	3086	Dextrose en poudre	Dextrose	+p	+p	+p	+p	+	19.50	65.87	+	+	+	PA	25.64	65.99	+	18.81	65.33	+	+	+	+	PA	PA	18	c
2023	3087	Lécithine de soja	Soy lecithin	+M	+M	+M	+M	+	20.00	65.89	+	+	+	PA	22.14	66.01	+	19.50	65.59	+	+	+	+	PA	PA	18	c
2023	3677	Glucose en poudre	Glucose powder	-	-	st	st	-	0	0	-	-	-	NA												18	c
2023	3678	Amidon de riz	Rice starch	st	st	st	st	-	0	0	-	-	-	NA												18	c
2023	3679	Pâte d'amandes	Marzipan	st	st	st	st	-	0	0	-	-	-	NA												18	c
2023	3680	Praliné amande/noisette (30% MG)	Hazelnut / almond praline	-	-	-	-	-	0	0	-	-	-	NA												18	c
2023	3681	Amidon de maïs	Corn starch	st	st	st	st	-	0	0	-	-	-	NA												18	c
2023	3682	Lécithine de soja	Soja lecithin	-	-	-	-	-	0	0	-	-	-	NA												18	c

CHOCOLATE AND CONFECTIONARIES (375 g test portion)																													
Specific protocol ④ without BACTVIAB PMaxx protocol - Extension No 10(2023)																													
Year of analysis	Sample N°	Product (French name)	Product	Reference enrichment broth	Reference method: ISO 6579-1*				Alternative method: GENE-UP Salmonella																		Category	Type	
					RVS broth		MKTn broth		Result	Pre-warmed BPW or UHT skimmed milk 1/10 for 22 h at 37°C					Pre-warmed BPW or UHT skimmed milk 1/10 + 72 h at 5 ± 3°C														
					XLD	ASAP	XLD	ASAP		PCR (without PMAxx)			Confir-mation final result	Final result 22 h	Agreement Ref/Alt	PCR-BPW 72 h (without PMAxx)			PCR-Lysate 72 h (without PMAxx)			Confir-mation final result	Final result 72 h BPW	Final Result 72 h Lysate	Agreement 72 h BPW	Agreement 72 h Lysate			
										Cp	Tm	Result				Cp	Tm	Result	Cp	Tm	Result								
2023	3686	Poudre de cacao alcalisé	Alkalized cocoa powder	Pre-warmed Milk	+p	+p	+p	+p	+	25.95	65.64	+	+	+	PA	27.17	66.13	+	30.93	65.53	+	+	+	+	PA	PA	19	a	
2023	3687	Poudre de cacao alcalisé	Fat reduced alkalized cocoa powder	Pre-warmed Milk	+p (H2S-)	+p	+p (H2S-)	+p	+	23.14	65.40	+	+	+	PA	23.65	65.68	+	30.45	64.89	+	+	+	+	PA	PA	19	a	
2023	3688	Masse de cacao	Chocolate mass	Pre-warmed Milk	+p	+p	+p	+p	+	29,78	65,8	+	+	+	PA	33.97	65.69	+	35.55	65.36	+	+	+	+	PA	PA	19	a	
2023	3689	Beurre de cacao (non désodorisé)	Cocoa butter (non-deodorised)	Pre-warmed BPW + Tween80	+p	+p	+p	+p	+	24.95	66.18	+	+	+	PA	26.27	66.23	+	28.90	65.62	+	+	+	+	PA	PA	19	a	
2023	3690	Fève de cacao	Cocoa beans	Pre-warmed BPW	st	st	st	st	-	35.54	65.55	+	-	-	NA												19	a	
2023	3883	Beurre de cacao	Cocoa butter	Pre-warmed Milk + Tween80	st	st	st	st	-	0	0	-	-	-	NA	0	0											19	a
2023	3884	Masse de cacao	Cocoa mass	Pre-warmed Milk	+p	+p	+p	+p	+	20.32	65.72	+	+	+	PA	23.73	66.31	+	20.50	65.75	+	+	+	+	PA	PA	19	a	
2023	3885	Liqueur de cacao	Cocoa liquor	Pre-warmed Milk + Tween80	+p	+p	+p	+p	+	22.02	65.61	+	+	+	PA	24.17	66.18	+	21.96	65.88	+	+	+	+	PA	PA	19	a	
2023	4192	Fèves de cacao	Cocoa beans	Pre-warmed Milk	st	st	st	st	-	0	0	-	-	-	NA													19	a
2023	4193	Liqueur de cacao	Cocoa liquor	Pre-warmed Milk + Tween80	+p	+p	+p	+p	+	24.08	65.97	+	+	+	PA	24.33	66.61	+	24.22	66.37	+	+	+	+	PA	PA	19	a	
2023	4292	Masse de cacao	Cocoa mass	Pre-warmed Milk	+p	+p	+p	+p	+	23.72	66.39	+	+	+	PA	23.56	66.39	+	23.83	66.65	+	+	+	+	PA	PA	19	a	
2023	4293	Beurre de cacao	Cocoa butter	Pre-warmed BPW + Tween80	+p (H2S-)	+p (H2S-)	+p (H2S-)	+p (H2S-)	+	25.55	66.12	+	+	+	PA	25.27	66.10	+	25.77	66.27	+	+	+	+	PA	PA	19	a	
2023	4294	Poudre de cacao	Cocoa powder	Pre-warmed Milk	st	st	st	st	-	0	0	-	-	-	NA													19	a
2023	4306	Poudre de cacao	Cocoa powder	Pre-warmed Milk	st	st	st	st	-	0	0	-	-	-	NA													19	a
2023	5075	Liqueur de cacao	Cocoa liquor	Pre-warmed Milk + Tween80	st	st	st	st	-	0	0	-	-	-	NA													19	a
2023	5076	Liqueur de cacao	Cocoa liquor	Pre-warmed Milk + Tween80	st	st	st	st	-	0	0	-	-	-	NA													19	a
2023	5077	Beurre de cacao	Cocoa butter	Pre-warmed Milk + Tween80	st	st	st	st	-	0	0	-	-	-	NA													19	a
2023	5078	Masse de cacao	Cocoa mass	Pre-warmed Milk	st	st	st	st	-	0	0	-	-	-	NA													19	a
2023	4943	Fève de cacao	Cocoa beans	Pre-warmed Milk	st	st	st	st	-	0	0	-	-	-	NA													19	a
2023	4944	Liqueur de cacao	Cocoa liquor	Pre-warmed Milk + Tween80	+p	+p	+p	+p	+	24.94	65.97	+	+	+	PA	24.09	66.46	+	24.67	66.31	+	+	+	+	PA	PA	19	a	
2023	3691	Chocolat blanc	White chocolate	Pre-warmed Milk + Tween80	+p	+p	+p	+p	+	0/36.07/0	0/65.85/0	-/+/-	+	-	ND	0/0/35.75	0/0/65.67	-/+	0/0/0	0/0/0	-/+	+	-	-	ND	ND	19	b	
2023	3692	Chocolat noir	Dark chocolate	Pre-warmed Milk	+p	+p	+p	+p	+	25.85	65.98	+	+	+	PA	26.01	66.16	+	30.01	65.91	+	+	+	+	PA	PA	19	b	
2023	3693	Chocolat au lait	Milk chocolate	Pre-warmed Milk	+p	+p	+p	+p	+	35.75	65.73	+	+	+	PA	34.46	65.03	+	0/35.24/35.57	0/65.73/65.69	-/+	+	+	-	PA	ND	19	b	
2023	3920	Chocolat noir force noir (50% cacao)	Dark chocolate (50% cocoa)	Pre-warmed Milk	+p	+p	+p	+p	+	25.00	66.20	+	+	+	PA	27.84	66.66	+	28.94	65.25	+	+	+	+	PA	PA	19	b	
2023	3921	Pépites de chocolat noir (48% cacao)	Dark chocolate (48% cocoa)	Pre-warmed Milk	st	st	st	st	-	0	0	-	-	-	NA													19	b
2023	3922	Chunks de chocolat noir (48% cacao)	Dark chocolate (48% cocoa)	Pre-warmed Milk	+p	+p	+p	+p	+	24.50	66.22	+	+	+	PA	27.74	66.51	+	32.63	65.60	+	+	+	+	PA	PA	19	b	

\* Analyses performed according to the COFRAC accreditation

CHOCOLATE AND CONFECTIONARIES (375 g test portion)																												
Specific protocol ④ without BACTVIAB PMaxx protocol - Extension No 10(2023)																												
Year of analysis	Sample N°	Product (French name)	Product	Reference enrichment broth	Reference method: ISO 6579-1*				Alternative method: GENE-UP Salmonella																		Category	Type
					RVS broth		MKTTn broth		Result	Pre-warmed BPW or UHT skimmed milk 1/10 for 22 h at 37°C					Pre-warmed BPW or UHT skimmed milk 1/10 + 72 h at 5 ± 3°C													
					XLD	ASAP	XLD	ASAP		PCR (without PMAxx)			Confir-mation final result	Final result 22 h	Agreement Ref/Alt	PCR-BPW 72 h (without PMAxx)			PCR-Lysate 72 h (without PMAxx)			Confir-mation final result	Final result 72 h BPW	Final Result 72 h Lysate	Agreement 72 h BPW	Agreement 72 h Lysate		
										Cp	Tm	Result				Cp	Tm	Result	Cp	Tm	Result							
2023	3923	Chocolat de couverture au lait (41% cacao)	Milk chocolate (41% cocoa)	Pre-warmed Milk	- A	- A	- A	- A	-	0	0	-	-	-	NA												19	b
2023	3924	Pépites de chocolat au lait (30% cacao)	Milk chocolate (30% cocoa)	Pre-warmed Milk	+p	+p	+p	+p	+	26.97	66.35	+	+	+	PA	29.49	65.58	+	32.30	65.60	+	+	+	+	PA	PA	19	b
2023	3925	Pépites de chocolat au lait (30% cacao)	Milk chocolate (30% cocoa)	Pre-warmed Milk	st	st	st	st	-	0	0	-	-	-	NA												19	b
2023	3926	Chocolat blanc (34% cacao)	White chocolate (34% cocoa)	Pre-warmed Milk + Tween80	+p	+p	+p	+p	+	27.56	66.14	+	+	+	PA	27.00	66.05	+	31.76	65.41	+	+	+	+	PA	PA	19	b
2023	4295	Pépites de chocolat noir 45% cacao	Dark chocolate (45% cocoa)	Pre-warmed Milk	st	st	st	st	-	0	0	-	-	-	NA												19	b
2023	4296	Chocolat noir 65% (31% MG)	Dark chocolate (65% cocoa)	Pre-warmed Milk + Tween80	+p	+p	+p	+p	+	24.24	66.13	+	+	+	PA	24.03	66.11	+	24.55	66.27	+	+	+	+	PA	PA	19	b
2023	4297	Chocolat au lait 30% cacao	Milk chocolate (30% cocoa)	Pre-warmed Milk	-B	-B	-B	-B	-	0	0	-	-	-	NA												19	b
2023	4298	Chocolat au lait 34,1% cacao	Milk chocolate (34,1% cocoa)	Pre-warmed Milk	+M	+M	+M	+M	+	25.87	66.11	+	+	+	PA	24.34	66.27	+	25.97	66.16	+	+	+	+	PA	PA	19	b
2023	4303	Pépites de chocolat au lait	Milk chocolate sprinkles	Pre-warmed Milk	st	st	st	st	-	0	0	-	-	-	NA												19	b
2023	4305	Chocolat noir 20% cacao	Dark chocolate (20% cocoa)	Pre-warmed Milk	st	st	st	st	-	0	0	-	-	-	NA												19	b
2023	4807	Chocolat blanc (34% cacao, 42% MG)	White chocolate (34% cocoa, 42% Fat)	Pre-warmed Milk + Tween80	st	st	st	st	-	0	0	-	-	-	NA												19	b
2023	5079	Chocolat blanc (32,5% MG) (>20% cacao)	White chocolate	Pre-warmed Milk + Tween80	st	st	st	st	-	0	0	-	-	-	NA												19	b
2023	4945	Chocolat noir (65% cacao)	Black chocolate (65% cocoa)	Pre-warmed Milk + Tween80	+M	+M	+M	+M	+	28.26	66.15	+	+	+	PA	26.95	66.15	+	27.78	65.83	+	+	+	+	PA	PA	19	b
2023	4946	Chocolat au lait (41% cacao)	Milk chocolate (41% cocoa)	Pre-warmed Milk	+p	+p	+p	+p	+	26.48	66.10	+	+	+	PA	26.14	66.26	+	25.85	65.40	+	+	+	+	PA	PA	19	b
2023	3927	M&M's cacahuète	M&M's peanuts	Pre-warmed Milk + Tween80	st	st	st	st	-	0	0	-	-	-	NA												19	c
2023	3928	Mars	Mars	Pre-warmed Milk + Tween80	+p	+p	+p	+p	+	27.23	66.38	+	+	+	PA	30.13	65.70	+	31.68	65.65	+	+	+	+	PA	PA	19	c
2023	3929	Twix	Twix	Pre-warmed Milk + Tween80	st	st	st	st	-	0	0	-	-	-	NA												19	c
2023	3930	Maltesers	Maltesers	Pre-warmed Milk + Tween80	+p	+p	+p	+p	+	31.47	65.64	+	+	+	PA	33.00	65.80	+	34.49	65.50	+	+	+	+	PA	PA	19	c
2023	4194	Lion	Lion	Pre-warmed Milk + Tween80	+p	+p	+p	+p	+	29.99	66.16	+	+	+	PA	30.05	65.68	+	29.98	66.16	+	+	+	+	PA	PA	19	c
2023	4195	Kinder country	Kinder country	Pre-warmed Milk + Tween80	+p	+p	+p	+p	+	27.96	66.23	+	+	+	PA	27.85	66.50	+	27.78	66.28	+	+	+	+	PA	PA	19	c
2023	4196	Smarties	Smarties	Pre-warmed Milk + Tween80	+p	+p	+p	+p	+	28.28	66.10	+	+	+	PA	28.79	66.40	+	28.13	66.38	+	+	+	+	PA	PA	19	c
2023	4197	Daim	Daim	Pre-warmed Milk + Tween80	-B	-A	-C	-C	-	0	0	-	-	-	NA												19	c
2023	4198	Kitkat	Kitkat	Pre-warmed Milk + Tween80	st	st	st	st	-	0	0	-	-	-	NA												19	c

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					RVS broth		MKTTn broth		Result	Pre-warmed BPW or UHT skimmed milk 1/10 for 22 h at 37°C					Pre-warmed BPW or UHT skimmed milk 1/10 + 72 h at 5 ± 3°C														
					XLD	ASAP	XLD	ASAP		PCR (without PMAxx)			Confirmation final result	Final result 22 h	Agreement Ref/Alt	PCR-BPW 72 h (without PMAxx)			PCR-Lysate 72 h (without PMAxx)			Confirmation final result	Final result 72 h BPW	Final Result 72 h Lysate	Agreement 72 h BPW			Agreement 72 h Lysate	
										Cp	Tm	Result				Cp	Tm	Result	Cp	Tm	Result								
2023	4199	Reeses's	Reeses's	Pre-warmed Milk + Tween80	+p	+p	+p	+p	+	30.34	66.21	+	+	+	PA	30.64	65.79	+	30.18	66.19	+	+	+	+	PA	PA	19	c	
2023	4299	M&M's cacahuète (26% MG)	M&M's with peanuts (26% fat)	Pre-warmed Milk + Tween80	+p	+p	+p	+p	+	30.64	66.40	+	+	+	PA	29.22	66.16	+	30.42	66.37	+	+	+	+	PA	PA	19	c	
2023	4300	Twix (35% MG)	Twix	Pre-warmed Milk + Tween80	+p	+p	+p	+p	+	30.24	65.89	+	+	+	PA	30.25	66.22	+	30.74	66.21	+	+	+	+	PA	PA	19	c	
2023	4301	Bounty (26% MG)	Bounty	Pre-warmed Milk + Tween80	st	st	st	st	-	0	0	-	-	-	NA												19	c	
2023	4304	Kinder country	Kinder country	Pre-warmed Milk + Tween80	-B	-B	-A	-A	-	0	0	-	-	-	NA													19	c
2023	4457	Daim	Daim	Pre-warmed Milk + Tween80	+p	+p	+p	+p	+	25.64	66.24	+	+	+	PA	21.77	66.24	+	26.44	66.55	+	+	+	+	PA	PA	19	c	
2023	4458	KitKat	Kitkat	Pre-warmed Milk + Tween80	+M	+M	+M	+M	+	28.30	66.05	+	+	+	PA	25.36	65.39	+	28.93	66.16	+	+	+	+	PA	PA	19	c	
2023	4808	Lion	Lion	Pre-warmed Milk + Tween80	st	st	-A	-C	-	0	0	-	-	-	NA													19	c
2023	4809	Maltesers	Maltesers	Pre-warmed Milk + Tween80	st	st	st	st	-	0	0	-	-	-	NA													19	c
2023	5080	Reeses's	Reeses's	Pre-warmed Milk + Tween80	st	st	st	st	-	0	0	-	-	-	NA													19	c
2023	5081	Snickers	Snickers	Pre-warmed Milk + Tween80	st	st	-A	-A	-	0	0	-	-	-	NA													19	c

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					RVS broth		MKTn broth		Result	Pre-warmed BPW 1/10 for 20 h at 37°C					Pre-warmed BPW 1/10 20 h or 22 h at 37°C + 72 h at 5 ± 3°C														
					XLD	ASAP	XLD	ASAP		PCR (without PMAxx)			Confirmation final result	Final result 20 h	Agreement Ref/Alt	PCR-BPW 72 h (without PMAxx)			PCR-Lysate 72 h (without PMAxx)			Confirmation final result	Final result 72 h BPW	Final Result 72 h Lysate	Agreement 72 h BPW	Agreement 72 h Lysate			
										Cp	Tm	Result				Cp	Tm	Result	Cp	Tm	Result								
2023	3694	Poudre de blanc d'œuf	Egg white powder	Pre-warmed BPW	- A	+p	+M	+M	+	20.59	65.51	+	+	+	PA	20.57	65.65	+	29.27	65.97	+	+	+	+	PA	PA	20	a	
2023	3695	Poudre de blanc d'œuf	Egg white powder	Pre-warmed BPW	+p (H2S-)	+p	+p (H2S-)	+p	+	20.88	64.91	+	+	+	PA	22.20	65.79	+	29.79	65.90	+	+	+	+	PA	PA	20	a	
2023	3696	Poudre de jaune d'œuf	Egg yolk powder	Pre-warmed BPW	+p	+p	+p	+p	+	22.32	65.28	+	+	+	PA	21.52	64.97	+	30.51	66.18	+	+	+	+	PA	PA	20	a	
2023	3697	Poudre d'œuf entier	Egg powder	Pre-warmed BPW	+p	+p	+p	+p	+	21.21	65.26	+	+	+	PA	21.64	65.65	+	31.46	66.12	+	+	+	+	PA	PA	20	a	
2023	3698	Poudre d'œuf entier	Egg powder	Pre-warmed BPW	+M	+p	+p	+p	+	21.44	65.12	+	+	+	PA	22.02	65.22	+	30.03	65.28	+	+	+	+	PA	PA	20	a	
2023	4200	Albumine d'œuf	Egg albumin	Pre-warmed BPW	+p	+p	+p	+p	+	21.18	66.15	+	+	+	PA	21.43	66.24	+	20.91	65.91	+	+	+	+	PA	PA	20	a	
2023	4302	Poudre de jaune d'œuf	Egg yolk powder	Pre-warmed BPW	st	st	st	st	-	0	0	-	-	-	NA												20	a	
2023	4835	Coule de jaune d'œuf pasteurisé	Pasteurized egg yolk	Pre-warmed BPW	+p	+p	+p	+p	+	29.90	66.04	+	+	+	PA	29.11	65.72	+	32.73	66.20	+	+	+	+	PA	PA	20	a	
2023	4836	Coule de jaune d'œuf pasteurisé	Pasteurized egg yolk	Pre-warmed BPW	+p	+p	+p	+p	+	30.68	65.87	+	+	+	PA	29.64	65.42	+	33.09	65.90	+	+	+	+	PA	PA	20	a	
2023	4837	Coule d'œuf entier pasteurisé	Pasteurized liquid whole egg	Pre-warmed BPW	+p	+p	+p	+p	+	22.99	66.01	+	+	+	PA	23.16	65.74	+	31.02	66.20	+	+	+	+	PA	PA	20	a	
2023	4838	Coule d'œuf entier pasteurisé	Pasteurized liquid whole egg	Pre-warmed BPW	+p	+p	+p	+p	+	26.12	66.10	+	+	+	PA	25.82	65.56	+	32.71	66.08	+	+	+	+	PA	PA	20	a	
2023	5082	Coule de jaune d'œuf pasteurisé	Pasteurized egg yolk	Pre-warmed BPW	st	st	st	st	-	0	0	-	-	-	NA												20	a	
2023	5083	Coule de jaune d'œuf pasteurisé	Pasteurized egg yolk	Pre-warmed BPW	st	st	st	st	-	0	0	-	-	-	NA												20	a	
2023	5084	Coule d'œuf entier pasteurisé	Pasteurized liquid whole egg	Pre-warmed BPW	st	st	st	st	-	0	0	-	-	-	NA												20	a	
2023	5085	Coule d'œuf entier pasteurisé	Pasteurized liquid whole egg	Pre-warmed BPW	st	st	st	st	-	0	0	-	-	-	NA												20	a	
2023	4949	Poudre de blanc d'œuf	Egg white powder	Pre-warmed BPW	st	st	st	st	-	0	0	-	-	-	NA												20	a	
2023	4950	Poudre d'œuf entier	Whole egg powder	Pre-warmed BPW	st	st	st	st	-	0	0	-	-	-	NA												20	a	
2023	4951	Poudre d'œuf entier	Whole egg powder	Pre-warmed BPW	st	st	st	st	-	0	0	-	-	-	NA												20	a	
2023	4952	Albumine d'œuf	Egg albumin	Pre-warmed BPW	st	st	st	st	-	0	0	-	-	-	NA												20	a	
2023	4953	Poudre de jaune d'œuf	Egg yolk powder	Pre-warmed BPW	+p	+p	+p	+p	+	35.14	65.51	+	+	+	PA	28.50	65.44	+	34.52	65.26	+	+	+	+	PA	PA	20	a	
2023	3699	Maltodextrine	Maltodextrin	Pre-warmed BPW	+M (H2S-)	+M	+p (H2S-)	+p	+	19.65	65.57	+	+	+	PA	20.08	65.63	+	30.91	65.31	+	+	+	+	PA	PA	20	b	
2023	3700	Lactose	Lactose	Pre-warmed BPW	st	st	st	st	-	0	0	-	-	-	NA	0	0										20	b	
2023	3877	Poudre de babeurre	Buttermilk powder	Pre-warmed BPW	+p	+p	+p	+p	+	23.10	65.00	+	+	+	PA	25.55	65.85	+	23.27	65.19	+	+	+	+	PA	PA	20	b	
2023	3878	Lactose	Lactose	Pre-warmed BPW	+p	+p	+p	+p	+	20.99	65.99	+	+	+	PA	19.57	65.52	+	20.88	65.95	+	+	+	+	PA	PA	20	b	
2023	3879	Poudre de lait entier	Whole milk powder	Pre-warmed BPW + Tween80	+p	+p	+p	+p	+	0/0/0	0/0/0	-/-	+	-	ND	33.67/25.58/25.32	64.89/65.40/64.89	+/+	35.74/35.56/35.99	65.09/64.70/64.94	+/+	-	-	-	PPND	PPND	20	b	

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					RVS broth		MKTn broth		Result	Pre-warmed BPW 1/10 for 20 h at 37°C					Pre-warmed BPW 1/10 20 h or 22 h at 37°C + 72 h at 5 ± 3°C														
					XLD	ASAP	XLD	ASAP		PCR (without PMAxx)			Confirmation final result	Final result 20 h	Agreement Ref/Alt	PCR-BPW 72 h (without PMAxx)			PCR-Lysate 72 h (without PMAxx)			Confirmation final result	Final result 72 h BPW	Final Result 72 h Lysate	Agreement 72 h BPW	Agreement 72 h Lysate			
										Cp	Tm	Result				Cp	Tm	Result	Cp	Tm	Result								
2023	3880	Caséinate de calcium	Calcium caseinate	Pre-warmed BPW	+p	+p	+p	+p	+	21.97	65.26	+	+	+	PA	21.57	64.83	+	21.89	65.23	+	+	+	+	PA	PA	20	b	
2023	3881	Concentré de protéine de lactosérum	Whey protein concentrate	Pre-warmed BPW	- A	- A	- A	- A	-	30.74/30.98/32.77	65.39/65.50/65.64	+/+	-	-	PPNA	30.73/31.05/32.90	65.13/65.04/65.37	+/+	30.73/30.90/30.89	65.51/65.49/65.38	+/+	-	-	-	PPNA	PPNA	20	b	
2023	3882	Poudre de yaourt écrémé	Skimmed yoghurt powder	Pre-warmed BPW	+p	+p	+p	+p	+	24.68	65.41	+	+	+	PA	23.11	65.62	+	24.49	65.67	+	+	+	+	PA	PA	20	b	
2023	4201	Poudre de yaourt	Yoghurt powder	Pre-warmed BPW	+p	+p	+p	+p	+	21.22	65.76	+	+	+	PA	21.02	65.72	+	21.17	65.92	+	+	+	+	PA	PA	20	b	
2023	4202	Poudre de lait (26% MG)	Milk powder (26% fat)	Pre-warmed BPW + Tween80	st	st	st	st	-	0	0	-	-	-	NA												20	b	
2023	4312	Lactose	Lactose	Pre-warmed BPW	+p	+p	+p	+p	+	21.61	65.96	+	+	+	PA	21.22	65.24	+	21.60	65.77	+	+	+	+	PA	PA	20	b	
2023	4313	Protéine de lactosérum	Whey protein	Pre-warmed BPW	+p	+p	+p	+p	+	21.45	65.93	+	+	+	PA	23.09	65.73	+	21.75	65.94	+	+	+	+	PA	PA	20	b	
2023	4314	Maltodextrine	Maltodextrin	Pre-warmed BPW	+p	+p	+p	+p	+	20.20	66.30	+	+	+	PA	20.43	65.96	+	20.19	66.05	+	+	+	+	PA	PA	20	b	
2023	4459	Poudre de crème	Cream powder	Pre-warmed BPW	+p	+p	+p	+p	+	27.28	65.36	+	+	+	PA	27.80	65.57	+	27.69	65.67	+	+	+	+	PA	PA	20	b	
2023	4810	Poudre de crème	Cream powder	Pre-warmed BPW	st	st	st	st	-	0	0	-	-	-	NA												20	b	
2023	4811	Poudre de yaourt	Yoghurt powder	Pre-warmed BPW	st	st	st	st	-	0	0	-	-	-	NA												20	b	
2023	4812	Lait demi-écrémé en poudre	Half skimmed milk powder	Pre-warmed BPW	st	st	st	st	-	0	0	-	-	-	NA												20	b	
2023	4813	Maltodextrine	Maltodextrin	Pre-warmed BPW	st	st	st	st	-	0	0	-	-	-	NA												20	b	
2023	4814	Caséinate de calcium	Calcium caseinate	Pre-warmed BPW	st	st	st	st	-	0	0	-	-	-	NA												20	b	
2023	4815	Lactosérum	Whey	Pre-warmed BPW	st	st	st	st	-	0	0	-	-	-	NA												20	b	
2023	4816	Protéine de lactosérum	Whey protein	Pre-warmed BPW	st	st	st	st	-	0	0	-	-	-	NA												20	b	
2023	3871	Tapioca	Tapioca	Pre-warmed BPW	- A	- A	- A	- A	-	0	0	-	-	-	NA												20	c	
2023	3872	Beurre de cacahuète	Peanut butter	Pre-warmed BPW + Tween80	+M	+M	+M	+M	+	25.28	65.76	+	+	+	PA	25.61	65.56	+	25.49	66.07	+	+	+	+	PA	PA	20	c	
2023	3873	Amidon de maïs	Corn starch	Pre-warmed BPW	st	st	- A	- A	-	0	0	-	-	-	NA												20	c	
2023	3874	Amidon de riz	Rice starch	Pre-warmed BPW	st	st	st	st	-	0	0	-	-	-	NA												20	c	
2023	3875	Lécithine de soja	Soy lecithin	Pre-warmed BPW	+M	+M	+M	+M	+	26.61	65.22	+	+	+	PA	25.58	64.71	+	0/33.44	0/65.77	i/+	+	+	+	+	PA	PA	20	c
2023	3876	Pâte d'amande	Marzipan	Pre-warmed BPW	st	st	st	st	-	0	0	-	-	-	NA												20	c	
2023	4203	Lécithine de tournesol	Sunflower lecithin	Pre-warmed BPW	- B	- B	- A	- A	-	0	0	-	-	-	NA												20	c	
2023	4204	Dextrose	Dextrose	Pre-warmed BPW	st	st	st	st	-	0	0	-	-	-	NA												20	c	
2023	4205	Glucose déshydraté	Glucose	Pre-warmed BPW	st	st	st	st	-	0	0	-	-	-	NA												20	c	
2023	4206	Praliné amandes/noisettes	Almond and hazelnut praline	Pre-warmed BPW + Tween80	+p	+p	+p	+p	+	29.63	65.87	+	+	+	PA	29.17	66.21	+	29.90	66.17	+	+	+	+	PA	PA	20	c	
2023	4307	Tapioca fin	Tapioca	Pre-warmed BPW	- A	- A	- A	- A	-	0	0	-	-	-	NA												20	c	
2023	4308	Amidon de maïs	Corn starch	Pre-warmed BPW	+p	+p	+p	+p	+	22.02	66.14	+	+	+	PA	21.77	66.10	+	22.28	66.27	+	+	+	+	PA	PA	20	c	
2023	4309	Amidon de riz	Rice starch	Pre-warmed BPW	+p	+p	+p	+p	+	20.45	66.01	+	+	+	PA	20.13	65.75	+	20.63	65.84	+	+	+	+	PA	PA	20	c	
2023	4310	Pâte d'amande	Marzipan	Pre-warmed BPW	st	st	st	st	-	0	0	-	-	-	NA												20	c	
2023	4311	Lécithine de soja	Soy lecithin	Pre-warmed BPW	+M	+M	+M	+M	+	0/0/0	0/0/0	-/-	+	-	ND	0/0/0	0/0/0	-/-	0/0/0	0/0/0	-/-	+	-	-	ND	ND	20	c	
2023	4460	Lécithine de soja	Soya lecithin	Pre-warmed BPW	st	st	st	st	-	0	0	-	-	-	NA												20	c	
2023	4461	Dextrose	Dextrose	Pre-warmed BPW	st	st	st	st	-	0	0	-	-	-	NA												20	c	
2023	4462	Glucose	Glucose	Pre-warmed BPW	st	st	st	st	-	0	0	-	-	-	NA												20	c	
2023	4947	Pâte d'amande	Marzipan	Pre-warmed BPW	st	st	st	st	-	0	0	-	-	-	NA												20	c	
2023	4948	Lécithine de tournesol	Sunflower lecithin	Pre-warmed BPW	+M	+p	+M	+M	+	25.16	65.55	+	+	+	PA	27.09	65.56	+	25.41	65.63	+	+	+	+	PA	PA	20	c	
2023	4954	Dextrose	Dextrose	Pre-warmed BPW	+p	+p	+p	+p	+	19.66	65.18	+	+	+	PA	19.55	65.86	+	19.70	65.12	+	+	+	+	PA	PA	20	c	
2023	4955	Glucose	Glucose	Pre-warmed BPW	+p	+p	+p	+p	+	20.07	65.23	+	+	+	PA	19.87	66.30	+	20.25	65.97	+	+	+	+	PA	PA	20	c	

INGREDIENTS (375 g test portion)																												
Specific protocol ④ without BACTVIAB PMaxx protocol - Extension No 10 (2023)																												
Year of analysis	Sample N°	Product (French name)	Product	Reference enrichment broth	Reference method: ISO 6579-1*				Alternative method: GENE-UP <i>Salmonella</i>																		Category	Type
					RVS broth		MKTn broth		Result	Pre-warmed BPW 1/10 for 20 h at 37°C					Pre-warmed BPW 1/10 20 h or 22 h at 37°C + 72 h at 5 ± 3°C													
					XLD	ASAP	XLD	ASAP		PCR (without PMAxx)			Confirmation final result	Final result 20 h	Agreement Ref/Alt	PCR-BPW 72 h (without PMAxx)			PCR-Lysate 72 h (without PMAxx)			Confirmation final result	Final result 72 h BPW	Final Result 72 h Lysate	Agreement 72 h BPW	Agreement 72 h Lysate		
										Cp	Tm	Result				Cp	Tm	Result	Cp	Tm	Result							
2023	4956	Tapioca	Tapioca	Pre-warmed BPW	+M	+M	+M	+M	+	23.34	65.41	+	+	+	PA	23.74	65.69	+	23.26	66.29	+	+	+	+	PA	PA	20	c
2023	4957	Amidon de maïs	Corn starch	Pre-warmed BPW	+p	+p	+p	+p	+	22.69	65.63	+	+	+	PA	22.75	65.18	+	22.44	65.07	+	+	+	+	PA	PA	20	c

CHOCOLATE AND CONFECTIONARIES (375 g test portion)																														
Specific protocol ④ without BACTVIAB PMaxx protocol - Extension No 10(2023)																														
Year of analysis	Sample N°	Product (French name)	Product	Reference enrichment broth	Reference method: ISO 6579-1*				Alternative method: GENE-UP Salmonella																		Category	Type		
					RVS broth		MKTn broth		Result	Pre-warmed BPW or UHT skimmed milk 1/10 for 22 h at 37°C					Pre-warmed BPW or UHT skimmed milk 1/10 for 22 h at 37°C + 72 h at 5 ± 3°C															
					XLD	ASAP	XLD	ASAP		PCR (with PMAxx)			Confirmation final result	Final result 22 h	Agreement	PCR-BPW 72 h (with PMAxx)			PCR-Lysate 72 h (with PMAxx)			Confirmation final result	Final result 72 h BPW	Final result 72 h Lysate	Agreement 72 h BPW	Agreement 72 h Lysate				
										Cp	Tm	Result				Cp	Tm	Result	Cp	Tm	Result									
2023	3686	Poudre de cacao alcalisé	Alkalized cocoa powder	Pre-warmed Milk	+p	+p	+p	+p	+	29.19	65.52	+	+	+	PA	32.77	65.49	+	26.76	66.15	+	+	+	+	+	PA	PA	19	a	
2023	3687	Poudre de cacao alcalisé	Fat reduced alkalized cocoa powder	Pre-warmed Milk	+p (H2S-)	+p	+p (H2S-)	+p	+	28.98	65.51	+	+	+	PA	27.05	65.44	+	23.90	65.91	+	+	+	+	+	PA	PA	19	a	
2023	3688	Masse de cacao	Chocolate mass	Pre-warmed Milk	+p	+p	+p	+p	+	35.48	65.85	+	+	+	PA	35.05	65.79	+	35.66	65.55	+	+	+	+	+	PA	PA	19	a	
2023	3689	Beurre de cacao (non désodorisé)	Cocoa butter (non-deodorised)	Pre-warmed BPW + Tween80	+p	+p	+p	+p	+	27.65	66.06	+	+	+	PA	27.98	66.29	+	25.46	66.16	+	+	+	+	+	PA	PA	19	a	
2023	3690	Fève de cacao	Cocoa beans	Pre-warmed BPW	st	st	st	st	-	0	0	-	-	-	NA													19	a	
2023	3883	Beurre de cacao	Cocoa butter	Pre-warmed Milk + Tween80	st	st	st	st	-	0	0	-	-	-	NA	0	0											19	a	
2023	3884	Masse de cacao	Cocoa mass	Pre-warmed Milk	+p	+p	+p	+p	+	26.62	66.08	+	+	+	PA	27.00	66.26	+	28.80	65.51	+	+	+	+	+	PA	PA	19	a	
2023	3885	Liqueur de cacao	Cocoa liquor	Pre-warmed Milk + Tween80	+p	+p	+p	+p	+	26.25	65.89	+	+	+	PA	26.97	66.19	+	27.93	65.64	+	+	+	+	+	PA	PA	19	a	
2023	4192	Fèves de cacao	Cocoa beans	Pre-warmed Milk	st	st	st	st	-	0	0	-	-	-	NA													19	a	
2023	4193	Liqueur de cacao	Cocoa liquor	Pre-warmed Milk + Tween80	+p	+p	+p	+p	+	26.46	66.05	+	+	+	PA	29.95	66.13	+	31.48	66.29	+	+	+	+	+	PA	PA	19	a	
2023	4292	Masse de cacao	Cocoa mass	Pre-warmed Milk	+p	+p	+p	+p	+	25.44	66.73	+	+	+	PA	26.59	66.97	+	27.64	66.59	+	+	+	+	+	PA	PA	19	a	
2023	4293	Beurre de cacao	Cocoa butter	Pre-warmed BPW + Tween80	+p (H2S-)	+p (H2S-)	+p (H2S-)	+p (H2S-)	+	28.03	66.56	+	+	+	PA	28.47	66.67	+	31.00	66.28	+	+	+	+	+	PA	PA	19	a	
2023	4294	Poudre de cacao	Cocoa powder	Pre-warmed Milk	st	st	st	st	-	0	0	-	-	-	NA													19	a	
2023	4306	Poudre de cacao	Cocoa powder	Pre-warmed Milk	st	st	st	st	-	0	0	-	-	-	NA													19	a	
2023	5075	Liqueur de cacao	Cocoa liquor	Pre-warmed Milk + Tween80	st	st	st	st	-	0	0	-	-	-	NA													19	a	
2023	5076	Liqueur de cacao	Cocoa liquor	Pre-warmed Milk + Tween80	st	st	st	st	-	0	0	-	-	-	NA													19	a	
2023	5077	Beurre de cacao	Cocoa butter	Pre-warmed Milk + Tween80	st	st	st	st	-	0	0	-	-	-	NA													19	a	
2023	5078	Masse de cacao	Cocoa mass	Pre-warmed Milk	st	st	st	st	-	0	0	-	-	-	NA													19	a	
2023	4943	Fève de cacao	Cocoa beans	Pre-warmed Milk	st	st	st	st	-	0	0	-	-	-	NA													19	a	
2023	4944	Liqueur de cacao	Cocoa liquor	Pre-warmed Milk + Tween80	+p	+p	+p	+p	+	24.93	66.21	+	+	+	PA	24.67	66.59	+	29.15	66.15	+	+	+	+	+	PA	PA	19	a	
2023	3691	Chocolat blanc	White chocolate	Pre-warmed Milk + Tween80	+p	+p	+p	+p	+	35.74	65.66	+	+	+	PA	0/0/0	0/0/0	-/-/	0/0/0	0/0/0	-/-/	+	-	-	+	+	ND	ND	19	b
2023	3692	Chocolat noir	Dark chocolate	Pre-warmed Milk	+p	+p	+p	+p	+	29.02	65.86	+	+	+	PA	29.65	66.37	+	26.55	65.98	+	+	+	+	+	+	PA	PA	19	b
2023	3693	Chocolat au lait	Milk chocolate	Pre-warmed Milk	+p	+p	+p	+p	+	0/0/0	0/0/0	-/-/	+	-	ND	0/0/35,20	0/0/65,45	-/-/	35.70	65.76	+	+	-	+	+	+	ND	PA	19	b
2023	3920	Chocolat noir force noir (50% cacao)	Dark chocolate (50% cocoa)	Pre-warmed Milk	+p	+p	+p	+p	+	27.55	66.33	+	+	+	PA	27.84	66.66	+	28.94	65.25	+	+	+	+	+	+	PA	PA	19	b
2023	3921	Pépites de chocolat noir (48% cacao)	Dark chocolate (48% cocoa)	Pre-warmed Milk	st	st	st	st	-	0	0	-	-	-	NA	0	0	-	0	0	-								19	b
2023	3922	Chunks de chocolat noir (48% cacao)	Dark chocolate (48% cocoa)	Pre-warmed Milk	+p	+p	+p	+p	+	30.61	65.92	+	+	+	PA	27.74	66.51	+	32.63	65.60	+	+	+	+	+	+	PA	PA	19	b
2023	3923	Chocolat de couverture au lait (41% cacao)	Milk chocolate (41% cocoa)	Pre-warmed Milk	- A	- A	- A	- A	-	0	0	-	-	-	NA	0	0	-	0	0	-								19	b

\* Analyses performed according to the COFRAC accreditation



CHOCOLATE AND CONFECTIONARIES (375 g test portion)																												
Specific protocol ④ without BACTVIAB PMaxx protocol - Extension No 10(2023)																												
Year of analysis	Sample N°	Product (French name)	Product	Reference enrichment broth	Reference method: ISO 6579-1*				Alternative method: GENE-UP Salmonella																		Category	Type
					RVS broth		MKTTn broth		Result	Pre-warmed BPW or UHT skimmed milk 1/10 for 22 h at 37°C					Pre-warmed BPW or UHT skimmed milk 1/10 for 22 h at 37°C + 72 h at 5 ± 3°C													
					XLD	ASAP	XLD	ASAP		PCR (with PMAxx)			Confirmation final result	Final result 22 h	Agreement	PCR-BPW 72 h (with PMAxx)			PCR-Lysate 72 h (with PMAxx)			Confirmation final result	Final result 72 h BPW	Final result 72 h Lysate	Agreement 72 h BPW	Agreement 72 h Lysate		
										Cp	Tm	Result				Cp	Tm	Result	Cp	Tm	Result							
2023	3924	Pépites de chocolat au lait (30% cacao)	Milk chocolate (30% cocoa)	Pre-warmed Milk	+p	+p	+p	+p	+	31.04	65.83	+	+	+	PA	29.49	65.58	+	32.30	65.60	+	+	+	+	PA	PA	19	b
2023	3925	Pépites de chocolat au lait (30% cacao)	Milk chocolate (30% cocoa)	Pre-warmed Milk	st	st	st	st	-	0	0	-	-	-	NA	0	0	-	0	0	-						19	b
2023	3926	Chocolat blanc (34% cacao)	White chocolate	Pre-warmed Milk + Tween80	+p	+p	+p	+p	+	30.09	65.64	+	+	+	PA	27.00	66.05	+	31.76	65.41	+	+	+	+	PA	PA	19	b
2023	4295	Pépites de chocolat noir 45% cacao	Dark chocolate (45% cocoa)	Pre-warmed Milk	st	st	st	st	-	0	0	-	-	-	NA												19	b
2023	4296	Chocolat noir 65% (31% MG)	Dark chocolate (65% cocoa)	Pre-warmed Milk + Tween80	+p	+p	+p	+p	+	25.06	66.23	+	+	+	PA	25.76	66.08	+	29.42	65.96	+	+	+	+	PA	PA	19	b
2023	4297	Chocolat au lait 30% cacao	Milk chocolate (30% cocoa)	Pre-warmed Milk	-B	-B	-B	-B	-	0	0	-	-	-	NA												19	b
2023	4298	Chocolat au lait 34,1% cacao	Milk chocolate (34,1% cocoa)	Pre-warmed Milk	+M	+M	+M	+M	+	28.03	65.88	+	+	+	PA	27.29	66.70	+	30.53	66.04	+	+	+	+	PA	PA	19	b
2023	4303	Pepite de chocolat au lait	Milk chocolate	Pre-warmed Milk	st	st	st	st	-	0	0	-	-	-	NA												19	b
2023	4305	Chocolat noir 20% cacao	Dark chocolate (20% cocoa)	Pre-warmed Milk	st	st	st	st	-	0	0	-	-	-	NA												19	b
2023	4807	Chocolat blanc (34% cacao) (42% MG)	White chocolate (34% cocoa, 42% Fat)	Pre-warmed Milk + Tween80	st	st	st	st	-	0	0	-	-	-	NA												19	b
2023	5079	Chocolat blanc (32,5% MG) (>20% cacao)	White chocolate	Pre-warmed Milk + Tween80	st	st	st	st	-	0	0	-	-	-	NA												19	b
2023	4945	Chocolat noir (65% cacao)	Black chocolate (65% cocoa)	Pre-warmed Milk + Tween80	+M	+M	+M	+M	+	28.68	66.21	+	+	+	PA	24.74	66.27	+	32.90	65.52	+	+	+	+	PA	PA	19	b
2023	4946	Chocolat au lait (41% cacao)	Milk chocolate (41% cocoa)	Pre-warmed Milk	+p	+p	+p	+p	+	26.64	66.15	+	+	+	PA	24.87	66.45	+	29.85	66.12	+	+	+	+	PA	PA	19	b
2023	3927	M&M's cacahuète	M&M's peanuts	Pre-warmed Milk + Tween80	st	st	st	st	-	0	0	-	-	-	NA												19	c
2023	3928	Mars	Mars	Pre-warmed Milk + Tween80	+p	+p	+p	+p	+	29.98	65.74	+	+	+	PA	30.13	65.70	+	31.68	65.65	+	+	+	+	PA	PA	19	c
2023	3929	Twix	Twix	Pre-warmed Milk + Tween80	st	st	st	st	-	0	0	-	-	-	NA												19	c
2023	3930	Maltesers	Maltesers	Pre-warmed Milk + Tween80	+p	+p	+p	+p	+	33.53	65.47	+	+	+	PA	33.00	65.80	+	34.49	65.50	+	+	+	+	PA	PA	19	c
2023	4194	Lion	Lion	Pre-warmed Milk + Tween80	+p	+p	+p	+p	+	29.74	66.04	+	+	+	PA	31.73	65.86	+	33.51	65.35	+	+	+	+	PA	PA	19	c
2023	4195	Kinder kountry	Kinder kountry	Pre-warmed Milk + Tween80	+p	+p	+p	+p	+	29.14	66.11	+	+	+	PA	29.46	66.56	+	32.51	66.10	+	+	+	+	PA	PA	19	c
2023	4196	Smarties	Smarties	Pre-warmed Milk + Tween80	+p	+p	+p	+p	+	30.18	66.07	+	+	+	PA	31.28	65.97	+	33.14	65.50	+	+	+	+	PA	PA	19	c
2023	4197	Daim	Daim	Pre-warmed Milk + Tween80	-B	-A	-C	-C	-	0	0	-	-	-	NA												19	c
2023	4198	Kitkat	Kitkat	Pre-warmed Milk + Tween80	st	st	st	st	-	0	0	-	-	-	NA												19	c
2023	4199	Reeses's	Reeses's	Pre-warmed Milk + Tween80	+p	+p	+p	+p	+	31.88	65.68	+	+	+	PA	34.60	65.98	+	34.12	65.24	+	+	+	+	PA	PA	19	c
2023	4299	M&M's cacahuète (26% MG)	M&M's peanuts	Pre-warmed Milk + Tween80	+p	+p	+p	+p	+	32.25	66.23	+	+	+	PA	31.47	66.30	+	34.21	65.67	+	+	+	+	PA	PA	19	c

CHOCOLATE AND CONFECTIONARIES (375 g test portion)																													
Specific protocol ④ without BACTVIAB PMaxx protocol - Extension No 10(2023)																													
Year of analysis	Sample N°	Product (French name)	Product	Reference enrichment broth	Reference method: ISO 6579-1*					Alternative method: GENE-UP Salmonella																		Category	Type
					RVS broth		MKTTn broth		Result	Pre-warmed BPW or UHT skimmed milk 1/10 for 22 h at 37°C					Pre-warmed BPW or UHT skimmed milk 1/10 for 22 h at 37°C + 72 h at 5 ± 3°C														
					XLD	ASAP	XLD	ASAP		PCR (with PMAxx)			Confirmation final result	Final result 22 h	Agreement	PCR-BPW 72 h (with PMAxx)			PCR-Lysate 72 h (with PMAxx)			Confirmation final result	Final result 72 h BPW	Final result 72 h Lysate	Agreement 72 h BPW	Agreement 72 h Lysate			
										Cp	Tm	Result				Cp	Tm	Result	Cp	Tm	Result								
2023	4300	Twix (35% MG)	Twix	Pre-warmed Milk + Tween80	+p	+p	+p	+p	+	33.12	65.85	+	+	+	PA	32.68	66.05	+	33.93	65.85	+	+	+	+	+	PA	PA	19	c
2023	4301	Bounty (26% MG)	Bounty	Pre-warmed Milk + Tween80	st	st	st	st	-	0	0	-	-	-	NA													19	c
2023	4304	Kinder country	Kinder country	Pre-warmed Milk + Tween80	-B	-B	-A	-A	-	0	0	-	-	-	NA													19	c
2023	4457	Daim	Daim	Pre-warmed Milk + Tween80	+p	+p	+p	+p	+	26.28	65.94	+	+	+	PA	23.83	66.49	+	28.42	66.30	+	+	+	+	PA	PA	19	c	
2023	4458	KitKat	Kitkat	Pre-warmed Milk + Tween80	+M	+M	+M	+M	+	28.75	65.78	+	+	+	PA	26.32	65.92	+	29.47	65.72	+	+	+	+	PA	PA	19	c	
2023	4808	Lion	Lion	Pre-warmed Milk + Tween80	st	st	-A	-C	-	0	0	-	-	-	NA													19	c
2023	4809	Maltesers	Maltsefers	Pre-warmed Milk + Tween80	st	st	st	st	-	0	0	-	-	-	NA													19	c
2023	5080	Reeses's	Reeses's	Pre-warmed Milk + Tween80	st	st	st	st	-	0	0	-	-	-	NA													19	c
2023	5081	Snikers	Snikers	Pre-warmed Milk + Tween80	st	st	-A	-A	-	0	0	-	-	-	NA													19	c







READY TO EAT AND READY TO REHEAT (25 test portion)- General protocol - Extension No 2																																	
Sample N°	Product	ISO 6579*	PCR Result	Alternative method: GENE UP Salmonella BPW for 18h at 37°C																							Confirmation result	Final result 18h	Agreement 18h	Category	Type		
				Direct streaking											Subculture SX2																		
				ChromID Salmonella				XLD				ASAP			6h at 41,5°C±1,0°C						24h at 41,5°C±1,0°C												
				Typical colonies	Before purif		Final result	Agreement	Typical colonies	Before purif	Final result	Agreement	Typical colonies	Before purif			Final result	Agreement	Typical colonies	Before purif	After purif			Typical colonies	Before purif	After purif							
					Latex	Api								Latex	Api	Agg					Latex	Api	Agg			Latex						Api	Latex
6808	Smoked salmon	+	+	+1/2	+	+	+	PA	+M	+	+	PA	+M	+	+	+	+	+	PA	+p	+	+	+	+	+	+	+	+	+	+	PA	1	c
6809	Smoked trout	-	-	-	-	-	-	NA	-	-	-	NA	-	-	-	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	NA	1	c	
6810	Smoked duck	-	-	st	-	-	-	NA	st	-	-	NA	st	-	-	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	NA	1	c	
6811	Smoked duck	+	+	+M	+	+	+	PA	+M	+	+	PA	+p	+	+	+	+	+	PA	+p	+	+	+	+	+	+	+	+	+	PA	1	c	
6812	Smoked duck	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	PA	+p	+	+	+	+	+	+	+	+	+	PA	1	c	
6813	Smoked duck	-	-	-	-	-	-	NA	st	-	-	NA	st	-	-	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	NA	1	c	
6814	Ready to eat poultry meat	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	PA	+p	+	+	+	+	+	+	+	+	+	PA	1	c	
6815	Ready to eat poultry meat	+	+	+M	+	+	+	PA	+M	+	+	PA	+M	+	+	+	+	+	PA	+p	+	+	+	+	+	+	+	+	+	PA	1	c	
6816	Ready to eat poultry meat	+	+	+M	+	+	+	PA	+M	+	+	PA	+M	+	+	+	+	+	PA	+p	+	+	+	+	+	+	+	+	+	PA	1	c	
6817	Ready to eat poultry meat	+	+	+M	+	+	+	PA	+M	+	+	PA	+M	+	+	+	+	+	PA	+p	+	+	+	+	+	+	+	+	+	PA	1	c	
7198	Smoked trout	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	PA	+p	+	+	+	+	+	+	+	+	+	PA	1	c	
7199	Smoked mackerel	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	PA	+p	+	+	+	+	+	+	+	+	+	PA	1	c	
7214	Ready to eat food	-	-	st	-	-	-	NA	st	-	-	NA	st	-	-	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	NA	1	c	
7215	Smoked trout	-	-	-	-	-	-	NA	-	-	-	NA	-	-	-	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	NA	1	c	
7216	Smoked duck	-	-	st	-	-	-	NA	st	-	-	NA	st	-	-	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	NA	1	c	
7217	Smoked duck	-	-	-	-	-	-	NA	-	-	-	NA	-	-	-	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	NA	1	c	
7218	Smoked mackerel	-	-	-	-	-	-	NA	-	-	-	NA	-	-	-	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	NA	1	c	
7219	Smoked herring	-	-	-	-	-	-	NA	-	-	-	NA	-	-	-	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	NA	1	c	









DAIRY PRODUCTS (25g test portion) – General protocol - Extension No 2

Alternative method: GENE-UP *Salmonella*

BPW for 18h at 37°C

Confirmation

Sample N°	Product	ISO 6579* Result	PCR Result	Confirmation																								Confirmation final result	Final result 18h	Agreement 18h	Category	Type
				Direct streaking												Subculture SX2																
				ChromID Salmonella				XLD				ASAP				6h at 41,5°C±1,0°C					24h at 41,5°C±1,0°C											
				Typical colonies	Before purif		Final result	Agreement	Typical colonies	Before purif	Final result	Agreement	Typical colonies	Before purif			Final result	Agreement	Typical colonies	Before purif	After purif		Typical colonies	Before purif	After purif							
					Latex	Api								Latex	Api	Agg					Latex	Api			Latex	Api	Latex					
4264	Skimmed milk powder	-	-	st			-	NA	st			-	NA	st													-	-	NA	3	c	
4687	Milk proteins	-	-	st			-	NA	st			-	NA	st														-	-	NA	3	c
4688	Lactoserum	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	PA	+p	+	+				+	+	PA	3	c	
4689	Skimmed milk powder	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	PA	+p	+	+				+	+	PA	3	c	
4690	Skimmed milk powder	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	PA	+p	+	+				+	+	PA	3	c	
4691	Skimmed milk powder	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	PA	+p	+	+				+	+	PA	3	c	
4692	Skimmed milk powder	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	PA	+p	+	+				+	+	PA	3	c	
4693	Skimmed milk powder	-	-	st			-	NA	st			-	NA	st													-	-	NA	3	c	
4987	Maltodextrin	-	-	st			-	NA	st			-	NA	st													-	-	NA	3	c	
4988	Milk proteins	-	-	st			-	NA	st			-	NA	st													-	-	NA	3	c	
4989	Caseinate	-	-	st			-	NA	st			-	NA	st													-	-	NA	3	c	
4990	Lactoserum	-	-	st			-	NA	st			-	NA	st													-	-	NA	3	c	
5216	Skimmed milk powder	-	-	st			-	NA	st			-	NA	st													-	-	NA	3	c	
5217	Semi-skimmed milk powder	-	-	st			-	NA	st			-	NA	st													-	-	NA	3	c	
5218	Skimmed milk powder	-	-	st			-	NA	st			-	NA	st													-	-	NA	3	c	
5219	Milk powder	-	-	st			-	NA	st			-	NA	st													-	-	NA	3	c	
5220	Semi-skimmed milk powder	-	-	st			-	NA	st			-	NA	st													-	-	NA	3	c	
6891	Milk powder	-	-	st			-	NA	st			-	NA	st													-	-	NA	3	c	
6892	Milk powder	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	PA	+p	+	+				+	+	PA	3	c	
6893	Milk powder	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	PA	+p	+	+				+	+	PA	3	c	
6894	Milk powder	+	+	+p	+	+	+	PA	+M	+	+	PA	+M	+	+	+	+	+	+	PA	+p	+	+				+	+	PA	3	c	
6895	Milk powder	-	-	st			-	NA	st			-	NA	st													-	-	NA	3	c	
6896	Milk powder	-	-	st			-	NA	st			-	NA	st													-	-	NA	3	c	
6897	Lactoserum	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	PA	+p	+	+				+	+	PA	3	c	
6898	Lactoserum	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	PA	+p	+	+				+	+	PA	3	c	
6899	Maltodextrin	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	PA	+p	+	+				+	+	PA	3	c	
6900	Lactoserum	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	PA	+p	+	+				+	+	PA	3	c	
6901	Lactoprotein	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	PA	+p	+	+				+	+	PA	3	c	
6902	Caseinate	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	PA	+p	+	+				+	+	PA	3	c	
7056	Milk powder	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	PA	+p	+	+				+	+	PA	3	c	
7057	Milk powder	-	-	st			-	NA	st			-	NA	st													-	-	NA	3	c	
7058	Maltodextrin	-	-	st			-	NA	st			-	NA	st													-	-	NA	3	c	
7059	Caseinate	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	PA	+p	+	+				+	+	PA	3	c	
7060	Lactose	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	PA	+p	+	+				+	+	PA	3	c	
7061	Lactoserum	-	-	st			-	NA	st			-	NA	st													-	-	NA	3	c	
7062	Caseine	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	PA	+p	+	+				+	+	PA	3	c	
7211	Milk powder	-	-	st			-	NA	st			-	NA	st													-	-	NA	3	c	
7212	Milk powder	-	-	st			-	NA	st			-	NA	st													-	-	NA	3	c	
7213	Milk powder	-	-	st			-	NA	st			-	NA	st													-	-	NA	3	c	
8075	Milk powder	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	PA	+p	+	+				+	+	PA	3	c	
8076	Milk powder	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	PA	+p	+	+				+	+	PA	3	c	

VEGETABLE AND SEAFOOD SAMPLES (25g test portion) – General protocol - Extension No 2

Alternative method: GENE-UP *Salmonella*

BPW for 18h at 37°C

Sample N°	Product	ISO 6579* Result	PCR Result	Confirmation																												Confirmation final result	Final result 18h	Agreement 18h	Category	Type						
				Direct streaking														Subculture SX2																								
				ChromID Salmonella							XLD				ASAP					XLD				ASAP					XLD								ASAP					
				Typical colonies	Before purif		Final result	Agreement	Typical colonies	Before purif	Final result	Agreement	Typical colonies	Before purif		After purif			Final result	Agreement	Typical colonies	Before purif	Typical colonies	Before purif		After purif			Typical colonies	Before purif	Typical colonies						Before purif		After purif			
					Latex	Api								Latex	Api	Latex	Api	Agg						Latex	Api	Latex	Api	Latex									Api	Latex	Api	Latex	Api	Latex
1925	Seafood	-	-	-	-	NA	-	NA	-	NA	-	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	4	a						
1935	Salmon terrine	-	-	st	-	NA	st	-	NA	st	-	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	4	a						
2068	Frozen fish fillet	-	-	st	-	NA	-	-	NA	st	-	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	4	a						
2069	Frozen fish fillet	-	-	-	-	NA	-	-	NA	-	-	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	4	a					
2070	Frozen fish fillet	-	-	-	-	NA	-	-	NA	-	-	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	4	a					
2071	Surimi	-	-	st	-	NA	st	-	NA	st	-	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	4	a					
2072	Surimi	-	-	-	-	NA	-	-	NA	-	-	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	4	a				
2073	Shrimp	-	-	st	-	NA	st	-	NA	st	-	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	4	a				
2074	Shrimp	-	-	-	-	NA	-	-	NA	-	-	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	4	a			
2075	Seafood	-	-	-	-	NA	+md/-	-	NA	-	-	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	4	a			
2076	Seafood terrine	-	-	st	-	NA	st	-	NA	st	-	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	4	a			
2320	Shrimp	-	-	-	-	NA	-	-	NA	-	-	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	4	a			
2970	Seafood terrine	+	+	+p	+	PA	+p	+	PA	+p	+	+	+	PA	+p	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	PA	4	a			
2971	Seafood terrine	+	+	+p	+	PA	+p	+	PA	+p	+	+	+	PA	+p	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	PA	4	a		
2972	Flaked crab	+	+	+p	+	PA	+p	+	PA	+p	+	+	+	PA	+p	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	PA	4	a		
2973	Flaked crab	+	+	+p	+	PA	+p	+	PA	+p	+	+	+	PA	+p	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	PA	4	a		
2974	Fish fillet	+	+	+m	+	PA	+md/+	+	PA	+m	-	-	-	PPND	+p	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	PA	4	a		
2975	Fish fillet	+	+	+M	+	PA	+1/2	+	PA	+1/2	+	+	+	PA	+M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	PA	4	a		
2976	Surimi	+	+	+p	+	PA	+p	+	PA	+p	+	+	+	PA	+p	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	PA	4	a		
4239	Fish fillet	+	+	+m	+	PA	+1/2d	+	PA	+m	+	+	+	PA	+M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	PA	4	a		
4240	Fish fillet	+	+	+md	+d	PPND	- (Vibrio fluvialis)	+1/2	PA	+md	-	- (Vibrio fluvialis)	-	PPND	+p	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	PA	4	a		
4241	Fish fillet	+	+	+md	+d	PPND	- (Pasteurella multocida)	+m	PA	+md	-	- (Vibrio fluvialis)	-	PPND	+M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	PA	4	a	
4242	Fish fillet	-	-	-	-	NA	+m/-	-	NA	+md	-	- (Vibrio fluvialis)	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	4	a		
4243	Fish fillet	+	+	+m	+	PA	+M	+	PA	+1/2	+	+	+	PA	+M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	PA	4	a	
1917	Sucrine	-	-	-	-	NA	-	-	NA	-	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	4	b		
1919	Mâche	-	-	-	-	NA	-	-	NA	+1/2d	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	4	b		
1921	Cress	-	-	+md	-	NA	-	-	NA	+m/-	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	4	b		
1922	Baby leaves	-	-	+md(2)	-	NA	-	-	NA	+md	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	4	b		
2060	Sucrine	-	-	st	-	NA	st	-	NA	st	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	4	b		
2066	Baby leaves	-	-	-	-	NA	-	-	NA	-	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	4	b	
2067	Baby leaves	-	-	-	-	NA	-	-	NA	-	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	4	b	
2339	Baby leaves	-	-	-	-	NA	-	-	NA	-	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	4	b	
2981	Baby leaves	+	+	+m	+d	PPND	- (Shigella)	+m/+	PA	+m	+	+	+	PA	+M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	PA	4	b	
2982	Baby leaves	+	+	+M	+d	PA	+1/2	+	PA	+1/2	+	+	+	PA	+M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	PA	4	b
2983	Baby leaves	+	+	+m/+	+	PA	+m	+	PA	+1/2	+	+	+	PA	+M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	PA	4	b
2984	Baby leaves	+	+	+m	+	PPND	- (Shigella)	+m/-	PPND	+md	+	- (Aeromonas hydrophila)	-	PPND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PA	4	b	

\* Analyses performed according to the COFRAC accreditation

VEGETABLE AND SEAFOOD SAMPLES (25g test portion) – General protocol - Extension No 2

Alternative method: GENE-UP *Salmonella*

BPW for 18h at 37°C

Sample N°	Product	ISO 6579* Result	Confirmation																											Confirmation final result	Final result 18h	Agreement 18h	Category	Type																				
			Direct streaking														Subculture SX2																																					
																	6h at 41,5°C±1,0°C					24h at 41,5°C±1,0°C																																
			ChromID Salmonella				XLD				ASAP						XLD		ASAP			XLD		ASAP																														
			Typical colonies	Before purif		Final result	Agreement	Typical colonies	Before purif	Final result	Agreement	Typical colonies	Before purif		After purif		Final result	Agreement	Typical colonies	Before purif	Typical colonies	Before purif		After purif		Typical colonies	Before purif	Typical colonies	Before purif						After purif																			
Latex	Api	Latex		Api	Latex								Api	Agg	Latex	Api						Latex	Api	Latex	Api				Latex	Api	Latex	Api	Latex	Api																				
2985	Baby leaves	+	+	+m	+	+	+	PA	+m	+	+	PA	+m	+	+	+	+	PA	+M		+M													+	+	PA	4	b																
2989	Mixed salad	+	+	+m	+	+	+	PA	+m/+	+	+	PA	+m/+	+	+	+	+	PA	+M		+M															+	+	PA	4	b														
2990	Mixed salad	+	+	+m	+	+	+	PA	+1/2	+	+	PA	+m	+	+	+	+	PA	+M		+M																+	+	PA	4	b													
2991	Sucrine	+	+	+1/2	+	+	+	PA	+M	+	+	PA	+1/2	+	+	+	+	PA	+M		+M																+	+	PA	4	b													
4244	Baby leaves	-	-	-				NA	+md/-			NA	-					NA																				-	-	NA	4	b												
4245	Baby leaves	-	-	-				NA	+md/-			NA	+m/d	-					NA																					-	-	NA	4	b										
1495	Dill	+	+	+M	+	+	+	PA	-			PPND	+m	+	+	+	+	PA	+M		+M																		+	+	PA	4	b											
1496	Chive	+	+	-				PPND	-			PPND	-					PPND	-		+M	+	+	+		+M		+p											+	+	PA	4	b											
1497	curly lettuce	+	+	+1/2	+	+	+	PA	+M	+	+	PA	+M	+	+	+	+	PA	+p		+p																			+	+	PA	4	b										
1498	Lettuce	+	+	+M/+	+	+	+	PA	+M	+	+	PA	+M	+	+	+	+	PA	+p		+p																				+	+	PA	4	b									
2061	Grated carrots	-	-	-				NA	-			NA	-					NA									st		st													-	-	NA	4	c								
2064	Frozen fruit mix	-	-	-				NA	-			NA	-					NA								st		st															-	-	NA	4	c							
2065	Frozen strawberry	-	-	-				NA	-			NA	-					NA								st		st																-	-	NA	4	c						
2085	Frozen carrots	-	-	-				NA	-			NA	-					NA								st		st																	-	-	NA	4	c					
2086	Frozen mixed vegetables	-	-	-				NA	-			NA	-					NA								-		-																	-	-	NA	4	c					
2344	Grated carrots	-	-	-				NA	-			NA	-					NA								-		-																		-	-	NA	4	c				
2986	White cabbage/carrot/celery	+	+	+m	+	+	+	PA	+md/+	+	+	PA	+m	+	+	+	+	PA	+M/+		+m/+																								+	+	PA	4	c					
2987	Red cabbage	+	+	+M	+	+	+	PA	+1/2	+	+	PA	+m	+	+	+	+	PA	+M		+M																									+	+	PA	4	c				
2988	Grated carrots	+	+	+md/+	+	+	+	PA	+md/+	+	+	PA	+md/+	+	+	+	+	PA	+m/-		+md/+																										+	+	PA	4	c			
2992	White cabbage /carrot / salad / red bell pepper	+	+	+1/2	+	+	+	PA	+M	+	+	PA	+m/+	+	+	+	+	PA	+Md/-		+md/+																										+	+	PA	4	c			
2993	Pre-cooked carrots	+	+	+M	+	+	+	PA	+M	+	+	PA	+M	+	+	+	+	PA	+M		+M																										+	+	PA	4	c			
2994	Pre-cooked potatoes	+	+	+p	+	+	+	PA	+M	+	+	PA	+m/+	+	+	+	+	PA	+1/2		+M																										+	+	PA	4	c			
2995	Chinese cabbage /salad / tomatoe / corn / zucchini / radish / parsley	+	+	-				PPND	+md/-			PPND	-					PPND	- x 2		- x 2																										+	+	PA	4	c			
1499	Mix apple/grapes	+	+	+M	+	+	+	PA	+M	+	+	PA	+M	+	+	+	+	PA	+p		+p																										+	+	PA	4	c			
1500	Pineapple pieces	+	+	+M	+	+	+	PA	+M	+	+	PA	+M	+	+	+	+	PA	+M		+M																										+	+	PA	4	c			
1501	Mango pieces	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	+	PA	+p		+p																											+	+	PA	4	c		
1502	Carrots	-	-	+md/-				NA	-			NA	-					NA																															-	-	NA	4	c	
1503	Grated carrots	+	+	+1/2	+	+	+	PA	+M/+	+	+	PA	+M	+	+	+	+	PA	+M		+M																											+	+	PA	4	c		
1594	Sliced zucchini	-	-	-				NA	-			NA	-					NA																															-	-	NA	4	c	
1595	Frozen spinach	-	-	-				NA	-			NA	-					NA																																-	-	NA	4	c



**SPECIFIC INGREDIENTS AND FOODS (25g test portion) – General protocol - Extension No 2**

Alternative methode : GENE-UP Salmonella																																															
BPW for 18h at 37°C																																															
Sample N°	Product	ISO 6579* Result	PCR Result	Confirmation																								Confirmation final result	Final result 18h	Agreement 18h	Category																
				Direct streaking												Subculture SX2																															
				ChromID Salmonella				XLD				ASAP				6h at 41,5°C±1,0°C				24h at 41,5°C±1,0°C																											
				Typical colonies	Before purif		Final result	Agreement	Typical colonies	Before purif	Final result	Agreement	Typical colonies	After purif			Final result	Agreement	Typical colonies	Before purif	Typical colonies		Before purif		After purif		Typical colonies					Before purif	Typical colonies		Before purif		After purif										
Latex	Api	Latex	Api		Agg	Latex								Api	Latex	Api					Latex	Api	Latex	Api	Latex	Api		Latex	Api	Latex	Api		Latex	Api													
5623	Infant formula with probiotics	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	PA	+p		+p										+	+	PA	5	b										
5624	Infant formula with probiotics	-	+	+p	+	+	+	PD	+p	+	+	PD	+p	+	+	+	+	+	+	PD	+p		+p											+	+	PD	5	b									
5625	Infant formula with probiotics	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	PA	+p		+p												+	+	PA	5	b								
5626	Infant formula with probiotics	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	PA	+p		+p													+	+	PA	5	b							
5627	Infant formula with probiotics	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	PA	+p		+p														+	+	PA	5	b						
5628	Infant formula with probiotics	+	-	st			-	ND	st			ND	st							ND	st		st			st		st								-	-	ND	5	b							
4395	Whole egg powder	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	PA	+p		+p														+	+	PA	5	c						
4396	White egg powder	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	PA	+p		+p															+	+	PA	5	c					
4397	White egg powder	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	PA	+p		+p																+	+	PA	5	c				
4398	Whole egg powder	-	-	st			-	NA	st			NA	st							NA						st		st										-	-	NA	5	c					
4399	Whole egg powder	-	-/+*	st			-	PPNA	st			PPNA	st							PPNA	st		st			st		st										-	-	PPNA	5	c					
4400	Whole egg powder	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	PA	+p		+p																+	+	PA	5	c				
4401	Whole egg powder	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	PA	+p		+p																	+	+	PA	5	c			
4730	Pasteurized egg yolk	-	-	st			-	NA	st			NA	st							NA						st		st											-	-	NA	5	c				
4731	Pasteurized egg yolk	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	PA	+p		+p																	+	+	PA	5	c			
4732	Pasteurized whole egg	-	-	st			-	NA	st			NA	st							NA						st		st												-	-	NA	5	c			
4733	Pasteurized whole egg	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	PA	+p		+p																		+	+	PA	5	c		
4734	Pasteurized egg white	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	PA	+p		+p			+p		+p													+	+	PA	5	c		
5212	Whole egg powder	-	+/-	st			-	PPNA	st			PPNA	st							PPNA	st		st			st		st													- (MSRV -)	-	PPNA	5	c		
5213	Whole egg powder	-	-	st			-	NA	st			NA	st							NA						st		st													-	-	NA	5	c		
5214	Egg yolk powder	-	-	st			-	NA	st			NA	st							NA						st		st													-	-	NA	5	c		
5215	White egg powder	-	-	st			-	NA	st			NA	st							NA						st		st														-	-	NA	5	c	
5221	Pasteurized egg yolk	-	-	st			-	NA	st			NA	st							NA	st		st			st		st														-	-	NA	5	c	
5222	Pasteurized whole egg	-	-	st			-	NA	st			NA	st							NA						st		st														-	-	NA	5	c	
5223	Pasteurized whole egg	-	-	st			-	NA	st			NA	st							NA						st		st															-	-	NA	5	c
5629	Sweet egg yolk pasteurized egg (50%)	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	PA	+p		+p																			+	+	PA	5	c	
5630	Salted egg yolk pasteurized (10%)	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	PA	+p		+p																				+	+	PA	5	c
5631	Sweet egg yolk pasteurized egg (50%)	-	-	st			-	NA	st			NA	st							NA						st		st															-	-	NA	5	c
5632	Salted egg yolk pasteurized (10%)	-	-	st			-	NA	st			NA	st							NA						st		st															-	-	NA	5	c
1992	Pasteurized whole liquid egg	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	PA	+p	+	+p																				+	+	PA	5	c

**SPECIFIC INGREDIENTS AND FOODS (25g test portion) - ISO protocol - Extension No 2**

Sample N°	Product	ISO 6579* Result	Alternative methode : GENE-UP Salmonella																											Final result 18h	Agreement 18h	Category					
			ISO Enrichment broth for 18h at 37°C																																		
			PCR Result	Confirmation															Confirmation final result																		
				Direct streaking										Subculture SX2																							
				ChromID Salmonella					XLD					ASAP						6h at 41,5°C±1,0°C					24h at 41,5°C±1,0°C												
Typical colonies	Before purif		Final result	Agreement	Typical colonies	Before purif	Final result	Agreement	Typical colonies	Before purif	After purif			Final result	Agreement	Typical colonies	Before purif	Typical colonies		Before purif	After purif		Typical colonies	Before purif	Typical colonies		Before purif	After purif		Confirmation final result	Final result 18h	Agreement 18h					
	Latex	Api									Latex	Api	Agg					Latex	Api		Latex	Api			Latex	Api		Latex	Api				Latex	Api	Latex	Api	Latex
3071	Dried basil	-	if*/-**	st			NA	st			NA	st			NA																			5 a			
3072	Dried herbs	-	if*/-**	st			NA	st			NA	st			NA																			5 a			
3073	Paprika	+	+	-			PPND	-			PPND	-			PPND	-																		5 a			
3074	Turmeric	+	+	-			PPND	-			PPND	-			PPND	-																		5 a			
3075	Curry	-	-	-			NA	-			NA	-			NA	-																		5 a			
3076	Dried thyme	+	if*/+**	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+																5 a			
4265	Cocoa powder	-	if*/-**	st			NA	st			NA	st			NA	st																		5 a			
4266	Cocoa powder	-	if*/-**	st			NA	st			NA	st			NA	st																			5 a		
4267	Cocoa powder	+	if*/+**	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+																	5 a		
4268	Milk chocolate tablet	-	-	st			NA	st			NA	st			NA	st																			5 a		
4269	Dark chocolate tablet	-	-	st			NA	st			NA	st			NA	st																			5 a		
4270	Cocoa bean	+	+	-			PPND	-			PPND	-			PPND	-																			5 a		
4694	Cocoa powder	-	if*/(+/-)**	st			PPNA	st			PPNA	st			PPNA	st																			5 a		
4695	Cocoa powder	-	if*/-**	st			NA	st			NA	st			NA	st																				5 a	
4696	Tarragon	-	if*/+**	st			PPNA	st			PPNA	st			PPNA	st																				5 a	
4697	Oregano	-	if*/+**	st			NA	st			NA	st			NA	st																				5 a	
4698	Salsa spices	-	if*/+**	st			PPNA	st			PPNA	st			PPNA	st																				5 a	
4699	Chinese spices	-	-	-			NA	st			NA	st			NA	st																				5 a	
4984	Black chocolate tablets	-	-	st			NA	st			NA	st			NA	st																				5 a	
4985	Black chocolate tablets	-	-	st			NA	st			NA	st			NA	st																				5 a	
4986	Black chocolate tablets	+	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+																		5 a	
5620	Tarragon	-	if*/-**	st			NA	st			NA	st			NA	st																				5 a	
5621	Cocoa powder	-	if*/-**	st			NA	st			NA	st			NA	st																				5 a	
4381	Cereals with probiotics	+	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+																		5 b	
4382	Cereals with probiotics	+	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+																			5 b
4383	Cereals with probiotics	+	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+																			5 b
4384	Cereals with probiotics	-	if*/+**	st			PPNA	st			PPNA	st			PPNA	st																				5 b	
4385	Cereals with probiotics	-	if*/+**	+p	+	+	NA	+p	+	+	NA	+p	+	+	NA	+p	+	+																			5 b
4386	Cereals with probiotics	+	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+																			5 b
4387	Infant cereals with probiotics	+	+	+1/2	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+																			5 b
4388	Infant formula with probiotics	-	-	st			NA	st			NA	st			NA	st																					5 b
4389	Infant formula with probiotics	-	-	st			NA	st			NA	st			NA	st																					5 b
4390	Infant formula with probiotics	-	-	st			NA	st			NA	st			NA	st																					5 b
4391	Infant formula with probiotics	-	-	st			NA	st			NA	st			NA	st																					5 b
4392	Infant formula with probiotics	-	-	st			NA	st			NA	st			NA	st																					5 b
4393	Infant formula with probiotics	-	-	st			NA	st			NA	st			NA	st																					5 b
4394	Infant formula with probiotics	-	-	st			NA	st			NA	st			NA	st																					5 b
5622	Infant formula with probiotics	+	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+																			5 b
5623	Infant formula with probiotics	+	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+																			5 b
5624	Infant formula with probiotics	-	-	st			NA	st			NA	st			NA	st																					5 b
5625	Infant formula with probiotics	+	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+																			5 b
5626	Infant formula with probiotics	+	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+																			5 b
5627	Infant formula with probiotics	+	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+																			5 b

\* Analyses performed according to the COFRAC accreditation







PRODUCTION ENVIRONMENTAL SAMPLES - General protocol - Extension No 2

Table with columns: Sample N°, Product, ISO 6579\* Result, PCR Result, Confirmation (Direct streaking, Subculture SX2), Final result 18h, Agreement 18h, Category, and Time. Rows include various samples like Process water (fish industry), Cleaning water (delicatessen industry), Porcine environment, and Wipe (swine industry) with their respective test results.



**COCOA AND CHOCOLATES (375 g test portion) - Specific protocol ④ - Extension No 3**

Sample N°	Product	Reference method: ISO 6579-1♦ Result	PCR Result	Alternative method: GENE-UP <i>Salmonella</i> BPW for 20h at 37°C																												Confirmation final result	Final result	Agreement	Category	Type
				Direct streaking												Subculture SX2																				
				ChromID Salmonella				XLD				ASAP				6h at 41,5°C±1,0°C				24h at 41,5°C±1,0°C																
				Typical colonies	Before purif		Final result	Agreement	Typical colonies	Before purif	Final result	Agreement	Typical colonies	Before purif	After purif			Final result	Agreement	Typical colonies	Before purif	ASAP				Typical colonies	Before purif	XLD		ASAP						
Latex	Api	Latex	Api		Agg	Latex									Api	Latex	Api					Latex	Api	Latex	Api			Latex	Api	Latex	Api					
6684	Deodorized cocoa butter	-	-	st		-	NA	st		-	NA	st				-	NA	st		st										-	-	NA	10	c		
6685	Non deodorized cocoa butter	-	-	st		-	NA	st		-	NA	st				-	NA	st		st										-	-	NA	10	c		
6686	Cocoa mass	-	-	-		-	NA	-		-	NA	-				-	NA	st		st									-	-	NA	10	c			
6688	Cocoa mass	+	+	+m	+	+	PA	+m	+	+	PA	+m	+	+	+	PA	+M		+M										+	+	PA	10	c			
6689	Cocoa mass	-	-/+	+M	+	+	NA	+M	+	-	NA	+M	+	+		-	NA	+M		+M									+	-	NA	10	c			
6690	Cocoa mass	+	-	st		-	ND	st		-	ND	st				-	ND	st		st									-	-	ND	10	c			
7054	Cocoa mass	-	-	st		-	NA	st		-	NA	st				-	NA	-		-									-	-	NA	10	c			
7055	Cocoa mass	-	-	st		-	NA	st		-	NA	st				-	NA	st		st									-	-	NA	10	c			
7056	Cocoa mass	-	-	st		-	NA	st		-	NA	st				-	NA	st		st									-	-	NA	10	c			
7700	Cocoa mass	+	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	+p		+p										+	+	PA	10	c			
7701	Cocoa mass	+	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	+p		+p										+	+	PA	10	c			
7702	Cocoa mass	+	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	+p		+p										+	+	PA	10	c			
7703	Cocoa butter	+	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	+p		+p										+	+	PA	10	c			
7704	Cocoa butter	-	-	st		-	NA	st		-	NA	st				-	NA												-	-	NA	10	c			
7705	Cocoa mass	-	-	st		-	NA	st		-	NA	st				-	NA												-	-	NA	10	c			
7706	Cocoa mass	-	-	st		-	NA	st		-	NA	st				-	NA												-	-	NA	10	c			
7707	Cocoa mass	-	-	st		-	NA	st		-	NA	st				-	NA												-	-	NA	10	c			







MILK POWDERS (375 g test portion) - Specific protocol ⑤ - Extension study No 3

Sample N°	Product	Reference method: ISO 6579-1* Result	Alternative method: GENE-UP Salmonella																											Confirmation final result	Final result 18h	Agreement 18h	Category	Trace	
			BPW (1/4 dilution) + novobiocin 10mg/L for 20h at 37°C																																
			PCR Result	Confirmation																XLD	Subculture SX2														
				Direct streaking								6h at 41,5°C±1,0°C									24h at 41,5°C±1,0°C														
				ChromID Salmonella				XLD				ASAP				XLD					ASAP				XLD				ASAP						
Typical colonies	Before purif			Final result	Agreement	Typical colonies	Before purif	Final result	Agreement	Typical colonies	Before purif	After purif			Final result	Agreement	Typical colonies	Before purif	After purif		Typical colonies	Before purif	After purif		Typical colonies	Before purif	After purif								
	Latex	Api				Api				Latex	Api	Agg					Api		Latex	Api	Latex	Api		Api		Latex	Api								
7881	Infant formula without probiotics	-	-	st			-	NA	st			-	NA	st					-	NA	st					st					-	-	NA	11	b
7882	Infant formula without probiotics	-	-	st			-	NA	st			-	NA	st					-	NA	st					st					-	-	NA	11	b
7883	Infant formula without probiotics	-	-	st			-	NA	st			-	NA	st					-	NA	st					st					-	-	NA	11	b
7884	Infant formula without probiotics	-	-	st			-	NA	st			-	NA	st					-	NA	st					st					-	-	NA	11	b
7885	Infant formula without probiotics	-	-	-			-	NA	-			-	NA	-					-	NA	st					-					-	-	NA	11	b
7886	Infant formula without probiotics	-	-	st			-	NA	st			-	NA	st					-	NA	st					st					-	-	NA	11	b
4497	Infant formula with probiotics (3.2.10 <sup>6</sup> CFU/g)	-	+	+p(1)	+	+	+	PD	+p(1)	+	+	PD	st	+	+			+	PD	+p										+	+	PD	11	c	
4498	Infant formula with probiotics (6.4.10 <sup>5</sup> CFU/g)	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+			+	PA	+p										+	+	PA	11	c	
4499	Infant formula with probiotics (5.2.10 <sup>6</sup> CFU/g)	-	-	st			-	NA	st			-	NA	st					-	NA	st					st					-	-	NA	11	c
4500	Infant formula with probiotics (2.3.10 <sup>6</sup> CFU/g)	-	+	+p	+	+	+	PD	+p	+	+	PD	+p	+	+			+	PD	+p										+	+	PD	11	c	
4501	Infant formula with probiotics (2.0.10 <sup>5</sup> CFU/g)	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+			+	PA	+p										+	+	PA	11	c	
5550	Infant formula with probiotics (2.0.10 <sup>7</sup> CFU/g)	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+			+	PA	+p										+	+	PA	11	c	
5551	Infant formula with probiotics (2.4.10 <sup>5</sup> CFU/g)	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+			+	PA	+p										+	+	PA	11	c	
5552	Infant formula with probiotics (3.0.10 <sup>5</sup> CFU/g)	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+			+	PA	+p										+	+	PA	11	c	
5553	Infant formula with probiotics (1.4.10 <sup>7</sup> CFU/g)	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+			+	PA	+p										+	+	PA	11	c	
5554	Infant formula with probiotics (1.0.10 <sup>7</sup> CFU/g)	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+			+	PA	+p										+	+	PA	11	c	
5555	Infant formula with probiotics (6.7.10 <sup>6</sup> CFU/g)	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+			+	PA	+p										+	+	PA	11	c	
7875	Infant formula with probiotics (<2.10 <sup>3</sup> CFU/g)	-	-	st			-	NA	st			-	NA	st					-	NA	st					st					-	-	NA	11	c
7887	Infant formula with probiotics (3.0.10 <sup>5</sup> CFU/g)	-	-	st			-	NA	st			-	NA	st					-	NA	st					st					-	-	NA	11	c
7888	Infant formula with probiotics (<2.0.10 <sup>3</sup> CFU/g)	-	-	st			-	NA	st			-	NA	st					-	NA	st					st					-	-	NA	11	c
7889	Infant formula with probiotics (8.0.10 <sup>4</sup> CFU/g)	-	-	st			-	NA	st			-	NA	st					-	NA	st					st					-	-	NA	11	c
7890	Infant formula with probiotics (<2.0.10 <sup>3</sup> CFU/g)	-	-	st			-	NA	st			-	NA	st					-	NA	st					st					-	-	NA	11	c
7891	Infant formula with probiotics (1.9.10 <sup>5</sup> CFU/g)	-	-	st			-	NA	st			-	NA	st					-	NA	st					st					-	-	NA	11	c
7892	Infant formula with probiotics (8.6.10 <sup>5</sup> CFU/g)	-	-	st			-	NA	st			-	NA	st					-	NA	st					st					-	-	NA	11	c
7893	Infant formula with probiotics (4.2.10 <sup>5</sup> CFU/g)	-	-	st			-	NA	st			-	NA	st					-	NA	st					st					-	-	NA	11	c
7894	Infant formula with probiotics (8.0.10 <sup>6</sup> CFU/g)	-	-	st			-	NA	st			-	NA	st					-	NA	st					st					-	-	NA	11	c





PET FOOD (25 g test portion) - General protocol- Extension No 4

Alternative methode: GENE-UP Salmonella

BPW for 18h at 37°C

Sample N°	Product	Reference method: ISO 6579-1* Result	PCR Result	Confirmation																				Confirmation final result	Final result 18h	Agreement 18h	Category	Type
				Direct streaking												Subculture SX2												
																6h at 41,5°C±1,0°C				24h at 41,5°C±1,0°C								
				ChromID Salmonella				XLD				ASAP				XLD		ASAP		XLD		ASAP						
				Typical colonies	Before purif	Final result	Agreement	Typical colonies	Before purif	Final result	Agreement	Typical colonies	Before purif	Final result	Agreement	Typical colonies	Before purif	Typical colonies	Typical colonies	Before purif	Typical colonies	Before purif						
Latex	Api			Api				Latex	Api			Api		Api		Latex	Api											
8515	Rodent food	-	-	-	-	-	NA	-	-	-	NA	-	-	-	NA	-	-	-	-	-	-	-	-	-	NA	6	b	
8516	Rabbit food	-	-	-	-	-	NA	st	-	-	NA	st	-	-	NA	st	-	st	st	-	st	-	-	-	NA	6	b	
8517	Guinea pig food	-	-	-	-	-	NA	-	-	-	NA	-	-	-	NA	-	-	-	-	-	-	-	-	-	NA	6	b	
8518	Pellets for dog	-	-	-	-	-	NA	-	-	-	NA	-	-	-	NA	-	-	-	-	-	-	-	-	-	NA	6	b	
8519	Pellets for dog	-	-	-	-	-	NA	-	-	-	NA	-	-	-	NA	-	-	-	-	-	-	-	-	-	NA	6	b	
8520	Pellets for dog (poultry/ cereals/ vegetables)	-	-	-	-	-	NA	-	-	-	NA	-	-	-	NA	-	-	-	-	-	-	-	-	-	NA	6	b	
8521	Pellets for dog	-	-	-	-	-	NA	-	-	-	NA	-	-	-	NA	st	-	st	-	-	-	-	-	-	NA	6	b	
8522	Pellets for cat (beef/ poultry/ vegetables)	-	-	-	-	-	NA	-	-	-	NA	-	-	-	NA	st	-	st	-	-	-	-	-	-	NA	6	b	
8523	Pellets for cat (tuna/ salmon/ cereals/ vegetables)	-	-	-	-	-	NA	-	-	-	NA	-	-	-	NA	-	-	-	-	-	-	-	-	-	NA	6	b	
8524	Pellets for cat (beef/ poultry/ vegetables)	-	-	-	-	-	NA	-	-	-	NA	-	-	-	NA	st	-	st	st	-	st	-	-	-	NA	6	b	
9107	Rodent food	+	+	+M	+	+	+	PA	+M	+	+	PA	+M	+	+	+	PA	+M	+	+M	-	-	-	+	+	PA	6	b
9108	Bird food	+	+	+m	+	+	+	PA	+M	+	+	PA	+M	+	+	+	PA	+M	+	+M	-	-	-	+	+	PA	6	b
9109	Guinea pig food	+	+	+M	+	+	+	PA	+M	+	+	PA	+M	+	+	+	PA	+M	+	+M	-	-	-	+	+	PA	6	b
9110	Guinea pig food	-	-	-	-	-	NA	-	-	-	NA	-	-	-	NA	-	-	st	-	st	-	-	-	-	NA	6	b	
9111	Pellets for cat (beef/ poultry/ vegetables)	+	+	+M	+	+	+	PA	+M	+	+	PA	+M	+	+	+	PA	+M	+	+M	-	-	-	+	+	PA	6	b
9112	Pellets for cat (chiken/duck/vegetables)	+	+	+M	+	+	+	PA	+M	+	+	PA	+M	+	+	+	PA	+M	+	+M	-	-	-	+	+	PA	6	b
9113	Pellets for cat (beef/poultry/fish)	-	-	-	-	-	NA	-	-	-	NA	st	-	-	NA	-	-	st	-	st	-	-	-	-	NA	6	b	
9114	Pellets for dog (beef)	+	+	+M	+	+	+	PA	+M	+	+	PA	+M	+	+	+	PA	+M	+	+M	-	-	-	+	+	PA	6	b
9115	Pellets for cat (beef/poultry/vegetables)	+	+	+m	+	+	+	PA	+M	+	+	PA	+M	+	+	+	PA	+M	+	+M	-	-	-	+	+	PA	6	b
9116	Pellets for dog (poultry/vegetables)	-	-	-	-	-	NA	-	-	-	NA	-	-	-	NA	-	-	st	-	st	-	-	-	-	NA	6	b	
9117	Pellets for cat (tuna/ salmon/ cereals/ vegetables)	+	+	+M	+	+	+	PA	+M	+	+	PA	+M	+	+	+	PA	+M	+	+M	-	-	-	+	+	PA	6	b
9624	Pellets for cat (tuna, salmon, cereals, vegetables)	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	+p	+	+p	-	-	-	+	+	PA	6	b
9625	Pellets for dog (beef)	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	+p	+	+p	-	-	-	+	+	PA	6	b



PET FOOD (375 g test portion) - Protocol ⑥ - Extension No 4

Sample N°	Product	Reference method: ISO 6579-1* Result	Alternative method: GENE-UP Salmonella																											Confirmation	Final result 18h	Agreement 18h	Category	Type		
			BPW 1/6 for 20h at 37°C																																	
			PCR Result	Direct streaking												Subculture SX2												Confirmation final result								
				ChromID Salmonella						XLD			ASAP			6h at 41,5°C±1,0°C						24h at 41,5°C±1,0°C														
				Typical colonies	Before purif		Final result	Agreement	Typical colonies	Before purif	Final result	Agreement	Typical colonies	Before purif			After purif			Final result	Agreement	Typical colonies	Before purif	Typical colonies	Before purif		After purif		Typical colonies						Before purif	Typical colonies
Latex	Api	Latex			Api	Agg								Latex	Api	Latex	Api	Latex	Api						Latex	Api	Latex			Api	Latex	Api				
8523	Pellets for cat (tuna, salmon, cereals, vegetables)	+	-	-	-	-	ND	-	-	-	ND	-	-	-	-	-	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	b
8524	Pellets for cat (beef, poultry, vegetables)	-	-	-	-	-	NA	-	-	-	NA	-	-	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	b	
9120	Pellets for dog (salmon/oat)	+	+	+M	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	+p	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	12	b	
9121	Pellets for cat (salmon/barley)	-	+	+p	+	+	PD	+p	+	+	PD	+p	+	+	+	PD	+p	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	12	b	
9122	Pellets for dog (poultry/barley)	+	-	-	-	-	ND	-	-	-	ND	-	-	-	-	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	b	
9123	Pellets for dog (chicken/rice)	-	-	-	-	-	NA	-	-	-	NA	-	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	b	
9124	Pellets for dog (chicken/vegetables/rice)	-	-	-	-	-	NA	-	-	-	NA	-	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	b	
9125	Pellets for dog (beef)	-	-	-	-	-	NA	-	-	-	NA	-	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	b	
9523	Bird food	+	+	-	-	-	PPND	+md/+	+	+	PA	-	-	-	-	PPND	+md/+	+	+md/+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	12	b
9524	Rabbit food	+	+	-	-	-	PPND	-	-	-	PPND	-	-	-	-	PPND	+md/+	+	+m	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	12	b
9525	Rodent food	-	-	-	-	-	NA	-	-	-	NA	-	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	b	
9595	Pellets for dog (beef)	-	-	-	-	-	NA	st	-	-	NA	st	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	b	
9641	Pellets for dog (beef)	-	-	-	-	-	NA	st	-	-	NA	st	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	b	
9642	Pellets for dog (beef)	-	-	-	-	-	NA	st	-	-	NA	st	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	b	
9643	Pellets for cat (chicken)	-	-	-	-	-	NA	st	-	-	NA	st	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	b	



PET FOOD (375 g test portion) - ISO Protocol- Extension No 4

Sample N°	Product	Reference method: ISO 6579-1* Result	Alternative method: GENE-UP Salmonella																												Confirmation final result	Final result 18h	Agreement 18h	Category					
			BPW 1/10 for 20h at 37°C																																				
			Confirmation																																				
			Direct streaking												Subculture SX2																								
															6h at 41,5°C±1,0°C								24h at 41,5°C±1,0°C																
ChromID Salmonella				XLD				ASAP				XLD		ASAP				XLD		ASAP																			
Typical colonies	Before purif		Final result	Agreement	Typical colonies	Before purif	Final result	Agreement	Typical colonies	Before purif		After purif		Final result	Agreement	Typical colonies	Before purif	Typical colonies		Before purif		After purif		Typical colonies	Before purif	Typical colonies		Before purif		After purif									
	Latex	Api								Late x	Api	Late x	Api					Agg	Late x	Api	Late x	Api	Late x			Api	Late x	Api	Late x	Api	Late x	Api	Late x	Api	Late x	Api	Late x	Api	Late x
8523	Pellets for cat (tuna, salmon, cereals, vegetables)	+	+	+M	+	+	+	PA	+p	+	+	PA	+M	+	+				+	PA	+p		+p					+p		+p					+	+	PA	12	b
8524	Pellets for cat (beef, poultry, vegetables)	-	-	-				NA	-			NA	-						-	NA	-		-					-		-				-	-	NA	12	b	
9118	Pellets for dog (poultry/rice/cereals)	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+				+	PA	+p		+p					+p		+p					+	+	PA	12	b
9119	Pellets for cat (poultry/vegetables/milk)	-	-	-				NA	-			NA	-						-	NA	-		-					-		-				-	-	NA	12	b	
9120	Pellets for dog (salmon/oat)	+	+	+p	+	+	+	PA	+M	+	+	PA	+M	+	+				+	PA	+p		+p					+p		+p					+	+	PA	12	b
9121	Pellets for cat (salmon/barley)	-	-	-				NA	-			NA	-						-	NA	-		-					-		-				-	-	NA	12	b	
9122	Pellets for dog (poultry/barley)	+	+	+1/2	+	+	+	PA	+M	+	+	PA	+M	+	+				+	PA	+p		+p					+p		+p					+	+	PA	12	b
9123	Pellets for dog (chicken/rice)	-	-	-				NA	-			NA	-						-	NA	-		-					-		-				-	-	NA	12	b	
9124	Pellets for dog (chicken/vegetables/rice)	-	-	-				NA	-			NA	-						-	NA	-		-					-		-				-	-	NA	12	b	
9125	Pellets for dog (beef)	-	-	-				NA	-			NA	-						-	NA	-		-					-		-				-	-	NA	12	b	
9521	Rabbit food	+	+	+m	+	+	+	PA	+m	+	+	PA	+m	+	+				+	PA	+m		+m					+		+					+	+	PA	12	b
9522	Guinea pig food	+	-/-+	-				ND	-			ND	-						-	ND	-		-					-		-				-	-	ND	12	b	
9523	Bird food	+	+	-				PPND	-			PPND	+md/+	+	+				+	PA	+m/+	+	+m/+					+m		+m					+	+	PA	12	b
9524	Rabbit food	+	-/-	-				ND	-			ND	-						-	ND	-		+m	+	+m	+	+		+					+	-	ND	12	b	
9525	Rodent food	-	-	-				NA	-			NA	-						-	NA	-		-					-		-				-	-	NA	12	b	
9595	Pellets for dog (beef)	-	-	-				NA	-			NA	-						-	NA	-		st		st			-		-				-	-	NA	12	b	
9622	Pellets for cat (tuna, salmon, cereals, vegetables)	+	+	+M	+	+	+	PA	+p	+	+	PA	+p	+	+				+	PA	+p		+p					+		+					+	+	PA	12	b
9623	Pellets for dog (beef)	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+				+	PA	+p		+p					+		+					+	+	PA	12	b

MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITHOUT PROBIOTICS INCLUDING INGREDIENTS (25g test portion)- General Protocol - Extension No 5																																									
Sample N°	Product	ISO 6579-1* Result	Alternative method : GENE-UP Salmonella																								PCR result	Confirmation	Final result 18 h	Agreement 18 h	Category	Type									
			BPW for 18 h at 37°C																																						
			Direct streaking												Subculture SX2																										
			ChromID Salmonella						XLD				ASAP					6 h at 41,5°C±1,0°C				24 h at 41,5°C±1,0°C																			
			Typical colonies	Before purif		Final result	Agreement	Typical colonies	Before purif	Final result	Agreement	Typical colonies	Before purif		After purif			Final result	Agreement	Typical colonies	Before purif	Typical colonies		Before purif		After purif							Confirmation final result	ISO 6579 (Milk powders) on negative samples							
Latex	Api	Latex		Api	Latex								Api	Agg	Latex	Api	Latex					Api	Latex	Api	Latex	Api															
4643	Skim milk powder	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+				+	PA	+p		+p										+	/	+	PA	13	a			
4644	Skim milk powder	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+				+	PA	+p		+p											+	/	+	PA	13	a		
4645	Skim milk powder	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+				+	PA	+p		+p											+	/	+	PA	13	a		
4646	Skim milk powder	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+				+	PA	+p		+p											+	/	+	PA	13	a		
4647	Whole milk powder	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+				+	PA	+p		+p											+	/	+	PA	13	a		
4648	Skim milk powder	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+				+	PA	+p		+p											+	/	+	PA	13	a		
4673	Infant formula without probiotics	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+				+	PA	+p		+p											+	/	+	PA	13	a		
4674	Infant formula without probiotics	-	-	st			-	NA	st		-	NA	st						-	NA						st		st						-	-	-	NA	13	a		
4675	Infant formula without probiotics	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+				+	PA	+p		+p												+	/	+	PA	13	a	
4676	Infant formula without probiotics	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+				+	PA	+p		+p												+	/	+	PA	13	a	
4677	Infant formula without probiotics	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+				+	PA	+p		+p												+	/	+	PA	13	a	
4678	Infant formula without probiotics	-	-	st			-	NA	st		-	NA	st						-	NA						st		st							-	-	-	NA	13	a	
6098	Whole milk powder	-	-	-			-	NA	st		-	NA	st						-	NA						st		st						-	-	-	NA	13	a		
6099	Skim milk powder	-	-	st			-	NA	st		-	NA	st						-	NA						st		st							-	-	-	NA	13	a	
6100	Milk powder	-	-	st			-	NA	st		-	NA	st						-	NA						st		st							-	-	-	NA	13	a	
6101	Skim milk powder	-	-	st			-	NA	st		-	NA	st						-	NA						st		st								-	-	-	NA	13	a
6102	Skim milk powder	-	-	st			-	NA	st		-	NA	st						-	NA						st		st								-	-	-	NA	13	a
6114	Infant formula without probiotics	-	-	st			-	NA	st		-	NA	st						-	NA						st		st								-	-	-	NA	13	a
6115	Infant formula without probiotics	-	-	st			-	NA	st		-	NA	st						-	NA						st		st								-	-	-	NA	13	a
6116	Infant formula without probiotics	-	-	st			-	NA	st		-	NA	st						-	NA						st		st								-	-	-	NA	13	a

\* Analyses performed according to the COFRAC accreditation

MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITHOUT PROBIOTICS INCLUDING INGREDIENTS (25g test portion)- General Protocol - Extension No 5																																	
Sample N°	Product	ISO 6579-1* Result	Alternative method : GENE-UP <i>Salmonella</i>																									Category	Type				
			BPW for 18 h at 37°C																														
			PCR result	Confirmation															Confirmation final result	ISO 6579 (Milk powders) on negative samples	Final result 18 h	Agreement 18 h											
				Direct streaking										Subculture SX2																			
									6 h at 41,5°C±1,0°C					24 h at 41,5°C±1,0°C																			
ChromID Salmonella				XLD				ASAP				XLD		ASAP			XLD						ASAP										
Typical colonies	Before purif		Final result	Agreement	Typical colonies	Before purif		Final result	Agreement	Typical colonies	Before purif		After purif		Final result	Agreement	Typical colonies	Before purif		After purif		Typical colonies	Before purif		After purif								
	Latex	Api				Api	Latex				Api	Latex	Api	Agg				Api	Latex	Api	Latex		Api	Api	Latex	Api	Latex	Api					
4649	Infant cereals without probiotics	-	-	st		-	NA	st		-	NA	st				-	NA					st		st				-	/	-	NA	13	b
4650	Infant cereals without probiotics	+	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	+p		+p									+	/	+	PA	13	b
4651	Infant cereals without probiotics	+	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	+p		+p									+	/	+	PA	13	b
4652	Infant cereals without probiotics	+	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	+p		+p									+	/	+	PA	13	b
4653	Infant cereals without probiotics	+	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	+p		+p									+	/	+	PA	13	b
4654	Infant cereals without probiotics	+	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	+p		+p									+	/	+	PA	13	b
4655	Infant cereals without probiotics	+	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	+p		+p									+	/	+	PA	13	b
4656	Infant cereals without probiotics	+	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	+p		+p									+	/	+	PA	13	b
4657	Infant cereals without probiotics	+	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	+p		+p									+	/	+	PA	13	b
4658	Infant cereals without probiotics	+	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	+p		+p									+	/	+	PA	13	b
4659	Infant cereals without probiotics	+	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	+p		+p									+	/	+	PA	13	b
4660	Infant cereals without probiotics	+	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	+p		+p									+	/	+	PA	13	b
6103	Infant cereals without probiotics	-	-	st		-	NA	st		-	NA	st				-	NA					st		st				-	/	-	NA	13	b
6104	Infant cereals without probiotics	-	-	-		-	NA	-		-	NA	-				-	NA					st		-				-	/	-	NA	13	b
6105	Infant cereals without probiotics	-	-	st		-	NA	st		-	NA	st				-	NA					st		st				-	/	-	NA	13	b
6117	Infant cereals without probiotics	-	-	st		-	NA	st		-	NA	st				-	NA					st		st				-	/	-	NA	13	b
6118	Infant cereals without probiotics	-	-	st		-	NA	st		-	NA	st				-	NA					st		st				-	/	-	NA	13	b
6119	Infant cereals without probiotics	-	-	st		-	NA	st		-	NA	st				-	NA					st		st				-	/	-	NA	13	b
6120	Infant cereals without probiotics	-	-	-		-	NA	-		-	NA	-				-	NA					-		-				-	/	-	NA	13	b











**INFANT FORMULA AND INFANT CEREALS WITH PROBIOTICS (375 g test portion) - Specific protocol ⑦ - Extension No 5**

**Alternative method : GENE-UP *Salmonella***  
**BPW + novobiocin (10 mg/l) - D 1/10 - 18 h at 37°C**

Sample N°	Product	ISO 6579-1 • Result	PCR Final result	Confirmation																								Confirmation Final result	ISO 6579 (Milk powders) on negative samples	Final Result 18 h	Agreement 18 h	Category	Type							
				Direct streaking												Subculture SX2																								
				ChromID <i>Salmonella</i>				XLD				ASAP				6 h at 41,5°C±1,0°C						24 h at 41,5°C±1,0°C																		
				Typical colonies	Before purif		Final result	Agreement	Typical colonies	Before purif	Final result	Agreement	Typical colonies	Before purif			Final result	Agreement	Typical colonies	Before purif	Typical colonies	Before purif		After purif		Typical colonies	Before purif							Typical colonies	Before purif		After purif			
Latex	Api	Latex	Api		Agg	Latex								Api	Latex	Api						Latex	Api	Latex	Api			Latex	Api											
6150	Infant cereals with probiotics (8,3.10 <sup>3</sup> CFU/g)	-	-	st				NA	st				NA	st					NA	st					st					st					-	/	-	NA	14	b
6151	Infant cereals with probiotics (5,6.10 <sup>5</sup> CFU/g)	-	-	st				NA	st				NA	st					NA	st					st					st					-	/	-	NA	14	b











MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITH OR WITHOUT PROBIOTICS INCLUDING INGREDIENTS (375 g test portion)- Specific protocol ④ - Extensions No 5 and 7

Sample N°	Product	ISO 6579-1* Result	Alternative method: GENE-UP <i>Salmonella</i>																									Confirmation final result	ISO 6579 (Milk powders) on negative samples	Final result 18h	Agreement 18h	Category	Type		
			BPW + novobiocin 10mg/L (1/6 dilution) OR pre-warmed BPW (1/10 dilution) for 20h at 37°C																																
			Direct streaking															Subculture SX2																	
																		6h at 41,5°C±1,0°C					24h at 41,5°C±1,0°C												
			ChromID Salmonella				XLD				ASAP							XLD		ASAP			XLD		ASAP										
Typical colonies	Before purif		Final result	Agreement	Typical colonies	Before purif	Final result	Agreement	Typical colonies	Before purif		After purif			Final result	Agreement	Typical colonies	Before purif	Typical colonies	Before purif		After purif		Typical colonies	Before purif	Typical colonies	Before purif		After purif						
	Latex	Api								Latex	Api	Latex	Api	Agg						Latex	Api	Latex	Api				Latex	Api	Latex	Api	Latex	Api	Latex	Api	
2870	Starch	-	-	st		-	NA	-		-	NA	st					-	NA						st		st				-	/	-	NA	15	c
2871	Whey	-	-	st		-	NA	st		-	NA	st					-	NA						st		st				-	-	-	NA	15	c
2872	Caseinates	-	-	st		-	NA	st		-	NA	st					-	NA						st		st				-	-	-	NA	15	c
2873	Lactose	-	-	st		-	NA	st		-	NA	st					-	NA						st		st				-	-	-	NA	15	c
3739	Caseinate	-	-	st		-	NA	st		-	NA	st					-	NA						st		st				-	-	-	NA	15	c
3631	Starch	-	-	-		-	NA	-		-	NA	-					-	NA						-		-				-	/	-	NA	15	c
3632	Starch	-	-	st		-	NA	st		-	NA	st					-	NA						st		st				-	/	-	NA	15	c
3633	Lactose	-	-	st		-	NA	st		-	NA	st					-	NA						st		st				-	-	-	NA	15	c
3634	Starch	-	-	-		-	NA	-		-	NA	-					-	NA						-		-				-	/	-	NA	15	c
3635	Whey	-	-	st		-	NA	st		-	NA	st					-	NA						st		st				-	-	-	NA	15	c
3636	Starch	-	-	st		-	NA	st		-	NA	st					-	NA						st		st				-	/	-	NA	15	c
3637	Maltodextrin	-	-	-		-	NA	st		-	NA	st					-	NA						st		st				-	-	-	NA	15	c
3638	Maltodextrin	-	-	st		-	NA	st		-	NA	st					-	NA						st		st				-	-	-	NA	15	c
3639	Maltodextrin	-	-	-		-	NA	st		-	NA	st					-	NA						st		st				-	-	-	NA	15	c
3640	Maltodextrin	-	-	st		-	NA	st		-	NA	st					-	NA						st		st				-	-	-	NA	15	c
3641	Starch	-	-	st		-	NA	st		-	NA	st					-	NA						st		st				-	/	-	NA	15	c
3642	Starch	-	-	-		-	NA	-		-	NA	-					-	NA						-		-				-	/	-	NA	15	c
3643	Starch	-	-	-		-	NA	-		-	NA	-					-	NA						-		-				-	/	-	NA	15	c
3644	Lactose	-	-	st		-	NA	st		-	NA	st					-	NA						st		st				-	-	-	NA	15	c
3645	Caseinate	-	-	st		-	NA	st		-	NA	st					-	NA						st		st				-	-	-	NA	15	c
3803	Whey	-	-	st		-	NA	st		-	NA	st					-	NA						st		st				-	-	-	NA	15	c
3804	Whey	-	-	st		-	NA	st		-	NA	st					-	NA						st		st				-	-	-	NA	15	c
3805	Whey	-	-	st		-	NA	st		-	NA	st					-	NA						st		st				-	-	-	NA	15	c
3806	Whey	-	-	st		-	NA	st		-	NA	st					-	NA						st		st				-	-	-	NA	15	c
3807	Lactose	-	-	st		-	NA	st		-	NA	st					-	NA						st		st				-	-	-	NA	15	c
3808	Lactose	-	-	st		-	NA	st		-	NA	st					-	NA						st		st				-	-	-	NA	15	c
3809	Lactose	-	-	st		-	NA	st		-	NA	st					-	NA						st		st				-	-	-	NA	15	c
3810	Lactose	-	-	st		-	NA	st		-	NA	st					-	NA						st		st				-	-	-	NA	15	c
3811	Starch	-	-	st		-	NA	st		-	NA	st					-	NA						-		-				-	/	-	NA	15	c
3812	Starch	-	-	st		-	NA	st		-	NA	st					-	NA						st		st				-	/	-	NA	15	c

\* Analyses performed according to the COFRAC accreditation

**MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITH OR WITHOUT PROBIOTICS INCLUDING INGREDIENTS (375 g test portion)- Specific protocol ④ - Extensions No 5 and 7**

Sample N°	Product	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	Confirmation																								Confirmation final result	ISO 6579 (Milk powders) on negative samples			Final result 18h	Agreement 18h					
				Direct streaking												Subculture SX2																						
				ChromID Salmonella				XLD				ASAP				6h at 41,5°C±1,0°C				24h at 41,5°C±1,0°C																		
Typical colonies	Before purif		Final result	Agreement	Typical colonies	Before purif	Final result	Agreement	Typical colonies	Before purif		Final result	Agreement	Typical colonies	Before purif	After purif		Final result	Agreement	Typical colonies	Before purif	After purif		Final result	Agreement													
	Latex	Api								Latex	Api					Latex	Api					Latex	Api			Latex	Api	Latex	Api	Latex	Api							
3813	Maltodextrin	-	-	st			-	NA	st		-	NA	st					-	NA							st		st				-	-	-	NA	15	c	
3814	Maltodextrin	-	-	st			-	NA	st		-	NA	st					-	NA								st		st				-	-	-	NA	15	c
3815	Maltodextrin	-	-	st			-	NA	st		-	NA	st					-	NA								st		st				-	-	-	NA	15	c
3816	Maltodextrin	-	-	st			-	NA	st		-	NA	st					-	NA								st		st				-	-	-	NA	15	c
4986	Maltodextrin	-	-	st			-	NA	st		-	NA	st					-	NA								st		st				-	-	-	NA	15	c
4987	Whey	-	-	st			-	NA	st		-	NA	st					-	NA								st		st				-	-	-	NA	15	c
4988	Caseine	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+			+	PA	+p													+	/	+	PA	15	c
4989	Lactose	-	-	st			-	NA	st		-	NA	st					-	NA								st		st				-	-	-	NA	15	c
4990	Starch	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+			+	PA	+p													+	/	+	PA	15	c
4991	Caseinate	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+			+	PA	+p													+	/	+	PA	15	c
4992	Maltodextrin	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+			+	PA	+p													+	/	+	PA	15	c
4993	Starch	+	+	+M	+	+	+	PA	+M	+	+	PA	+M	+	+			+	PA	+p													+	/	+	PA	15	c
4994	Lactose	-	-	-			-	NA	-		-	NA	-					-	NA								-		-				-	-	-	NA	15	c
4995	Whey	-	-	st			-	NA	st		-	NA	st					-	NA								st		st				-	-	-	NA	15	c
4996	Caseine	-	-	st			-	NA	st		-	NA	st					-	NA								st		st				-	-	-	NA	15	c
4997	Maltodextrin	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+			+	PA	+p													+	/	+	PA	15	c
4998	Lactose	-	-	st			-	NA	st		-	NA	st					-	NA								st		st				-	-	-	NA	15	c
4999	Whey	-	-	st			-	NA	st		-	NA	st					-	NA								st		st				-	-	-	NA	15	c
5000	Starch	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+			+	PA	+p													+	/	+	PA	15	c
5001	Lactose	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+			+	PA	+p													+	/	+	PA	15	c
5002	Maltodextrin	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+			+	PA	+p													+	/	+	PA	15	c
5003	Lactose	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+			+	PA	+p													+	/	+	PA	15	c
5004	Caseine	-	-	-			-	NA	st		-	NA	st					-	NA								-		st				-	-	-	NA	15	c
5005	Starch	+	+	+M	+	+	+	PA	+p	+	+	PA	+p	+	+			+	PA	+p													+	/	+	PA	15	c
5006	Starch	-	-	-			-	NA	st		-	NA	+md	-	(Crono-bacter)			-	NA								-		-				-	/	-	NA	15	c
5007	Maltodextrin	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+			+	PA	+p													+	/	+	PA	15	c
5008	Lactose	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+			+	PA	+p													+	/	+	PA	15	c
5009	Caseinate	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+			+	PA	+p													+	/	+	PA	15	c
5010	Whey	-	-	st			-	NA	st		-	NA	st					-	NA								-		-				-	-	-	NA	15	c
5011	Starch	-	-	-			-	NA	-		-	NA	-					-	NA								-		-				-	/	-	NA	15	c
5012	Starch	-	-	st			-	NA	st		-	NA	st					-	NA								st		st				-	/	-	NA	15	c
5013	Whey	-	-	-			-	NA	-		-	NA	-					-	NA								-		-				-	-	-	NA	15	c

**MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITH OR WITHOUT PROBIOTICS INCLUDING INGREDIENTS (375 g test portion)- Specific protocol (4) - Extensions No 5 and 7**

Sample N°	Product	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	Confirmation																								Confirmation final result	ISO 6579 (Milk powders) on negative samples	Final result 18h			Agreement 18h		
				Direct streaking												Subculture SX2																			
				ChromID Salmonella				XLD				ASAP				XLD				ASAP				XLD										ASAP	
Typical colonies	Before purif		Final result	Agreement	Typical colonies	Before purif	Final result	Agreement	Typical colonies	Before purif		Final result	Agreement	Typical colonies	Before purif	Typical colonies	Before purif		After purif	Typical colonies	Before purif	Typical colonies	Before purif		After purif	Typical colonies	Before purif	Typical colonies	Before purif	After purif					
	Latex	Api								Latex	Api						Latex	Api					Latex	Api							Latex	Api	Latex	Api	Latex
5014	Maltodextrin	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+					+	PA	+p								+	/	+	PA	15	c
5015	Caseine	-	-	st			-	NA	st		-	NA	st							-	NA									-	-	-	NA	15	c
5016	Lactose	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+					+	PA	+p								+	/	+	PA	15	c
5017	Whey	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+					+	PA	+p								+	/	+	PA	15	c
5948	Starch	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+					+	PA	+p								+	/	+	PA	15	c
5949	Starch	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+					+	PA	+p								+	/	+	PA	15	c
5950	Starch	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+					+	PA	+p								+	/	+	PA	15	c
5951	Starch	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+					+	PA	+p								+	/	+	PA	15	c
5952	Starch	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+					+	PA	+p								+	/	+	PA	15	c
5953	Starch	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+					+	PA	+p								+	/	+	PA	15	c
5954	Caseinate	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+					+	PA	+p								+	/	+	PA	15	c
5955	Caseinate	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+					+	PA	+p								+	/	+	PA	15	c
5956	Maltodextrin	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+					+	PA	+p								+	/	+	PA	15	c
5957	Maltodextrin	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+					+	PA	+p								+	/	+	PA	15	c
5958	Lactose	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+					+	PA	+p								+	/	+	PA	15	c
5959	Lactose	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+					+	PA	+p								+	/	+	PA	15	c
5960	Lactose	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+					+	PA	+p								+	/	+	PA	15	c
5961	Lactose	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+					+	PA	+p								+	/	+	PA	15	c
5962	Whey	+	+	+M	+	+	+	PA	+M	+	+	PA	+M	+	+					+	PA	+p								+	/	+	PA	15	c
5963	Whey	-	-	-			-	NA	-		-	NA	-							-	NA									-	-	-	NA	15	c
5964	Whey	+	+	+M	+	+	+	PA	+M	+	+	PA	+p	+	+					+	PA	+p								+	/	+	PA	15	c
5965	Whey	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+					+	PA	+p								+	/	+	PA	15	c
5381	Milk powder 0% fat	-	-	-			-	NA	-		-	NA	-							-	NA									-	-	-	NA	15	c
5382	Milk powder 0% fat	-	-	-			-	NA	-		-	NA	-							-	NA									-	-	-	NA	15	c
5387	Milk powder 0% fat	-	-	st			-	NA	st		-	NA	st							-	NA									-	-	-	NA	15	c
5388	Milk powder 0% fat	-	-	st			-	NA	st		-	NA	st							-	NA									-	-	-	NA	15	c
5389	Milk powder 26% fat	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	+			+	PA	+p								+		+	PA	15	c
5390	Milk powder 26% fat	-	-	st			-	NA	st		-	NA	st							-	NA									-	-	-	NA	15	c
5391	Milk powder 0,8% fat	-	-	st			-	NA	st		-	NA	st							-	NA									-	-	-	NA	15	c
5392	Milk powder 14% fat	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	+			+	PA	+p								+		+	PA	15	c
5393	Milk powder 26% fat	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	+			+	PA	+p								+		+	PA	15	c
5394	Milk powder 0,8% fat	-	-	st			-	NA	st		-	NA	st							-	NA									-	-	-	NA	15	c

**MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITH OR WITHOUT PROBIOTICS INCLUDING INGREDIENTS (375 g test portion)- Specific protocol ④ - Extensions No 5 and 7**

Sample N°	Product	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	Confirmation																								Confirmation final result	ISO 6579 (Milk powders) on negative samples	Final result 18h			Agreement 18h	
				Direct streaking												Subculture SX2																		
			Result	ChromID Salmonella				XLD				ASAP				XLD				ASAP				XLD				ASAP						
Typical colonies	Before purif			Final result	Agreement	Typical colonies	Before purif	Final result	Agreement	Typical colonies	Before purif		After purif		Final result	Agreement	Typical colonies	Before purif	Typical colonies	Before purif		After purif		Typical colonies	Before purif	Typical colonies	Before purif		After purif					
	Latex	Api									Latex	Api	Latex	Api						Agg	Latex	Api	Latex				Api	Latex	Api	Latex	Api	Latex	Api	Latex
5407	Milk powder 14% fat	-	-	-	-	-	-	NA	-	-	-	NA	-	-	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	15	c
5408	Milk powder 14% fat	-	-	-	-	-	-	NA	-	-	-	NA	-	-	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	NA	15	c	
5409	Organic milk powder 0,8% fat	-	-	st	-	-	NA	st	-	-	NA	st	-	-	-	-	-	NA	-	-	st	st	-	-	-	-	-	-	-	NA	15	c		
5410	Milk powder 26% fat	-	-	-	-	-	NA	-	-	-	NA	-	-	-	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	-	NA	15	c		
5679	High density milk powder 0,6-0,7% fat	+	+	-p	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	PA	+p	+	+	+	+	+	+	+	+	+	+	PA	15	c		
5680	High density milk powder 0,6-0,7% fat	+	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	PA	+p	+	+	+	+	+	+	+	+	+	+	PA	15	c		
5681	Low density milk powder 0,6-0,7% fat	+	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	PA	+p	+	+	+	+	+	+	+	+	+	+	PA	15	c		
5682	Low density milk powder 0,6-0,7% fat	+	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	PA	+p	+	+	+	+	+	+	+	+	+	+	PA	15	c		
5683	Milk powder 26% fat	+	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	PA	+p	+	+	+	+	+	+	+	+	+	+	PA	15	c		
5684	Milk powder 26% fat	+	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	PA	+p	+	+	+	+	+	+	+	+	+	+	PA	15	c		
5685	Milk powder 0% fat	+	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	PA	+p	+	+	+	+	+	+	+	+	+	+	PA	15	c		
5686	Milk powder 0% fat	+	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	PA	+p	+	+	+	+	+	+	+	+	+	+	PA	15	c		
5687	Milk powder 0,8% fat	+	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	PA	+p	+	+	+	+	+	+	+	+	+	+	PA	15	c		
5688	Milk powder 14% fat	+	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	PA	+p	+	+	+	+	+	+	+	+	+	+	PA	15	c		

PRIMARY PRODUCTION SAMPLES (excluding drinking water) – Specific protocol ⑨ - Extension No 8 (2020)																		
Sample N°	Product	ISO 6579-1♦ Result	Alternative method: GENE-UP <i>Salmonella</i>											Confirmation final result	Final result 18h	Agreement 18h	Category	Type
			Tetrathionate for 18h at 37°C ± 1°C															
			Subculture SX2 18h at 41,5°C±1,0°C															
			PCR Result	XLD			ASAP				Typical colonies	Before purif						
Typical colonies	Before purif	After purif		Typical colonies	Latex	Api	Api	Agglu										
			Api	Api	Agg													
494	Bootssocks (pork environment)	+	+	+1/2	+		OMA	+m	+	+		OMA	+	+	PA	16	a	
495	Poultry feces	-	-	-				-					-	-	NA	16	a	
496	Poultry feces	-	-	-				-					-	-	NA	16	a	
497	Poultry feces	-	-	-				-					-	-	NA	16	a	
498	Poultry feces	-	-	-				-					-	-	NA	16	a	
500	Pork feces	-	-	-				-					-	-	NA	16	a	
502	Poultry feces	-	-	-				-					-	-	NA	16	a	
503	Pork feces	-	-	-				-					-	-	NA	16	a	
2730	<b>Poultry feces</b>	+	+	+M	+		OMA	+1/2	+	+		OMA	+	+	PA	16	a	
2731	<b>Poultry feces</b>	+	+	+M	+		OMA	+M	+	+		OMA	+	+	PA	16	a	
2732	<b>Poultry feces</b>	-	+	+M	+		OMA	+p	+	+		OMA	+	+	PD	16	a	
2733	<b>Bootssocks (poultry environment)</b>	+	-	st				st					-	-	ND	16	a	
2734	<b>Bootssocks (poultry environment)</b>	-	-	-				st					-	-	NA	16	a	
2735	<b>Pork feces</b>	-	+	+M	+		OMA	+M	+	+		OMA	+	+	PD	16	a	
2737	<b>Pork feces</b>	+	+	+M	+		OMA	+M	+	+		OMA	+	+	PA	16	a	
2943	Pork feces	-	-	-				-					-	-	NA	16	a	
2945	Bootssocks (pork)	+	+	+M	+		OMB	+1/2	+	+		OMB	+	+	PA	16	a	
3008	Bootssocks (poultry environment)	+	-	d/-				-					-	-	ND	16	a	
3013	Bootssocks (pork)	-	-	d/-				-					-	-	NA	16	a	
3014	Pork feces	-	-	-				-					-	-	NA	16	a	
3183	<b>Pork feces</b>	-	+	+M	+		OMB	+M	+	+		OMB	+	+	PD	16	a	
3185	<b>Bootssocks (poultry environment)</b>	-	-	st				st					-	-	NA	16	a	
3186	<b>Poultry litter</b>	-	-	-				-					-	-	NA	16	a	
3187	<b>Poultry feces</b>	-	+	-				+M	+	+		OMB	+	+	PD	16	a	
3188	<b>Poultry feces</b>	+	+	+M	+		OMA	+M	+	+		OMA	+	+	PA	16	a	
3308	<b>Pork feces</b>	+	-	-				-					-	-	ND	16	a	
3309	<b>Pork feces</b>	-	-	-				-					-	-	NA	16	a	
3312	<b>Poultry feces</b>	-	+	-				+m	+	+		OMB	+	+	PD	16	a	
3313	<b>Poultry feces</b>	+	-	-				-					-	-	ND	16	a	
3314	<b>Bootssocks (poultry environment)</b>	-	-	st				st					-	-	NA	16	a	

♦ Analyses performed according to the COFRAC accreditation

PRIMARY PRODUCTION SAMPLES (excluding drinking water) – Specific protocol ⑨ - Extension No 8 (2020)																	
Sample N°	Product	ISO 6579-1♦ Result	Alternative method: GENE-UP <i>Salmonella</i>										Confirmation final result	Final result 18h	Agreement 18h	Category	Type
			Tetrathionate for 18h at 37°C ± 1°C														
			Subculture SX2 18h at 41,5°C±1,0°C														
			PCR Result	XLD			ASAP				Typical colonies	Before purif					
Typical colonies	Before purif	After purif		Typical colonies	Latex	Api	Api	Agglu									
			Api	Agg													
3474	Bootssocks (poultry environment)	-	+	+M	+		OMA	+m	+	+		OMA	+	+	PD	16	a
3476	Poultry feces	+	-	-				-					-	-	ND	16	a
3478	Bootssocks (poultry environment)	+	+	+M	+		OMA	+M	+	+		OMA	+	+	PA	16	a
3480	Poultry feces	-	-	-				-					-	-	NA	16	a
3482	Poultry feces	-	+/+	-		- (+ after a subculture in MKTTn)	OMB	-			- (+ after a subculture in MKTTn)	OMB	- (+ after a subculture in MKTTn)	+	PD	16	a
493	Wipe (pork environment)	-	-	st				st					-	-	NA	16	b
499	Dust (poultry environment)	-	-	-				-					-	-	NA	16	b
501	Pork litter	-	-	-				-					-	-	NA	16	b
504	Wipe (poultry environment)	-	-	-				-					-	-	NA	16	b
505	Poultry litter	-	-	-				-					-	-	NA	16	b
2736	Dust (poultry environment)	-	+/+	st				st					- (5x)	-	PPNA	16	b
2738	Poultry litter	-	-	-				-					-	-	NA	16	b
2739	Poultry litter	-	+	+1/2	+		OMA	+M	+	+		OMA	+	+	PD	16	b
2740	Poultry litter	+	+	+M	+		OMA	+M	+	+		OMA	+	+	PA	16	b
2944	Wipe (pork)	-	+	+m	+		OMB	+m	+	+		OMB	+	+	PD	16	b
2946	Pork litter	-	-	-				-					-	-	NA	16	b
3009	Wipe (poultry environment)	-	-	d/-				+m	-	- (peudo)			-	-	NA	16	b
3010	Poultry litter	-	-	-				-					-	-	NA	16	b
3011	Sponge poultry	-	-	-				-					-	-	NA	16	b
3012	Wipe (pork)	-	-	-				-					-	-	NA	16	b
3015	Pork litter	-	-	-				-					-	-	NA	16	b
3184	Pork litter	-	+	+M	+		OMB	+m	+	+		OMB	+	+	PD	16	b
3189	Poultry litter	-	-	-				st					-	-	NA	16	b
3190	Sponge (poultry environment)	+	-	-				-					-	-	ND	16	b
3191	Sponge (poultry environment)	-	+	+M	+		OMA	+1/2	+	+		OMA	+	+	PD	16	b
3192	Swab (poultry environment)	+	+	-				+1/2	+	+		OMB	+	+	PA	16	b
3193	Swab (poultry environment)	+	+	+M	+		OMA	+m	+	+		OMA	+	+	PA	16	b
3310	Pork litter	-	-	-				-					-	-	NA	16	b
3311	Pork litter	-	-	-				-					-	-	NA	16	b
3315	Poultry litter	-	-	-				-					-	-	NA	16	b
3316	Wipe (poultry environment)	+	-	-				-					-	-	ND	16	b
3317	Swab (poultry environment)	+	+	+m	+		OMB	+M	+	+		OMB	+	+	PA	16	b

PRIMARY PRODUCTION SAMPLES (excluding drinking water) – Specific protocol ⑨ - Extension No 8 (2020)																	
Sample N°	Product	ISO 6579-1♦ Result	Alternative method: GENE-UP <i>Salmonella</i>										Confirmation final result	Final result 18h	Agreement 18h	Category	Type
			Tetrathionate for 18h at 37°C ± 1°C														
			Subculture SX2 18h at 41,5°C±1,0°C														
			PCR Result	XLD			ASAP				Typical colonies	Before purif					
Typical colonies	Before purif	After purif		Typical colonies	Latex	Api	Api	Agglu									
			Api	Api	Agg												
3318	Sponge (poultry environment)	-	+	H2S-	+		OMB	+M	+	+		OMB	+	+	PD	16	b
3475	Sponge (poultry environment)	-	+	+m	+		OMA	+m	+	+		OMA	+	+	PD	16	b
3477	Sponge (poultry environment)	-	+	+M	+		OMA	+M	+	+		OMA	+	+	PD	16	b
3479	Poultry litter	-	-	-				-					-	-	NA	16	b
3481	Poultry litter	-	-	-				-					-	-	NA	16	b





MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITH OR WITHOUT PROBIOTICS, INCLUDING EARLY LIFE NUTRITION (375 g test portion)																																						
Specific protocol ⑩ - Extension No 9 (2023)																																						
Year of analysis	Sample N°	Product	ISO 6579-1*	Alternative method: GENE-UP Salmonella																									Agreement	Category	Type							
				Pre-warmed BPW 1/10 + novobiocin 10 mg/L 20 h at 37°C																																		
				Result	Confirmation																		Subculture SX2															
					Direct streaking																		6 h at 41,5 ± 1,0°C									24 h at 41,5 ± 1,0°C						
					ChromID Salmonella				XLD				ASAP					SALMA				XLD		ASAP		SALMA		Confirmation final result				Final result 20h						
Typical colonies	Before purif	Final result	Agreement	Typical colonies	Before purif	Final result	Agreement	Typical colonies	Before purif	After purif	Final result	Agreement	Typical colonies	Before purif	Final result	Agreement	Typical colonies	Before purif	Final result	Agreement	Typical colonies	Before purif	Final result	Agreement	Typical colonies	Before purif	Final result		Agreement	Typical colonies	Before purif		Final result	Agreement				
Latex	Api	Final result	Agreement	Latex	Api	Final result	Agreement	Latex	Api	Latex	Api	Agg	Final result	Agreement	Latex	Api	Final result	Agreement	Latex	Api	Final result	Agreement	Latex	Api	Final result	Agreement	Latex	Api	Final result	Agreement	Latex	Api	Final result	Agreement				
2023	1817	Infant formula with probiotics ( <i>B.lactis</i> : 1,36.10 <sup>6</sup> UFC/g) (27,6% fat)	+	+	+1/2	+	+	+	PA	+p	+	+	+	PA	+p	+	+	+	PA	+p	+	+	+	+	+	+	+	+	+	+	+	+	+	+	PA	17	b	
2023	1818	Infant formula with probiotics ( <i>B.lactis</i> : 3,36.10 <sup>4</sup> UFCg) (26% fat)	+	+	+p	+	+	+	PA	+p	+	+	+	PA	+p	+	+	+	PA	+p	+	+	+	+	+	+	+	+	+	+	+	+	+	+	PA	17	b	
2023	1819	Infant formula with probiotics ( <i>B.lactis</i> : 2,45.10 <sup>3</sup> UFC/g) (28,2% fat)	+	+	+p	+	+	+	PA	+p	+	+	+	PA	+p	+	+	+	PA	+p	+	+	+	+	+	+	+	+	+	+	+	+	+	+	PA	17	b	
2023	2041	Infant cereals with probiotics ( <i>B.lactis</i> : 1,09.10 <sup>6</sup> UFC/g)	-	+	+p	+	+	+	PD	+p	+	+	+	PD	+p	+	+	+	PD	+p	+	+	+	+	+	+	+	+	+	+	+	+	+	+	PD	17	b	
2023	2042	Infant cereals with probiotics ( <i>B.lactis</i> : 1,09.10 <sup>6</sup> UFC/g)	-	+	+p	+	+	+	PD	+p	+	+	+	PD	+p	+	+	+	PD	+p	+	+	+	+	+	+	+	+	+	+	+	+	+	+	PD	17	b	
2023	2043	Infant cereals with probiotics ( <i>B.lactis</i> : 1,18.10 <sup>3</sup> UFC/g)	+	-	-	/	/	-	ND	-	/	-	ND	-	/	/	-	ND	-	/	/	-	ND	st	st	st	-	-	-	-	-	-	-	ND	17	b		
2023	2044	Infant cereals with probiotics ( <i>B.lactis</i> : 4,41.10 <sup>5</sup> UFC/g)	+	+	+p	+	+	+	PA	+p	+	+	+	PA	+p	+	+	+	PA	+p	+	+	+	+	+	+	+	+	+	+	+	+	+	+	PA	17	b	
2023	2045	Infant formula with probiotics ( <i>B.lactis</i> : 3,09.10 <sup>6</sup> UFC/g) (27,6% fat)	+	+	+p	+	+	+	PA	+p	+	+	+	PA	+p	+	+	+	PA	+p	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	PA	17	b
2023	2046	Infant formula with probiotics ( <i>L.reuteri</i> : 4,73.10 <sup>5</sup> UFC/g) (23% fat)	+	+	+p	+	+	+	PA	+p	+	+	+	PA	+p	+	+	+	PA	+p	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	PA	17	b
2023	2375	Infant cereals with probiotics ( <i>B.lactis</i> 1,09.10 <sup>6</sup> UFC/g)	-	-	-	/	/	-	NA	-	/	-	NA	-	/	/	-	NA	-	/	/	-	NA				-	-	-	-	-	-	-	NA	17	b		
2023	2376	Infant cereals with probiotics ( <i>B.lactis</i> : 1,45.10 <sup>6</sup> UFC/g)	-	-	st	/	/	-	NA	st	/	-	NA	st	/	/	-	NA	st	/	/	-	NA				st	st	st	-	-	-	NA	17	b			
2023	2377	Infant cereals with probiotics ( <i>B.lactis</i> : 1,36.10 <sup>4</sup> UFC/g)	-	-	-	/	/	-	NA	-	/	-	NA	-	/	/	-	NA	-	/	/	-	NA				st	st	st	-	-	-	NA	17	b			
2023	2378	Infant cereals with probiotics ( <i>B.lactis</i> : 1,18.10 <sup>3</sup> UFC/g)	-	-	st	/	/	-	NA	st	/	-	NA	st	/	/	-	NA	st	/	/	-	NA				st	st	st	-	-	-	NA	17	b			
2023	2379	Infant formula with probiotics ( <i>B.lactis</i> : 3,09.10 <sup>6</sup> UFC/g) (27,8% fat)	-	-	st	/	/	-	NA	st	/	-	NA	st	/	/	-	NA	st	/	/	-	NA				st	st	st	-	-	-	NA	17	b			
2023	2380	Infant formula with probiotics ( <i>B.lactis</i> : 3,56.10 <sup>5</sup> UFC/g) (26% fat)	-	-	st	/	/	-	NA	st	/	-	NA	st	/	/	-	NA	st	/	/	-	NA				st	st	st	-	-	-	NA	17	b			
2023	2381	Infant formula with probiotics ( <i>L.reuteri</i> : 4,73.10 <sup>5</sup> UFC/g) (24% fat)	-	-	st	/	/	-	NA	st	/	-	NA	st	/	/	-	NA	st	/	/	-	NA				st	st	st	-	-	-	NA	17	b			



MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITH OR WITHOUT PROBIOTICS, INCLUDING EARLY LIFE NUTRITION (375 g test portion)																																										
Specific protocol ⑩ - Extension No 9 (2023)																																										
Year of analysis	Sample N°	Product	ISO 6579-1*	Alternative method: GENE-UP <i>Salmonella</i>																																						
				Pre-warmed BPW 1/10 + novobiocin 10 mg/L 20 h at 37°C																																						
				Result	Confirmation																																					
					Direct streaking															Subculture SX2																						
					ChromID Salmonella					XLD					ASAP					SALMA					6 h at 41,5 ± 1,0°C					24 h at 41,5 ± 1,0°C												
Typical colonies	Before purif		Final result		Agr eement	Typical colonies	Before purif	Final result	Agr eement	Typical colonies	Before purif			Final result	Agr eement	Typical colonies	Before purif		Final result	Agr eement	Typical colonies	Before purif		Final result	Agr eement	Typical colonies	Before purif		Final result	Agr eement												
	Latex	Api		Latex							Api	Agg	Latex				Api	Latex				Api	Latex				Api	Latex			Api	Latex	Api	Latex	Api	Latex	Api					
2023	2532	Infant rice powder (26% fat)	-	-	st	/	/	-	NA	st	/	-	NA	st	/	/		/	-	NA	st	/	/	-	NA							st		st		st		-	-	NA	17	c
2023	2533	Infant rice powder (22,8% fat)	-	-	st	/	/	-	NA	st	/	-	NA	st	/	/		/	-	NA	st	/	/	-	NA							st		st		st		-	-	NA	17	c
2023	2534	Infant rice powder (24,9% fat)	-	-	st	/	/	-	NA	st	/	-	NA	st	/	/		/	-	NA	st	/	/	-	NA							st		st		st		-	-	NA	17	c
2023	2535	Infant rice powder (23,5% fat)	-	-	-	/	/	-	NA	-	/	-	NA	-	/	/		/	-	NA	-	/	/	-	NA							st		st		st		-	-	NA	17	c



















RAW MATERIAL FOR CHOCOLATE INDUSTRY (375 g test portion)  
Specific protocol 12 - Extension No 11 (2023)

Table with columns: Year of analysis, Sample N°, Product, ISO 6579-1+, Result, PCR (GU lysis kit), Confirmation, Direct streaking, Subculture SX2, ChromID Salmonella, XLD, ASAP, SALMA, Final result 22 h, Agreement, Category, Type. The table contains 20 rows of data for various products like Dextrose, Almond/hazelnut praline, Glucose powder, Peanut butter, Tapioca, Rice starch, Soy lecithin, etc.









INGREDIENTS (375 g test portion)																																																												
Protocol ④ without BACTVIAB PMAxx protocol - Extension No 10 (2023)																																																												
Year of analysis	Sample N°	Product	ISO 6579-1*	Alternative method: GENE-UP Salmonella																									Category	Type																														
				Pre-warmed BPW 1/10 for 20 h at 37°C																																																								
				Result	PCR (without PMAxx)	Confirmation															Subculture SX2																																							
						Direct streaking										6 h at 41,5 ± 1,0°C					22 h at 41,5 ± 1,0°C			Confirmation final result	Final result 20 h	Agreement																																		
						ChromID Salmonella				XLD			ASAP			SALMA		XLD		ASAP		SALMA	XLD				ASAP	SALMA																																
Typical colonies	Before purif		Final result			Agreement	Typical colonies	Before purif	Final result	Agreement	Typical colonies	Before purif	After purif	Final result	Agreement	Typical colonies	Before purif	Final result	Agreement	Typical colonies	Before purif	Final result	Agreement				Typical colonies	Before purif	Final result	Agreement	Typical colonies	Before purif	Final result	Agreement	Typical colonies	Before purif	Final result	Agreement																						
	Latex	Api		Latex	Api																																		Agg	Latex	Api	Latex	Api	Latex	Api	Latex	Api	Latex	Api	Latex	Api	Latex	Api	Latex	Api	Latex	Api			
2023	4201	Yoghurt powder	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	+p	+	+	+	PA	+p		+p									+	+	PA	20	b																					
2023	4202	Milk powder (26% fat)	-	-	st	/	/	-	NA	st	/	-	NA	st	/	/		/	-	NA	st	/	/	-	NA													-	-	NA	20	b																		
2023	4312	Lactose	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+		OMC	+	PA	+p	+	+	+	PA	+p		+p		+p									+	+	PA	20	b																	
2023	4313	Whey protein	+	+	+m	+	+	+	PA	+M	+	+	PA	+M	+	+		OMC	+	PA	+p	+	+	+	PA	+p		+p		+p										+	+	PA	20	b																
2023	4314	Maltodextrin	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+		OMC	+	PA	+p	+	+	+	PA	+p		+p		+p											+	+	PA	20	b															
2023	4459	Cream powder	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+		OMA	+	PA	+p	+	+	+	PA	+p		+p		+p												+	+	PA	20	b														
2023	4810	Cream powder	-	-	st	/	/	-	NA	st	/	-	NA	st	/	/		/	-	NA	st	/	/	-	NA																			-	-	NA	20	b												
2023	4811	Yoghurt powder	-	-	st	/	/	-	NA	st	/	-	NA	st	/	/		/	-	NA	st	/	/	-	NA																					-	-	NA	20	b										
2023	4812	Half skimmed milk powder	-	-	st	/	/	-	NA	st	/	-	NA	st	/	/		/	-	NA	st	/	/	-	NA																						-	-	NA	20	b									
2023	4813	Maltodextrin	-	-	st	/	/	-	NA	st	/	-	NA	st	/	/		/	-	NA	st	/	/	-	NA																							-	-	NA	20	b								
2023	4814	Calcium caseinate	-	-	st	/	/	-	NA	st	/	-	NA	st	/	/		/	-	NA	st	/	/	-	NA																								-	-	NA	20	b							
2023	4815	Whey	-	-	st	/	/	-	NA	st	/	-	NA	st	/	/		/	-	NA	st	/	/	-	NA																									-	-	NA	20	b						
2023	4816	Whey protein	-	-	st	/	/	-	NA	st	/	-	NA	st	/	/		/	-	NA	st	/	/	-	NA																									-	-	NA	20	b						
2023	3871	Tapioca	-	-	-A	/	/	-	NA	-A	/	-	NA	-A	/	/		/	-	NA	-A	/	/	-	NA																									-	-	NA	20	c						
2023	3872	Peanut butter	+	+	+m	+	+	+	PA	+M	+	+	PA	+ 1/2	+	+		OMA	+	PA	+m	+	+	+	PA	+ 1/2		+m		+m																		+	+	PA	20	c								
2023	3873	Corn starch	-	-	-B	/	/	-	NA	-A	/	-	NA	-A	/	/		/	-	NA	-A	/	/	-	NA																										-	-	NA	20	c					
2023	3874	Rice starch	-	-	st	/	/	-	NA	st	/	-	NA	st	/	/		/	-	NA	st	/	/	-	NA																											-	-	NA	20	c				
2023	3875	Soy lecithin	+	+	-A	/	/	-	ND	+ 1/2	+	+	PA	+ 1/2	+	+		OMA	+	PA	+ 1/2	+	+	+	PA	+ 1/2		+ 1/2		+M																				+	+	PA	20	c						
2023	3876	Marzipan	-	-	-C	/	/	-	NA	-B	/	-	NA	-B	/	/		/	-	NA	st	/	/	-	NA																											-	-	NA	20	c				
2023	4203	Sunflower lecithin	-	-	-C	/	/	-	NA	-A	/	-	NA	-B	/	/		/	-	NA	-B	/	/	-	NA																												-	-	NA	20	c			
2023	4204	Dextrose	-	-	st	/	/	-	NA	st	/	-	NA	st	/	/		/	-	NA	st	/	/	-	NA																													-	-	NA	20	c		
2023	4205	Glucose	-	-	st	/	/	-	NA	st	/	-	NA	st	/	/		/	-	NA	st	/	/	-	NA																													-	-	NA	20	c		
2023	4206	Almond and hazelnut praline	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+		OMC	+	PA	+p	+	+	+	PA	+p		+p		+p																					+	+	PA	20	c					
2023	4307	Tapioca	-	-	-A	/	/	-	NA	-A	/	-	NA	-A	/	/		/	-	NA	-A	/	/	-	NA																												-	-	NA	20	c			
2023	4308	Corn starch	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+		OMB	+	PA	+p	+	+	+	PA	+p		+p		+p																						+	+	PA	20	c				
2023	4309	Rice starch	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+		OMA	+	PA	+p	+	+	+	PA	+p		+p		+p																							+	+	PA	20	c			
2023	4310	Marzipan	-	-	st	/	/	-	NA	st	/	-	NA	st	/	/		/	-	NA	st	/	/	-	NA																													-	-	NA	20	c		
2023	4311	Soy lecithin	+	-/-	-A	/	/	-	ND	-A	/	-	ND	-A	/	/		/	-	ND	-A	/	/	-	ND																												+	+	ND	20	c			
2023	4460	Soya lecithin	-	-	-A	/	/	-	NA	-A	/	-	NA	-A	/	/		/	-	NA	-A	/	/	-	NA																														-	-	NA	20	c	
2023	4461	Dextrose	-	-	st	/	/	-	NA	st	/	-	NA	st	/	/		/	-	NA	st	/	/	-	NA																															-	-	NA	20	c
2023	4462	Glucose	-	-	st	/	/	-	NA	st	/	-	NA	st	/	/		/	-	NA	st	/	/	-	NA																															-	-	NA	20	c
2023	4947	Marzipan	-	-	st	/	/	-	NA	st	/	-	NA	st	/	/		/	-	NA	st	/	/	-	NA																															-	-	NA	20	c
2023	4948	Sunflower lecithin	+	+	+M	+	+	+	PA	+M	+	+	PA	+M	+	+		OMB	+	PA	+M	+	+	+	PA	+M		+M		+M																							+	+	PA	20	c			
2023	4954	Dextrose	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+		OMB	+	PA	+p	+	+	+	PA	+p		+p		+p																									+	+	PA	20	c	
2023	4955	Glucose	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+		OMB	+	PA	+p	+	+	+	PA	+p		+p		+p																									+	+	PA	20	c	







INGREDIENTS (375 g test portion)																																					
Protocol ④ without BACTVIAB PMAxx protocol - Extension No 10 (2023)																																					
Year of analysis	Sample N°	Product	ISO 6579-1*	Alternative method: GENE-UP Salmonella																								Confirmation	Final result 20 h	Agreement Ref/Alt	Category	Type					
				Pre-warmed BPW 1/10 for 20 h at 37°C																																	
				Result	Direct streaking												Subculture SX2																				
					ChromID Salmonella				XLD			ASAP					SALMA			6 h at 41,5 ± 1,0°C					22 h at 41,5 ± 1,0°C												
					Typical colonies	Before purif		Final result	Agreement	Typical colonies	Before purif	Final result	Agreement	Typical colonies	Before purif	After purif	Final result	Agreement	Typical colonies	Before purif	Final result	Agreement	Typical colonies	Before purif	Final result	Agreement	Typical colonies						Before purif	Final result	Agreement	Typical colonies	Before purif
Latex	Api	Latex	Api			Agg	Latex																					Api	Latex	Api	Latex	Api					
2023	3695	Yolk powder	+	+	+p	+	+	+	PA	+p (H2S-)	+	+	PA	+p	+	+	+	OMA	+	PA	+p	+	+	+	PA	+p (H2S-)	+	+	+	PA	20	a					
2023	3696	Yolk powder	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	OMA	+	PA	+p	+	+	+	PA	+p	+	+	+	PA	20	a					
2023	3697	Egg powder	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	OMA	+	PA	+p	+	+	+	PA	+p	+	+	+	PA	20	a					
2023	3698	Egg powder	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	OMA	+	PA	+p	+	+	+	PA	+p	+	+	+	PA	20	a					
2023	4200	Albumin	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	OMB	+	PA	+p	+	+	+	PA	+p	+	+	+	PA	20	a					
2023	4302	Yolk powder	-	-	st	/	/	-	NA	st	/	-	NA	st	/	/	-	/	-	NA	st	/	/	-	NA			st	st	st	-	-	NA	20	a		
2023	4835	Pasteurized egg yolk	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	OMA	+	PA	+p	+	+	+	PA	+p	+	+	+	PA	20	a					
2023	4836	Pasteurized egg yolk	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	OMB	+	PA	+p	+	+	+	PA	+p	+	+	+	PA	20	a					
2023	4837	Pasteurized liquid whole egg	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	OMA	+	PA	+p	+	+	+	PA	+p	+	+	+	PA	20	a					
2023	4838	Pasteurized liquid whole egg	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	OMB	+	PA	+p	+	+	+	PA	+p	+	+	+	PA	20	a					
2023	5082	Pasteurized egg yolk	-	-	st	/	/	-	NA	st	/	-	NA	st	/	/	-	/	-	NA	st	/	/	-	NA			st	st	st	-	-	NA	20	a		
2023	5083	Pasteurized egg yolk	-	-	st	/	/	-	NA	st	/	-	NA	st	/	/	-	/	-	NA	st	/	/	-	NA			st	st	st	-	-	NA	20	a		
2023	5084	Pasteurized liquid whole egg	-	-	st	/	/	-	NA	st	/	-	NA	st	/	/	-	/	-	NA	st	/	/	-	NA			st	st	st	-	-	NA	20	a		
2023	5085	Pasteurized liquid whole egg	-	-	st	/	/	-	NA	st	/	-	NA	st	/	/	-	/	-	NA	st	/	/	-	NA			st	st	st	-	-	NA	20	a		
2023	4949	Egg white powder	-	-	st	/	/	-	NA	st	/	-	NA	st	/	/	-	/	-	NA	st	/	/	-	NA			st	st	st	-	-	NA	20	a		
2023	4950	Whole egg powder	-	-	st	/	/	-	NA	st	/	-	NA	st	/	/	-	/	-	NA	st	/	/	-	NA			st	st	st	-	-	NA	20	a		
2023	4951	Whole egg powder	-	-	st	/	/	-	NA	st	/	-	NA	st	/	/	-	/	-	NA	st	/	/	-	NA			st	st	st	-	-	NA	20	a		
2023	4952	Egg albumin	-	-	st	/	/	-	NA	st	/	-	NA	st	/	/	-	/	-	NA	st	/	/	-	NA			st	st	st	-	-	NA	20	a		
2023	4953	Egg yolk powder	+	+	+M	+	+	+	PA	+p	+	+	PA	+p	+	+	+	OMA	+	PA	+p	+	+	+	PA	+p	+	+	+	PA	20	a					
2023	3699	Maltodextrin	+	+	+m	+	+	+	PA	+m (H2S-)	+	+	PA	+M	+	+	+	OMA	+	PA	+p	+	+	+	PA	+p (H2S-)	+M	+	+	+	PA	20	b				
2023	3700	Lactose	-	-	st	/	/	-	NA	st	/	-	NA	st	/	/	-	/	-	NA	st	/	/	-	NA			st	st	st	-	-	NA	20	b		
2023	3877	Buttermilk powder	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	OMA	+	PA	+p	+	+	+	PA	+p	+	+	+	PA	20	b					
2023	3878	Lactose	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	OMA	+	PA	+p	+	+	+	PA	+p	+	+	+	PA	20	b					
2023	3879	Whole milk powder	+	-/-	+p	+	+	-	ND	+p (1)	+	-	ND	+p (5)	+	+	+	OMA	-	ND	+p	+	+	-	ND			+p	+p	+	+	ND	20	b			
2023	3880	Calcium caseinate	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	OMA	+	PA	+p	+	+	+	PA	+p	+	+	+	PA	20	b					
2023	3881	Whey protein concentrate	-	+/+	-A	/	/	-	PPN A	-A	/	-	PPN A	-A	/	/	-	/	-	PPN A	-A	/	/	-	PPN A	-A	-A	-A	-A	-A	-A	-A	20	b			
2023	3882	Skimmed yoghurt powder	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	OMA	+	PA	+p	+	+	+	PA	+p	+	+	+	PA	20	b					
2023	4201	Yoghurt powder	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	OMC	+	PA	+p	+	+	+	PA	+p	+	+	+	PA	20	b					
2023	4202	Milk powder (26% fat)	-	-	st	/	/	-	NA	st	/	-	NA	st	/	/	-	/	-	NA	st	/	/	-	NA								-	-	NA	20	b
2023	4312	Lactose	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	OMC	+	PA	+p	+	+	+	PA	+p	+	+	+	PA	20	b					
2023	4313	Whey protein	+	+	+m	+	+	+	PA	+M	+	+	PA	+M	+	+	+	OMC	+	PA	+p	+	+	+	PA	+p	+	+	+	PA	20	b					
2023	4314	Maltodextrine	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	OMC	+	PA	+p	+	+	+	PA	+p	+	+	+	PA	20	b					
2023	4459	Cream powder	+	+	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	+	OMA	+	PA	+p	+	+	+	PA	+p	+	+	+	PA	20	b					
2023	4810	Cream powder	-	-	st	/	/	-	NA	st	/	-	NA	st	/	/	-	/	-	NA	st	/	/	-	NA			st	st	st	-	-	NA	20	b		

\* Analyses performed according to the COFRAC accreditation



Confirmatory tests: detailed results - After storage

READY TO EAT AND READY TO REHEAT (25 g test portion)- General protocol - Extension No 2																				
Sample N°	Product	Reference method: ISO 6579-1*	Alternative method: GENE-UP <i>Salmonella</i>															Category	Type	
			BPW for 18h at 37°C + 72h at 5 ± 3°C																	
			PCR BPW 72h	PCR Lysate 72h	Confirmation								Confirmation final result	Final result 72h BPW	Final result 72h Lysate	Agreement 72h BPW	Agreement 72h Lysate			
					Direct streaking				Subculture SX2											
			Result	Result	6h at 41,5°C±1,0°C															
XLD		ASAP			XLD		ASAP													
Typical colonies	Before purif	Typical colonies			Before purif	Typical colonies	Before purif	Typical colonies	Before purif											
		Api		Latex	Api		Api	Latex	Api											
6818	Citrus salad	+	+	+	-		+m	+						+	+	+	PA	PA	1	a
6820	Sandwich ham/cheese	+	+	+	+M		+m	+						+	+	+	PA	PA	1	a
6821	Sandwich ham/butter	+	+	+	+M		+M	+						+	+	+	PA	PA	1	a
6912	Mayonnaise	+	+	+	+p		+p	+						+	+	+	PA	PA	1	a
6913	Pastry	+	+	+	+m		+m	+						+	+	+	PA	PA	1	a
6914	Terrine crab/lobster	+	+	+	+p		+p	+						+	+	+	PA	PA	1	a
6915	Terrine crab/lobster	+	+	+	+p		+p	+						+	+	+	PA	PA	1	a
6916	Ham	+	+	+	+M		+M	+						+	+	+	PA	PA	1	a
6917	Pâté	+	+	+	+p		+p	+						+	+	+	PA	PA	1	a
6918	Tuna quiche	+	+	+	+p		+p	+						+	+	+	PA	PA	1	b
6919	Salmon/broccoli quiche	+	+	+	+p		+p	+						+	+	+	PA	PA	1	b
6920	Ham/cheese Pizza	+	+	+	+p		+p	+						+	+	+	PA	PA	1	b
6921	Leek pie	+	+	+	+p		+p	+						+	+	+	PA	PA	1	b
6922	Ready to reheat food	+	+	+	+p		+p	+						+	+	+	PA	PA	1	b
6923	Ready to reheat food	+	+	+	+p		+p	+						+	+	+	PA	PA	1	b
6924	Ready to reheat food	+	+	+	+p		+p	+						+	+	+	PA	PA	1	b
6925	Ready to reheat food	+	+	+	+p		+p	+						+	+	+	PA	PA	1	b
6926	Ready to reheat food	+	+	+	+p		+p	+						+	+	+	PA	PA	1	b
6927	Ready to reheat food	+	+	+	+p		+p	+						+	+	+	PA	PA	1	b
6928	Ready to reheat food	+	+	+	+m		+m	+						+	+	+	PA	PA	1	b
6929	Ready to reheat food	+	+	+	+p		+p	+						+	+	+	PA	PA	1	b
6806	Cured mackerel fillet	+	+	+	+p		+M	+						+	+	+	PA	PA	1	c
6808	Smoked salmon	+	+	+	+M		+1/2	+						+	+	+	PA	PA	1	c
6811	Smoked duck	+	+	+	+1/2		+M	+						+	+	+	PA	PA	1	c
6812	Smoked duck	+	+	+	+p		+p	+						+	+	+	PA	PA	1	c
6814	Ready to eat poultry meat	+	+	+	+p		+M	+						+	+	+	PA	PA	1	c
6815	Ready to eat poultry meat	+	+	+	+p		+M	+						+	+	+	PA	PA	1	c
6816	Ready to eat poultry meat	+	+	+	+p		+M	+						+	+	+	PA	PA	1	c
6817	Ready to eat poultry meat	+	+	+	+p		+M	+						+	+	+	PA	PA	1	c
7198	Smoked trout	+	+	+	+p		+p	+						+	+	+	PA	PA	1	c
7199	Smoked mackerel	+	+	+	+p		+p	+						+	+	+	PA	PA	1	c

\* Analyses performed according to the COFRAC accreditation

MEAT PRODUCTS (25 g test portion)- General protocol - Extension No 2																				
Sample N°	Product	Reference method: ISO 6579-1*	Alternative method: GENE-UP <i>Salmonella</i>																Category	Type
			BPW for 18h at 37°C + 72h at 5 ± 3°C																	
			PCR BPW 72h	PCR Lysate 72h	Confirmation								Confirmation final result	Final result 72h BPW	Final result 72h Lysate	Agreement 72h BPW	Agreement 72h Lysate			
					Direct streaking				Subculture SX2											
					6h at 41,5°C±1,0°C				XLD		ASAP									
Result	Result	XLD			ASAP		XLD		ASAP											
		Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif											
		Api		Latex		Api		Latex		Api										
6733	Pork kidneys	+	+	+	-	+1/2	+						+	+	+	PA	PA	2	a	
6734	Pork meat	+	+	+	-	+m	+						+	+	+	PA	PA	2	a	
6750	Pork meat	+	+	+	+m	+m	+						+	+	+	PA	PA	2	a	
1043	Ground beef	+	+	+	+md/-	-			+md/- (- at 24h)			- (+m at 24h)	+ at 24h	+	+	+	PA	PA	2	a
1044	Pork meat	+	+	+	+md/+	+md/+	+		+m/+			+m/+		+	+	+	PA	PA	2	a
1046	Ground beef	-	-	-	+md/-	-								-	-	-	NA	NA	2	a
1047	Pork meat	-	-	-	+m/-	-								-	-	-	NA	NA	2	a
1048	Ground beef	-	-	-	-	-								-	-	-	NA	NA	2	a
1049	Mechanically separated pork meat	-	-	-	+md/-	-								-	-	-	NA	NA	2	a
1597	Lamb meat	+	+	+	+M	+1/2			+M			+M	+	+	+	PA	PA	2	a	
1598	Ground beef	+	+	+	+m/+	+md/			+M			+M	+	+	+	PA	PA	2	a	
1599	Beef meat	+	+	+	+m/-	-			+md/+			+m	+	+	+	PA	PA	2	a	
1600	Beef meat	+	+	+	+m/+	+md/			+M			+M	+	+	+	PA	PA	2	a	
1601	Lamb meat	+	+	+	+m/+	+md/			+m			+M	+	+	+	PA	PA	2	a	
1602	Lamb meat	-	-	-	+m/+d	+m/-			-			-		-	-	NA	NA	2	a	
1616	Ground beef	+	+	+	-	-			+m	+		-		+	+	+	PA	PA	2	a
1623	Pork meat	+	+	+	-	-			- (+m at 24h)			- (+m at 24h)	+	+	+	PA	PA	2	a	
6742	Poultry meat	+	+	+	+m	+1/2	+							+	+	+	PA	PA	2	b
6743	Poultry meat	+	+	+	+m	+m	+							+	+	+	PA	PA	2	b
6753	Poultry meat	+	+	+	+m	+M	+							+	+	+	PA	PA	2	b
1045	Coppa	-	-	-	-	-								-	-	-	NA	NA	2	b
1050	Poultry meat	-	-	-	-	-								-	-	-	NA	NA	2	b
1051	Mechanically separated poultry meat	+	+	+	+md/+	+md/+	+		+m			+m		+	+	+	PA	PA	2	b
1052	Poultry meat	+	+	+	+md/+	+md/+	+		+md/+			+md/+		+	+	+	PA	PA	2	b
1053	Poultry meat	+	+	+	+md/+	-			+md/+ (+m at 24h)			- (+m at 24h)	+ at 24h	+	+	+	PA	PA	2	b
1054	Poultry meat	-	-	-	+md/-	-								-	-	-	NA	NA	2	b
1055	Poultry meat	-	-	-	+md/-	-								-	-	-	NA	NA	2	b
1056	Poultry meat	-	-	-	-	-								-	-	-	NA	NA	2	b
1603	Poultry meat	-	-	-	+m	Proteus mirabilis	-		-			-		-	-	-	NA	NA	2	b
1604	Poultry meat	+	+	+	-	-			+M			+1/2	+	+	+	PA	PA	2	b	
1605	Poultry meat	+	+	+	+m	+M			+M			+M	+	+	+	PA	PA	2	b	
1606	Poultry meat	-	-	-	-	-			-			-		-	-	-	NA	NA	2	b

\* Analyses performed according to the COFRAC accreditation







**DAIRY PRODUCTS (25 g test portion)- General protocol - Extension No 2**

Sample N°	Product	Reference method: ISO 6579-1*	Alternative method: GENE-UP <i>Salmonella</i>																Category	Type		
			BPW for 18h at 37°C + 72h at 5 ± 3°C														Final result 72h BPW	Final result 72h Lysate			Agreement 72h BPW	Agreement 72h Lysate
			PCR BPW 72h	PCR Lysate 72h	Confirmation								Confirmation final result									
					Direct streaking				Subculture SX2													
			Result	Result	6h at 41,5°C±1,0°C																	
XLD		ASAP			XLD		ASAP															
Typical colonies	Before purif	Typical colonies			Before purif	Typical colonies	Before purif	Typical colonies	Before purif													
			Api		Api		Api		Api		Api		Api		Api							
4691	Skimmed milk powder	+	+	+	+p		+p	+						+	+	+	PA	PA	3	c		
4692	Skimmed milk powder	+	+	+	+p		+p	+						+	+	+	PA	PA	3	c		
6892	Milk powder	+	+	+	+p		+p	+						+	+	+	PA	PA	3	c		
6893	Milk powder	+	+	+	+p		+p	+						+	+	+	PA	PA	3	c		
6894	Milk powder	+	+	+	+p		+p	+						+	+	+	PA	PA	3	c		
6897	Lactoseraum	+	+	+	+p		+p	+						+	+	+	PA	PA	3	c		
6898	Lactoseraum	+	+	+	+p		+p	+						+	+	+	PA	PA	3	c		
6899	Maltodextrin	+	+	+	+p		+p	+						+	+	+	PA	PA	3	c		
6900	Lactoseraum	+	+	+	+p		+p	+						+	+	+	PA	PA	3	c		
6901	Lactoprotein	+	+	+	+p		+p	+						+	+	+	PA	PA	3	c		
6902	Caseinate	+	+	+	+p		+p	+						+	+	+	PA	PA	3	c		
7056	Milk powder	+	+	+	+p		+p	+						+	+	+	PA	PA	3	c		
7059	Caseinate	+	+	+	+p		+p	+						+	+	+	PA	PA	3	c		
7060	Lactose	+	+	+	+p		+p	+						+	+	+	PA	PA	3	c		
7062	Caseine	+	+	+	+p		+p	+						+	+	+	PA	PA	3	c		
8075	Milk powder	+	+	+	+p		+p	+						+	+	+	PA	PA	3	c		
8076	Milk powder	+	+	+	+p		+p	+						+	+	+	PA	PA	3	c		



VEGETABLES, except sprouts, FRUITS AND SEAFOOD SAMPLES (25 g test portion)- General protocol - Extension No 2																						
Sample N°	Product	Reference method: ISO 6579-1*	Alternative method: GENE-UP <i>Salmonella</i>														Category	Type				
			BPW for 18h at 37°C + 72h at 5 ± 3°C																			
			PCR BPW 72h Result	PCR Lysate 72h Result	Confirmation								Confirmation final result	Final result 72h BPW	Final result 72h Lysate	Agreement 72h BPW			Agreement 72h Lysate			
					Direct streaking				Subculture SX2													
					6h at 41,5°C±1,0°C																	
XLD		ASAP			XLD		ASAP															
Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif															
Api		Latex		Api		Latex		Api														
2994	Pre-cooked potatoes	+	+	+	+p		+p	+						+	+	+	+	PA	PA	4	c	
2995	Chinese cabbage /salad/tomatoe/corn/zucchini/radish/parsley	+	+	+	-		-			- (- at 24h)		- (- at 24h)			- (MSRV -X5)	-	-	PPND	PPND	4	c	
1499	Mix apple/grapes	+	+	+	+M		+M	+		+p		+M			+	+	+	+	PA	PA	4	c
1500	Pineapple pieces	+	+	+	+M		+M	+		+p		+p			+	+	+	+	PA	PA	4	c
1501	Mango pieces	+	+	+	+p		+p	+		+p		+p			+	+	+	+	PA	PA	4	c
1503	Grated carrots	+	+	-/+	+m/+		+M	+		+M		+M			+	-	+	+	PA	ND	4	c
1594	Sliced zucchini	-	-	-	+md/-		-			+md/-		-			-	-	-	-	NA	NA	4	c
1595	Frozen spinach	-	-	-	+md/-		-			-		-			-	-	-	-	NA	NA	4	c









SPECIFIC INGREDIENTS AND FOODS (25 g test portion)- ISO protocol - Extension No 2																									
Sample N°	Product	Reference method: ISO 6579-1 Result	Alternative methode : GENE-UP Salmonella																		Category	Type			
			ISO Enrichment broth for 18h at 37°C + 72h at 5°C ± 3°C																						
			PCR-BPW 72h			PCR-Lysate 72h			Confirmation								Confirmation final result	Final result 72h BPW	Final result 72h Lysate	Agreement 72h BPW			Agreement 72h Lysate		
			Cp	Tm	Result	Cp	Tm	Result	Direct streaking				Subculture SX2 6h at 41,5°C±1,0°C												
									XLD		ASAP		XLD		ASAP										
Typical colonies	Before purif Api	Typical colonies	Before purif Latex	Before purif Api	Typical colonies	Before purif Api	Typical colonies	Before purif Latex	Before purif Api																
4395	Whole egg powder	+	24,03	66,39	+	23,66	66,15	+	+p		+p	+							+	+	+	PA	PA	5	c
4396	White egg powder	+	24,78	66,42	+	24,8	66,39	+	+p		+p	+							+	+	+	PA	PA	5	c
4397	White egg powder	+	0	65,92	+	23,27	66,37	+	+p		+p	+							+	+	+	PA	PA	5	c
4399	Whole egg powder	-	24,82	66,1	+	0	0	-	st		st		st (24h)		st (24h)				-(MSRV -)	-	-	PPNA	NA	5	c
4400	Whole egg powder	+	24,5	66,28	+	23,93	66,16	+	+p		+p	+							+	+	+	PA	PA	5	c
4401	Whole egg powder	+	23,1	65,9	+	24,08	66,29	+	+p		+p	+							+	+	+	PA	PA	5	c
4730	Pasteurized egg yolk	-	0	0	-	0	0	-	st		st		st (24h)		st (24h)				-	-	-	NA	NA	5	c
4731	Pasteurized egg yolk	+	27,51	65,86	+	29,48	66,01	+	+p		+p	+							+	+	+	PA	PA	5	c
4732	Pasteurized whole egg	-	0	0	-	0	0	-	st		st		st (24h)		st (24h)				-	-	-	NA	NA	5	c
4733	Pasteurized whole egg	+	25,16	66,54	+	20,98	65,92	+	+p		+p	+							+	+	+	PA	PA	5	c
5212	Whole egg powder	-	34,72/0/34,36	65,75/0/66,73	+/-/+	0	0	-	st		st		st		st				-(MSRV -)	-	-	PPNA	NA	5	c
5221	Pasteurized egg yolk	-	0	0	-	0	0	-	st		st								-	-	-	NA	NA	5	c
5629	Sweet egg yolk pasteurized egg (50%)	+	28,42	65,8	+	29,44	66,1	+	+p		+p	+							+	+	+	PA	PA	5	c
5630	Salted egg yolk pasteurized (10%)	+	27,68	66,48	+	27,24	66,6	+	+p		+p	+							+	+	+	PA	PA	5	c
1992	Pasteurized whole liquid egg	+	21,17	65,72	+	21,25	35,99	+	+p		+p	+							+	+	+	PA	PA	5	c

PRODUCTION ENVIRONMENTAL SAMPLES - General protocol - Extension No 2																						
Sample N°	Product	Reference method: ISO 6579-1* Result	Alternative method: GENE-UP <i>Salmonella</i>																Category	Type		
			BPW for 18h at 37°C + 72h at 5 ± 3°C																			
			PCR BPW 72h Result	PCR Lysate 72h Result	Confirmation												Final result 72h BPW	Final result 72h Lysate			Agreement 72h BPW	Agreement 72h Lysate
					Direct streaking						Subculture SX2											
					6h at 41,5°C±1,0°C																	
XLD					ASAP			XLD			ASAP											
Typical colonies	Before purif	Api	Typical colonies	Before purif	Api	Typical colonies	Before purif	Api	Typical colonies	Before purif	Api	Typical colonies	Before purif	Api	Confirmation final result							
7572	Residues (vegetables industry)	+	+	+	+M		+M	+							+	+	+	PA	PA	7	a	
7573	Residues (vegetables industry)	+	+	+	+M		+M	+							+	+	+	PA	PA	7	a	
7578	Residues (fish industry)	+	+	+	-		+m/+	+							+	+	+	PA	PA	7	a	
7579	Residues (fish industry)	+	+	+	+p		+p	+							+	+	+	PA	PA	7	a	
7580	Residues (fish industry)	+	-	-	-		-								-	-	-	ND	ND	7	a	
7582	Residues (fish industry)	+	+	+	+M		+M	+							+	+	+	PA	PA	7	a	
7667	Dust from dairy industry	+	+	+	st		+(6)	+							+	+	+	PA	PA	7	a	
7668	Dust from dairy industry	+	+	+	+p		+p	+							+	+	+	PA	PA	7	a	
7669	Dust from dairy industry	+	+	+	+p		+p	+							+	+	+	PA	PA	7	a	
7670	Dust from dairy industry	+	+	-/+	st		+(8)	+							+	+	-	PA	ND	7	a	
2404	Porcine environment	+	+	+	+m		+m	+		+m		+m			+	+	+	PA	PA	7	b	
2405	Porcine environment	-	-	-	+md/-		-			+md/-		-			-	-	-	NA	NA	7	b	
7350	Process water (swine industry)	+	+	+	+md/-		+md/-			+m		+m	+		+	+	+	PA	PA	7	b	
7354	Process water (swine industry)	+	+	+	-		+m/+	+		+m		+m			+	+	+	PA	PA	7	b	
7569	Cleaning water (vegetables industry)	+	+	+	+M		+M	+							+	+	+	PA	PA	7	b	
7570	Cleaning water (vegetables industry)	+	+	+	+M		+M	+							+	+	+	PA	PA	7	b	
7571	Process water (vegetables industry)	-	-	+/+	-		-								-	-	-	NA	PPNA	7	b	
7574	Process water (fish industry)	+	+	+	+M		+M	+							+	+	+	PA	PA	7	b	
7575	Process water (fish industry)	+	+	+	+M		+M	+							+	+	+	PA	PA	7	b	
7576	Process water (fish industry)	+	+	+	+M		+M	+							+	+	+	PA	PA	7	b	
7577	Process water (fish industry)	+	+	+	+m		+1/2	+							+	+	+	PA	PA	7	b	
7774	Cleaning water (delicatessen industry)	+	+	+	+M		+M	+							+	+	+	PA	PA	7	b	
7775	Cleaning water (delicatessen industry)	+	+	+	+m		+1/2	+							+	+	+	PA	PA	7	b	
7364	Wipe (swine industry)	+	+	+	+md/-		-			+m		+m	+		+	+	+	PA	PA	7	c	
7661	Wipe (vegetables industry)	+	+	+	-		-			+M (24h)		+M (24h)	+		+	+	+	PA	PA	7	c	
7662	Wipe (vegetables industry)	+	+	+	-		+m/+	+							+	+	+	PA	PA	7	c	
7663	Wipe (vegetables industry)	+	-	-	-		-								-	-	-	ND	ND	7	c	

\* Analyses performed according to the COFRAC accreditation

PRODUCTION ENVIRONMENTAL SAMPLES - General protocol - Extension No 2																				
Sample N°	Product	Reference method: ISO 6579-1* Result	Alternative method: GENE-UP <i>Salmonella</i>																Category	Type
			BPW for 18h at 37°C + 72h at 5 ± 3°C																	
			PCR BPW 72h Result	PCR Lysate 72h Result	Confirmation								Confirmation final result	Final result 72h BPW	Final result 72h Lysate	Agreement 72h BPW	Agreement 72h Lysate			
					Direct streaking				Subculture SX2											
					6h at 41,5°C±1,0°C				XLD		ASAP									
XLD		ASAP			XLD		ASAP													
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							
Api		Latex		Api		Latex		Api		Latex		Api								
7665	Wipe (dairy industry)	+	+	+	-		-			+M (24h)		+M (24h)	+		+	+	PA	PA	7	c
7666	Wipe (dairy industry)	+	+	+	+m		+m/+	+							+	+	PA	PA	7	c
7786	Wipe (delicatessen industry)	+	+	+	-		+m	+							+	+	PA	PA	7	c
7788	Wipe after cleaning (delicatessen industry)	+	+	+	+1/2		+M	+							+	+	PA	PA	7	c
7789	Wipe after cleaning (delicatessen industry)	+	+	+	+m/+		+m/+	+							+	+	PA	PA	7	c
7790	Wipe after cleaning (delicatessen industry)	+	+	+	+m/+		+1/2	+							+	+	PA	PA	7	c

**COCOA AND CHOCOLATES (375 g test portion) - Specific protocol ④ - Extension No 3**

Sample N°	Product	Reference method: ISO 6579-1♦ Result	Alternative method: GENE-UP <i>Salmonella</i>																Category	Type	
			BPW for 20h at 37°C +72h at 5°C +- 3°C																		
			PCR-72h BPW 1/10 Result	PCR-72h Lysate Result	Direct streaking				Subculture SX2				Confirmation final result	Final result 72h BPW 1/10	Final result 72h Lysate	Agreement 72h BPW 1/10	Agreement 72h Lysate				
					XLD		ASAP		XLD		ASAP										
			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			
	Api		Latex	Api		Api		Latex	Api		Latex	Api		Latex	Api						
3260	Cocoa powder (cocoa 32%)	+	+	+	+p		+M	+		+p		+p			+	+	+	PA	PA	10	a
3261	Cocoa powder (cocoa 32%)	+	+	+	+p		+M	+		+p		+p			+	+	+	PA	PA	10	a
3262	Cocoa powder (cocoa 31,7%)	+	+	+	+p		+M	+		+p		+p			+	+	+	PA	PA	10	a
3263	Cocoa powder (cocoa 31,7%)	-	+	+	+p		+M	+		+p		+p			+	+	+	PD	PD	10	a
3264	Cocoa powder (cocoa 32%)	+	-	-	st		st			st		st			-	-	-	ND	ND	10	a
3265	Cocoa powder (cocoa 32%)	+	+	+	+p		+M	+		+p		+p			+	+	+	PA	PA	10	a
3266	Cocoa powder (cocoa 32%)	-	+	+	st		st			+p		+p			+	+	+	PD	PD	10	a
3267	Cocoa powder (cocoa 32%)	+	+	+	+p		+M	+		+p		+p			+	+	+	PA	PA	10	a
3268	Cocoa powder (cocoa 21,3%)	+	+	+	+p		+M	+		+p		+p			+	+	+	PA	PA	10	a
3270	Cocoa powder (cocoa 32%)	+	+	+	+p		+p	+		+p		+p			+	+	+	PA	PA	10	a
3271	Cocoa powder (cocoa 32%)	-	+	+	+p		+p	+		+p		+p			+	+	+	PD	PD	10	a
3272	Cocoa powder (cocoa 20%)	+	-	-	-		-			-		-			-	-	-	ND	ND	10	a
3273	Cocoa powder (cocoa 20%)	-	+	+	+p		+M	+		+p		+p			+	+	+	PD	PD	10	a
3274	Cocoa powder (cocoa 32%)	+	+	+	+p		+p	+		+p		+p			+	+	+	PA	PA	10	a
3276	Cocoa powder (cocoa 32%)	+	+	+	+p		+p	+		+p		+p			+	+	+	PA	PA	10	a
3278	Cocoa powder (cocoa 20%)	+	-	-	st		st			st		st			-	-	-	ND	ND	10	a
3279	Cocoa powder (cocoa 32%)	+	-	-	-		-			-		-			-	-	-	ND	ND	10	a
6692	White chocolate	+	+	+	+M		+M	+		+M		+M			+	+	+	PA	PA	10	b
6693	Dark chocolate	-	+	+	+m		+m	+		+M		+M			+	+	+	PD	PD	10	b
6694	Nuts chocolate	+	+	+	+M		+M	+		+M		+M			+	+	+	PA	PA	10	b
6695	Nuts chocolate	+	+	+	+M		+m	+		+M		+M			+	+	+	PA	PA	10	b
6696	Milk chocolate	+	-/+	+	+p		+p	+		+p		+p			+	+	+	ND	PA	10	b
6697	Milk chocolate	+	+	+	+p		+p	+		+p		+p			+	+	+	PA	PA	10	b
6698	Dark chocolate (65% cocoa)	-	+	+	+p		+p	+		+p		+p			+	+	+	PD	PD	10	b
6699	Couverture chocolate (75% cocoa)	+	+	+	+p		+p	+		+p		+p			+	+	+	PA	PA	10	b
6681	Cocoa beans	+	-	-	-		+md	+		-		+md/+			+	-	-	ND	ND	10	c
6683	Cocoa butter	+	+	+	+p		+p	+		+p		+p			+	+	+	PA	PA	10	c
6688	Cocoa mass	+	+	+	+m		+m	+		+p		+p			+	+	+	PA	PA	10	c
6689	Cocoa mass	-	-/+	+	+m		+m	+		+p		+p			+	+	+	NA	PD	10	c
6690	Cocoa mass	+	-	-	st		st			st		st			-	-	-	ND	ND	10	c
7700	Cocoa mass	+	+	+	+p		+p	+							+	+	+	PA	PA	10	c
7701	Cocoa mass	+	+	+	+p		+p	+							+	+	+	PA	PA	10	c
7702	Cocoa mass	+	+	+	+p		+p	+							+	+	+	PA	PA	10	c
7703	Cocoa butter	+	+	+	+p		+p	+							+	+	+	PA	PA	10	c

♦ Analyses performed according to the COFRAC accreditation

COCOA AND CHOCOLATES (375 g test portion) - ISO protocol- Extension No 3																						
Sample N°	Product	Reference method: ISO 6579-1♦ Result	Alternative method: GENE-UP <i>Salmonella</i>																Category	Type		
			ISO Enrichment for 22h at 37°C + 72h at 5°C ± 3°C																			
			PCR		Confirmation												Final result BPW 72h	Final result Lysate 72h			Agreement 72h ISO 1/10 (new dilution)	Agreement 72h Lysate
			BPW 72h Result	Lysate 72h Result	Direct streaking				Subculture SX2 6h at 41,5°C±1,0°C				Final result confirmation									
					XLD		ASAP		XLD		ASAP											
Typical colonies	Before purif	Typical colonies			Before purif	Typical colonies	Before purif	Typical colonies	Before purif													
	Api		Latex	Api	Latex		Api		Api													
3260	Cocoa powder (cocoa 32%)	+	+	+	+M		+M	+		+p		+p			+	+	+	PA	PA	10	a	
3261	Cocoa powder (cocoa 32%)	+	+	+	+p		+M	+		+p		+p			+	+	+	PA	PA	10	a	
3262	Cocoa powder (cocoa 31,7%)	+	+	+	+M		+M	+		+p		+p			+	+	+	PA	PA	10	a	
3264	Cocoa powder (cocoa 32%)	+	+	+	+M		+M	+		+p		+p			+	+	+	PA	PA	10	a	
3265	Cocoa powder (cocoa 32%)	+	+	+	+p		+M	+		+p		+p			+	+	+	PA	PA	10	a	
3267	Cocoa powder (cocoa 32%)	+	+	+	+M		+M	+		+p		+p			+	+	+	PA	PA	10	a	
3268	Cocoa powder (cocoa 21,3%)	+	+	+	+m		+M	+		+p		+p			+	+	+	PA	PA	10	a	
3270	Cocoa powder (cocoa 32%)	+	+	+	+p		+p	+		+p		+p			+	+	+	PA	PA	10	a	
3272	Cocoa powder (cocoa 20%)	+	+	+	+M		+m	+		+p		+p			+	+	+	PA	PA	10	a	
3274	Cocoa powder (cocoa 32%)	+	+	+	+p		+p	+		+p		+p			+	+	+	PA	PA	10	a	
3276	Cocoa powder (cocoa 32%)	+	+	+	+M		+M	+		+p		+p			+	+	+	PA	PA	10	a	
3278	Cocoa powder (cocoa 20%)	+	+	+	+p		+p	+		+p		+p			+	+	+	PA	PA	10	a	
3279	Cocoa powder (cocoa 32%)	+	+	+	+p		+p	+		+p		+p			+	+	+	PA	PA	10	a	
4262	Milk chocolate and caramel (31% cocoa)	+	+	+	+m/+		+m/+	+							+	+	+	PA	PA	10	b	
4263	Milk chocolate (47% cocoa)	+	+	+	+p		+p	+							+	+	+	PA	PA	10	b	
5372	Dark chocolate	+	+	+	+1/2		+1/2	+		+M		+M			+	+	+	PA	PA	10	b	
5373	Dark chocolate	+	+	+	+p		+p	+		+p		+p			+	+	+	PA	PA	10	b	
5374	Dark chocolate	-	-	-	-		-			-		-			-	-	-	NA	NA	10	b	
5375	White chocolate	+	+	+	+1/2		+M	+		+p		+p			+	+	+	PA	PA	10	b	
5376	White chocolate	+	+	+	+m/+		+m/+	+		+M		+m			+	+	+	PA	PA	10	b	
5377	White chocolate	+	+	+	+m/+		+m/+	+		+M		+M			+	+	+	PA	PA	10	b	
5378	Milk chocolate	+	+	+	+M		+m	+		+M		+M			+	+	+	PA	PA	10	b	
5379	Milk chocolate	+	+	+	+m/+		+md/+	+		+m		+m			+	+	+	PA	PA	10	b	
5380	Milk chocolate	+	+	+	+m		+m	+		+M		+m			+	+	+	PA	PA	10	b	
5381	Nut chocolate	+	+	+	+md/+		-			+m		+m	+		+	+	+	PA	PA	10	b	
5382	Nut chocolate	+	-	-	+md/+	+	-			-(24h: +/- +/-)		-(24h: -/- +/-)			+	-	-	ND	ND	10	b	
4256	Cocoa butter	-	-	-	st		st								-	-	-	NA	NA	10	c	
4257	Cocoa beans	-	-	-	-		-								-	-	-	NA	NA	10	c	
4258	Crumbs	+	+	+	+p		+p	+							+	+	+	PA	PA	10	c	

♦ Analyses performed according to the COFRAC accreditation

MILK POWDERS (375 g test portion) - Specific protocol ⑤ - Extension No 3																					
Sample N°	Product	Reference method: ISO 6579-1* Result	Alternative method: GENE-UP Salmonella																Category	Type	
			BPW (1/4 dilution) + novobiocin 10mg/L for 20h at 37°C + 72h at 5°C +/- 3°C																		
			PCR-BPW 72h Result	PCR-Lysate 72h Result	Direct streaking				subculture SX2 6h at 41,5°C±1,0°C				Confirmation final result	Final result 72h BPW	Final result 72h Lysate	Agreement 72h BPW	Agreement 72h Lysate				
					XLD		ASAP		XLD		ASAP										
Typical colonies	Before purif Api	Typical colonies			Before purif Latex Api	Typical colonies	Before purif Api	Typical colonies	Before purif Latex Api												
4487	Skim milk powder	+	-	-	st		st			st		st			-	-	-	ND	ND	11	a
4488	Skim milk powder	+	+	+	+p		+p	+		+p		+p			+	+	+	PA	PA	11	a
4489	Skim milk powder	+	-	-	st		st			st		st			-	-	-	ND	ND	11	a
4490	Half-skim milk powder	-	+	+	+p		+p	+		+p		+p			+	+	+	PD	PD	11	a
4491	Milk powder	-	+	-	+p (1)		st			+p		+p	+		+	+	-	PD	NA	11	a
5540	Milk powder	-	+	+	+p		+p	+		+p		+p			+	+	+	PD	PD	11	a
5541	Skim milk powder	+	-	-	st		st			-		-			-	-	-	ND	ND	11	a
5542	Skim milk powder	+	-	-	st		st			-		-			-	-	-	ND	ND	11	a
5543	Skim milk powder	-	-	-	st		st			-		-			-	-	-	NA	NA	11	a
5544	Skim milk powder	-	-	-	st		st			-		-			-	-	-	NA	NA	11	a
7195	Skim milk powder	+	+	+	+p		+p	+							+	+	+	PA	PA	11	a
7196	Skim milk powder	-	+	+	+p		+p	+							+	+	+	PD	PD	11	a
7197	Skim milk powder	-	+	+	+p		+p	+							+	+	+	PD	PD	11	a
7198	Half-skim milk powder	+	+	+	+p		+p	+							+	+	+	PA	PA	11	a
4492	Infant formula without probiotics	-	+	+	+p		+p	+		+p		+p			+	+	+	PD	PD	11	b
4493	Infant formula without probiotics	-	+	+	+p		+p	+		+p		+p			+	+	+	PD	PD	11	b
4494	Infant formula without probiotics	+	+	-/-	st		st			+p		+p	+		+	+	-	PA	ND	11	b
4495	Infant formula without probiotics	+	+	+	+p		+p	+		+p		+p			+	+	+	PA	PA	11	b
4496	Infant formula without probiotics	+	+	+	+p		+p	+		+p		+p			+	+	+	PA	PA	11	b
5545	Infant formula without probiotics	+	+	+	+p		+p	+		+p		+p			+	+	+	PA	PA	11	b
5546	Infant formula without probiotics	+	+	+	+p		+p	+		+p		+p			+	+	+	PA	PA	11	b
5547	Infant formula without probiotics	+	+	+	+p		+p	+		+p		+p			+	+	+	PA	PA	11	b
5548	Infant formula without probiotics	+	+	+	+p		+p	+		+p		+p			+	+	+	PA	PA	11	b
5549	Infant formula without probiotics	+	+	+	+p		+p	+		+p		+p			+	+	+	PA	PA	11	b
4497	Infant formula with probiotics (3,2.10 <sup>6</sup> CFU/g)	-	-/-	-/+	+p(1)		st			+p		+p	+		+	-	-	NA	NA	11	c
4498	Infant formula with probiotics (6,4.10 <sup>5</sup> CFU/g)	+	+	+	+p		+p	+		+p		+p			+	+	+	PA	PA	11	c

\* Analyses performed according to the COFRAC accreditation

MILK POWDERS (375 g test portion) - Specific protocol ⑤ - Extension No 3																				
Sample N°	Product	Reference method: ISO 6579-1♦ Result	Alternative method: GENE-UP Salmonella																Category	Type
			BPW (1/4 dilution) + novobiocin 10mg/L for 20h at 37°C + 72h at 5°C +/- 3°C																	
			PCR-BPW 72h Result	PCR-Lysate 72h Result	Direct streaking				subculture SX2				Confirmation final result	Final result 72h BPW	Final result 72h Lysate	Agreement 72h BPW	Agreement 72h Lysate			
					6h at 41,5°C±1,0°C		XLD		ASAP		XLD							ASAP		
Typical colonies	Before purif	Typical colonies			Before purif	Typical colonies	Before purif	Typical colonies	Before purif											
Api		Latex		Api		Latex		Api												
4499	Infant formula with probiotics (5,2.10 <sup>6</sup> CFU/g)	-	-	-	st		st		st		st			-	-	-	NA	NA	11	c
4500	Infant formula with probiotics (2,3.10 <sup>6</sup> CFU/g)	-	+	+	+p		+p	+	+p		+p			+	+	+	PD	PD	11	c
4501	Infant formula with probiotics (2,0.10 <sup>5</sup> CFU/g)	+	+	+	+p		+p	+	+p		+p			+	+	+	PA	PA	11	c
5550	Infant formula with probiotics (2,0.10 <sup>7</sup> CFU/g)	+	+	+	+p		+p	+	+p		+p			+	+	+	PA	PA	11	c
5551	Infant formula with probiotics (2,4.10 <sup>5</sup> CFU/g)	+	+	+	+p		+p	+	+p		+p			+	+	+	PA	PA	11	c
5552	Infant formula with probiotics (3,0.10 <sup>5</sup> CFU/g)	+	+	+	+p		+p	+	+p		+p			+	+	+	PA	PA	11	c
5553	Infant formula with probiotics (1,4.10 <sup>7</sup> CFU/g)	+	+	+	+p		+p	+	+p		+p			+	+	+	PA	PA	11	c
5554	Infant formula with probiotics (1,0.10 <sup>7</sup> CFU/g)	+	+	+	+p		+p	+	+p		+p			+	+	+	PA	PA	11	c
5555	Infant formula with probiotics (6,7.10 <sup>6</sup> CFU/g)	+	+	+	+p		+p	+	+p		+p			+	+	+	PA	PA	11	c

PET FOOD (25 g test portion)- General protocol - Extension No 4																							
Sample N°	Product	Reference method: ISO 6579-1♦ Result	Alternative methode: GENE-UP <i>Salmonella</i>																Category	Type			
			BPW for 18h at 37°C + 72h at 5°C ± 3°C																				
			PCR BPW 72h Result	PCR Lysate 72h Result	Confirmation												Final result 72h BPW	Final result 72h Lysate			Agreement 72h BPW	Agreement 72h Lysate	
					Direct streaking						subculture SX2												Confirmation final result
					6h at 41,5°C±1,0°C																		
XLD					ASAP			XLD			ASAP												
Typical colonies	Before purif Api	Typical colonies	Before purif Latex	Api	Typical colonies	Before purif Api	Typical colonies	Before purif Latex	Api														
										6458	Sausage for dog	+	+	+	+p		+M	+					
6459	Sausage for dog	+	+	+	+M		+M	+							+	+	+	PA	PA	6	a		
6460	Pâté for dog (poultry/carrots)	+	+	+	+p		+p	+							+	+	+	PA	PA	6	a		
6461	Pâté for dog (fish/carrots)	+	+	+	+p		+p	+							+	+	+	PA	PA	6	a		
6462	Pâté for cat (beef)	+	+	+	+p		+p	+							+	+	+	PA	PA	6	a		
6463	Pâté for cat (salmon)	+	+	+	+p		+p	+							+	+	+	PA	PA	6	a		
14	Sausage for dog	-	+/-	-	st		st								-	-	-	NA	NA	6	a		
8575	Sausage for dog	+	+	+	+p		+p	+							+	+	+	PA	PA	6	a		
8576	Sausage for dog	+	+	+	+p		+p	+							+	+	+	PA	PA	6	a		
8577	Sausage for dog	+	+	+	+p		+p	+							+	+	+	PA	PA	6	a		
8578	Pâté for dog (beef)	+	+	+	+p		+p	+							+	+	+	PA	PA	6	a		
8579	Pâté for cat (beef)	+	+	+	+p		+p	+							+	+	+	PA	PA	6	a		
8580	Pâté for cat (chiken)	+	+	+	+p		+p	+							+	+	+	PA	PA	6	a		
8581	Pâté for cat (salmon)	+	+	+	+p		+p	+							+	+	+	PA	PA	6	a		
8582	Pâté for dog (duck/vegetables)	+	+	+	+p		+p	+							+	+	+	PA	PA	6	a		
8583	Pâté for dog (beef/carrots)	+	+	+	+p		+p	+							+	+	+	PA	PA	6	a		
8584	Pâté for dog (poultry)	+	+	+	+p		+p	+							+	+	+	PA	PA	6	a		
6419	Pellets for dog (beef/vegetables)	+	+	+	+M		+M	+							+	+	+	PA	PA	6	b		
6421	Pellets for dog (beef)	+	+	+	+m		+m	+							+	+	+	PA	PA	6	b		
6422	Pellets for cat (rabbit/poultry/vegetables/cereals)	+	+	+	+1/2		+1/2	+							+	+	+	PA	PA	6	b		
6423	Pellets for cat (salmon/tuna/vegetables)	+	+	+	+m		+m	+							+	+	+	PA	PA	6	b		
6424	Pellets for cat (liver)	+	+	+	+M		+1/2	+							+	+	+	PA	PA	6	b		
9107	Rodent food	+	+	+	+M		+M	+							+	+	+	PA	PA	6	b		
9108	Bird food	+	+	+	+M		+M	+							+	+	+	PA	PA	6	b		
9109	Guinea pig food	+	+	+	+M		+M	+							+	+	+	PA	PA	6	b		
9111	Pellets for cat (beef/ poultry/ vegetables)	+	+	+	+M		+M	+							+	+	+	PA	PA	6	b		
9112	Pellets for cat (chiken/duck/vegetables)	+	+	+	+M		+M	+							+	+	+	PA	PA	6	b		
9114	Pellets for dog (beef)	+	+	+	+M		+M	+							+	+	+	PA	PA	6	b		
9115	Pellets for cat (beef/poultry/vegetables)	+	+	+	+M		+M	+							+	+	+	PA	PA	6	b		
9117	Pellets for cat (tuna/ salmon/ cereals/ vegetables)	+	+	+	+M		+M	+							+	+	+	PA	PA	6	b		
9624	Pellets for cat (tuna, salmon, cereals, vegetables)	+	+	+	+p		+p	+							+	+	+	PA	PA	6	b		
9625	Pellets for dog (beef)	+	+	+	+p		+p	+							+	+	+	PA	PA	6	b		

♦ Analyses performed according to the COFRAC accreditation



PET FOOD (375 g test portion)- Specific protocol ⑥ - Extension No 4																					
Sample N°	Product	Reference method: ISO 6579-1♦ Result	Alternative method: GENE-UP Salmonella																Category	Type	
			BPW 1/6 20h 41,5°C +72h 5°C ± 3°C																		
			PCR-BPW 72h Result	PCR-Lysate 72h Result	Confirmation										Confirmation final result	Final result 72h BPW	Final result 72h Lysate	Agreement 72h BPW			Agreement 72h Lysate
					Direct streaking				Subculture SX2												
			6h at 41,5°C±1,0°C				XLD		ASAP		XLD		ASAP								
Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif										
Api	Latex	Api	Latex	Api	Latex	Api	Latex	Api	Latex	Api	Latex										
6458	Sausage for dog	+	+	+	+p		+p							+	+	+	PA	PA	12	a	
6459	Sausage for dog	+	+	+	+p		+p							+	+	+	PA	PA	12	a	
6460	Pâté for dog (poultry/carrots)	+	+	+	+p		+p							+	+	+	PA	PA	12	a	
6461	Pâté for dog (fish/carrots)	+	+	+	+p		+p							+	+	+	PA	PA	12	a	
6462	Pâté for cat (beef)	+	+	+	+p		+p							+	+	+	PA	PA	12	a	
6463	Pâté for cat (salmon)	+	+	+	+p		+p							+	+	+	PA	PA	12	a	
8575	Sausage for dog	+	+	+	+p		+p	+						+	+	+	PA	PA	12	a	
8576	Sausage for dog	+	+	+	+p		+p	+						+	+	+	PA	PA	12	a	
8577	Sausage for dog	+	+	+	+p		+p	+						+	+	+	PA	PA	12	a	
8578	Pâté for dog (beef)	+	+	+	+p		+p	+						+	+	+	PA	PA	12	a	
8579	Pâté for cat (beef)	+	+	+	+p		+p	+						+	+	+	PA	PA	12	a	
8580	Pâté for cat (chicken)	+	+	+	+p		+p	+						+	+	+	PA	PA	12	a	
8581	Pâté for cat (salmon)	+	+	+	+p		+p	+						+	+	+	PA	PA	12	a	
8582	Pâté for dog (duck/vegetables)	+	+	+	+p		+p	+						+	+	+	PA	PA	12	a	
8583	Pâté for dog (beef/carrots)	+	+	+	+p		+p	+						+	+	+	PA	PA	12	a	
8584	Pâté for dog (poultry)	+	+	+	+p		+p	+						+	+	+	PA	PA	12	a	
6419	Pellets for dog (beef/vegetables)	+	+	+	+M		+M	+						+	+	+	PA	PA	12	b	
6421	Pellets for dog (beef)	+	+	+	+1/2		+1/2	+						+	+	+	PA	PA	12	b	
6422	Pellets for cat (rabbit/poultry/vegetables/cereals)	+	-	-	-		-							-	-	-	ND	ND	12	b	
6423	Pellets for cat (salmon/tuna/vegetables)	+	+	+	+m/+		+m/+	+						+	+	+	PA	PA	12	b	
6424	Pellets for cat (liver)	+	-	-	-		-							-	-	-	ND	ND	12	b	
8516	Rabbit food	-	-	-	st		st			+p		+p	+	+	-	-	NA	NA	12	b	
8519	Pellets for dog	-	+	+	+p		+p	+		+p		+p		+	+	+	PD	PD	12	b	
8520	Pellets for dog (poultry, cereals, vegetables)	+	-	-	-		-			st		-		-	-	-	ND	ND	12	b	
8521	Pellets for dog	-	+	+	+p		+p	+		+p		+p		+	+	+	PD	PD	12	b	
8522	Pellets for cat (beef, poultry, vegetables)	+	-	-	st		st			st		st		-	-	-	ND	ND	12	b	
8523	Pellets for cat (tuna, salmon, cereals, vegetables)	+	-	-	-		-			-		-		-	-	-	ND	ND	12	b	
9120	Pellets for dog (salmon/oat)	+	+	+	+p		+M	+		+M		+M		+	+	+	PA	PA	12	b	
9121	Pellets for cat (salmon/barley)	-	+	+	+p		+M	+		+p		+p		+	+	+	PD	PD	12	b	
9122	Pellets for dog (poultry/barley)	+	-	-	-		-			-		-		-	-	-	ND	ND	12	b	
9523	Bird food	+	+	+										+	+	+	PA	PA	12	b	
9524	Rabbit food	+	-/+	+										+	-	+	ND	PA	12	b	

♦ Analyses performed according to the COFRAC accreditation

PET FOOD (375 g test portion)- ISO protocol - Extension No 4																					
Sample N°	Product	Reference method: ISO 6579-1♦ Result	Alternative method: GENE-UP <i>Salmonella</i>																Category	Type	
			BPW 1/10 for 20h at 37°C +72h at 5°C ± 3°C																		
			PCR-BPW 72h	PCR-Lysate 72h	Confirmation										Final result 72h BPW	Final result 72h Lysate	Agreement 72h BPW	Agreement 72h Lysate			
					Direct streaking					Subculture SX2											
			Result	Result	6h at 41,5°C±1,0°C					Confirmation final result											
XLD		ASAP			XLD		ASAP														
Typical colonies	Before purif Api	Typical colonies			Before purif Latex	Before purif Api	Typical colonies	Before purif Api	Typical colonies		Before purif Latex	Before purif Api									
6458	Sausage for dog	+	+	+	+m		+m/+	+							+	+	+	PA	PA	12	a
6459	Sausage for dog	+	+	+	+p		+p	+							+	+	+	PA	PA	12	a
6460	Pâté for dog (poultry/carrots)	+	+	+	+p		+p	+							+	+	+	PA	PA	12	a
6461	Pâté for dog (fish/carrots)	+	+	+	+p		+p	+							+	+	+	PA	PA	12	a
6462	Pâté for cat (beef)	+	+	+	+p		+p	+							+	+	+	PA	PA	12	a
6463	Pâté for cat (salmon)	+	+	+	+p		+p	+							+	+	+	PA	PA	12	a
8575	Sausage for dog	+	+	+	+p		+p	+							+	+	+	PA	PA	12	a
8576	Sausage for dog	+	+	+	+p		+p	+							+	+	+	PA	PA	12	a
8577	Sausage for dog	+	+	+	+p		+p	+							+	+	+	PA	PA	12	a
8578	Pâté for dog (beef)	+	+	+	+p		+p	+							+	+	+	PA	PA	12	a
8579	Pâté for cat (beef)	+	+	+	+p		+p	+							+	+	+	PA	PA	12	a
8580	Pâté for cat (chiken)	+	+	+	+p		+p	+							+	+	+	PA	PA	12	a
8581	Pâté for cat (salmon)	+	+	+	+p		+p	+							+	+	+	PA	PA	12	a
8582	Pâté for dog (duck/vegetables)	+	+	+	+p		+p	+							+	+	+	PA	PA	12	a
8583	Pâté for dog (beef/carrots)	+	+	+	+p		+p	+							+	+	+	PA	PA	12	a
8584	Pâté for dog (poultry)	+	+	+	+p		+m	+							+	+	+	PA	PA	12	a
6419	Pellets for dog (beef/vegetables)	+	+	+	+M		+M	+							+	+	+	PA	PA	12	b
6421	Pellets for dog (beef)	+	+	+	+m/+		+m/+	+							+	+	+	PA	PA	12	b
6422	Pellets for cat (rabbit/poultry/vegetables/cereals)	+	+	+	+md/+		+md/+	+							+	+	+	PA	PA	12	b
6423	Pellets for cat (salmon/tuna/vegetables)	+	+	+	+1/2		+1/2	+							+	+	+	PA	PA	12	b
6424	Pellets for cat (liver)	+	+	+	+M		+M	+							+	+	+	PA	PA	12	b
8516	Rabbit food	-	-	-	st		st		st		st				-	-	-	NA	NA	12	b
8519	Pellets for dog	-	-	-	-		-		-		-				-	-	-	NA	NA	12	b
8520	Pellets for dog (poultry, cereals, vegetables)	+	+	+	+p		+p	+	+p		+p				+	+	+	PA	PA	12	b
8521	Pellets for dog	-	-	-	-		-		-		-				-	-	-	NA	NA	12	b
8522	Pellets for cat (beef, poultry, vegetables)	+	+	+	+p		+p	+	+p		+p				+	+	+	PA	PA	12	b
8523	Pellets for cat (tuna, salmon, cereals, vegetables)	+	+	+	+p		+p	+	+p		+p				+	+	+	PA	PA	12	b
9118	Pellets for dog (poultry/rice/cereals)	+	+	+	+p		+M	+	+p		+p				+	+	+	PA	PA	12	b
9120	Pellets for dog (salmon/oat)	+	+	+	+M		+m	+	+p		+p				+	+	+	PA	PA	12	b
9122	Pellets for dog (poultry/barley)	+	+	+	+M		+M	+	+M		+p				+	+	+	PA	PA	12	b
9521	Rabbit food	+	+	-											+	+	-	PA	ND	12	b
9522	Guinea pig food	+	-/-	-/-											+	-	-	ND	ND	12	b
9523	Bird food	+	+	+											+	+	+	PA	PA	12	b
9524	Rabbit food	+	-/-	-/-											+	-	-	ND	ND	12	b
9622	Pellets for cat (tuna, salmon, cereals, vegetables)	+	+	+	+p		+p								+	+	+	PA	PA	12	b
9623	Pellets for dog (beef)	+	+	+	+p		+p								+	+	+	PA	PA	12	b

♦ Analyses performed according to the COFRAC accreditation

MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITHOUT PROBIOTICS INCLUDING INGREDIENTS (25g test portion)- General protocol - Extension n° 5																				
Sample N°	Product	Reference method: ISO 6579-1* Result	Alternative method : GENE-UP <i>Salmonella</i>																Category	Type
			Storage for 72 h at 5°C ± 3°C																	
			PCR BPW 72 h Final result	PCR Lysate 72 h Final result	Confirmation								Confirmation final result	Final Result 72 h BPW	Final result 72 h Lysate	Agreement 72 h BPW	Agreement 72 h Lysate			
					Direct streaking				Subculture SX2 6 h at 41,5°C±1,0°C											
XLD		ASAP		XLD		ASAP		Typical colonies	Before purif	Typical colonies	Before purif	Typical colonies	Before purif	Final Result 72 h BPW	Final result 72 h Lysate	Agreement 72 h BPW	Agreement 72 h Lysate			
Typical colonies	Before purif Api	Typical colonies	Before purif Late x Api	Typical colonies	Before purif	Typical colonies	Before purif Late x Api													
4643	Skim milk powder	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	13	a
4644	Skim milk powder	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	13	a
4645	Skim milk powder	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	13	a
4646	Skim milk powder	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	13	a
4647	Whole milk powder	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	13	a
4648	Skim milk powder	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	13	a
4673	Infant formula without probiotics	+	+	+	+p		+p	+		+p		+p		+	+	-	PA	ND	13	a
4675	Infant formula without probiotics	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	13	a
4676	Infant formula without probiotics	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	13	a
4677	Infant formula without probiotics	+	+	+	st x 5		st x 5			st x 5 (6h and 24h)		st x 5 (6h and 24h)		- (MSRV 5 x -)	-	-	PPND	PPND	13	a
4650	Infant cereals without probiotics	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	13	b
4651	Infant cereals without probiotics	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	13	b
4652	Infant cereals without probiotics	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	13	b
4653	Infant cereals without probiotics	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	13	b
4654	Infant cereals without probiotics	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	13	b
4655	Infant cereals without probiotics	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	13	b
4656	Infant cereals without probiotics	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	13	b
4657	Infant cereals without probiotics	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	13	b
4658	Infant cereals without probiotics	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	13	b
4659	Infant cereals without probiotics	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	13	b
4660	Infant cereals without probiotics	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	13	b
4661	Maltodextrin	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	13	c
4662	Maltodextrin	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	13	c
4663	Maltodextrin	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	13	c
4665	Starch	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	13	c
4667	Caseinate	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	13	c
4668	Caseinate	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	13	c
4669	Lactose	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	13	c
4670	Lactose	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	13	c
4671	Whey	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	13	c
4672	Whey	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	13	c

\* Analyses performed according to the COFRAC accreditation

INFANT FORMULA AND INFANT CEREALS WITH PROBIOTICS ( 25 g test portion)- Specific protocol ⑦- Extension n° 5																				
Sample N°	Product	Reference method: ISO 6579-1* Result	Alternative method : GENE-UP <i>Salmonella</i>																Category	Type
			Storage for 72 h at 5°C ± 3°C																	
			PCR BPW 72 h Final result	PCR Lysate 72 h Final result	Confirmation								Confirmation final result	Final Result 72 h BPW	Final result 72 h Lysate	Agreement 72 h BPW	Agreement 72 h Lysate			
					Direct streaking				subculture SX2											
					XLD		ASAP		XLD		ASAP									
Typical colonies	Before purif Api	Typical colonies			Before purif Latex Api	Typical colonies	Before purif Api	Typical colonies	Before purif Latex Api											
4679	Infant formula with probiotics (2,7.10 <sup>5</sup> CFU/g)	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	14	a
4680	Infant formula with probiotics (1,6.10 <sup>5</sup> CFU/g)	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	14	a
4681	Infant formula with probiotics (1,8.10 <sup>4</sup> CFU/g)	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	14	a
4682	Infant formula with probiotics (6,7.10 <sup>3</sup> CFU/g)	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	14	a
4683	Infant formula with probiotics (1,9.10 <sup>4</sup> CFU/g)	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	14	a
4684	Infant formula with probiotics (4,6.10 <sup>3</sup> CFU/g)	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	14	a
4685	Infant formula with probiotics (2,1.10 <sup>4</sup> CFU/g)	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	14	a
4686	Infant formula with probiotics (1,8.10 <sup>4</sup> CFU/g)	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	14	a
4687	Infant formula with probiotics (6,8.10 <sup>5</sup> CFU/g)	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	14	a
4688	Infant formula with probiotics (7,0.10 <sup>5</sup> CFU/g)	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	14	a
4689	Infant formula with probiotics (3,2.10 <sup>6</sup> CFU/g)	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	14	a
4690	Infant formula with probiotics (3,0.10 <sup>5</sup> CFU/g)	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	14	a
4691	Infant formula with probiotics (3,0.10 <sup>4</sup> CFU/g)	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	14	a
4692	Infant formula with probiotics (1,6.10 <sup>6</sup> CFU/g)	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	14	a
4693	Infant formula with probiotics (6,0.10 <sup>4</sup> CFU/g)	-	+	+	+p		+p	+		+p		+p		+	+	+	PD	PD	14	a
4694	Infant formula with probiotics (1,4.10 <sup>4</sup> CFU/g)	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	14	a
4695	Infant formula with probiotics (2,5.10 <sup>5</sup> CFU/g)	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	14	a
4696	Infant cereals with probiotics (8,8.10 <sup>4</sup> CFU/g)	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	14	b
4697	Infant cereals with probiotics (2,5.10 <sup>5</sup> CFU/g)	-	+	+	+p		+p	+		+p		+p		+	+	+	PD	PD	14	b
4698	Infant cereals with probiotics (1,1.10 <sup>5</sup> CFU/g)	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	14	b
4699	Infant cereals with probiotics (2,1.10 <sup>4</sup> CFU/g)	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	14	b
4700	Infant cereals with probiotics (6,7.10 <sup>5</sup> CFU/g)	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	14	b
4701	Infant cereals with probiotics (5,6.10 <sup>5</sup> CFU/g)	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	14	b
4702	Infant cereals with probiotics (7,8.10 <sup>5</sup> CFU/g)	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	14	b
4703	Infant cereals with probiotics (1,3.10 <sup>4</sup> CFU/g)	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	14	b
4704	Infant cereals with probiotics (3,1.10 <sup>4</sup> CFU/g)	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	14	b
4705	Infant cereals with probiotics (3,6.10 <sup>4</sup> CFU/g)	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	14	b
4706	Infant cereals with probiotics (4,0.10 <sup>4</sup> CFU/g)	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	14	b
4707	Infant cereals with probiotics (8,3.10 <sup>3</sup> CFU/g)	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	14	b
4708	Infant cereals with probiotics (1,6.10 <sup>4</sup> CFU/g)	-	+	+	+p		+p	+		+p		+p		+	+	+	PD	PD	14	b
4709	Infant cereals with probiotics (8,0.10 <sup>3</sup> CFU/g)	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	14	b
4710	Infant cereals with probiotics (3,6.10 <sup>4</sup> CFU/g)	+	-	-	st		st							-	-	-	ND	ND	14	b
4711	Infant cereals with probiotics (1,8.10 <sup>4</sup> CFU/g)	-	+	+	+p		+p	+		+p		+p		+	+	+	PD	PD	14	b

\* Analyses performed according to the COFRAC accreditation

MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITH OR WITHOUT PROBIOTICS INCLUDING INGREDIENTS (375 g test portion)- Specific protocol ⑧ - Extension n° 5																					
Sample N°	Product	Reference method: ISO 6579-1* Result	Alternative method GENE-UP Salmonella																Category	Type	
			Storage for 72 h at 5°C ± 3°C																		
			PCR BPW 72 h Final result	PCR Lysate 72 h Final result	Confirmation										Confirmation final result	Final result 72 h BPW	Final result 72 h Lysate	Agreement 72 h BPW			Agreement 72 h Lysate
					Direct streaking				subculture SX2												
					XLD		ASAP		XLD		ASAP										
Typical colonies	Before purif Api	Typical colonies	Before purif Latex Api	Typical colonies	Before purif Api	Typical colonies	Before purif Latex	Before purif Api	Typical colonies	Before purif Latex	Before purif Api										
												4879	Skim milk powder	+	+	+	+p		+p	+	
4880	Skim milk powder	+	+	+	-		+m	+		+m		+1/2			+	+	+	PA	PA	15	a
4881	Skim milk powder	+	+	+	+p		+p	+		+p		+p			+	+	+	PA	PA	15	a
4882	Half-skim milk powder	+	+	+	+p		+p	+		+p		+p			+	+	+	PA	PA	15	a
4883	Infant formula without probiotics	+	+	+	+p		+p	+		+p		+p			+	+	+	PA	PA	15	a
4884	Infant formula without probiotics	+	+	+	+p		+p	+		+p		+p			+	+	+	PA	PA	15	a
4885	Infant formula without probiotics	+	+	+	+p		+p	+		+p		+p			+	+	+	PA	PA	15	a
4886	Infant cereals without probiotics	+	+	+	+p		+p	+		+p		+p			+	+	+	PA	PA	15	a
4887	Infant cereals without probiotics	-	+	+	+p		+p	+		+p		+p			+	+	+	PD	PD	15	a
4888	Infant cereals without probiotics	+	+	+	+p		+p	+		+p		+p			+	+	+	PA	PA	15	a
4889	Infant cereals with probiotics (2,9.10 <sup>5</sup> CFU/g)	+	+	+	+p		+p	+		+p		+p			+	+	+	PA	PA	15	a
4890	Infant cereals with probiotics (4,8.10 <sup>4</sup> CFU/g)	+	+	+	+p		+M	+		+p		+p			+	+	+	PA	PA	15	a
4891	Infant cereals with probiotics (1,2.10 <sup>7</sup> CFU/g)	+	+	+	+M		+M	+		+p		+p			+	+	+	PA	PA	15	a
4892	Infant formula with probiotics (1,6.10 <sup>6</sup> CFU/g)	+	+	+	+p		+p	+		+p		+p			+	+	+	PA	PA	15	a
4893	Infant formula with probiotics (1,5.10 <sup>6</sup> CFU/g)	+	+	+	+p		+p	+		+p		+p			+	+	+	PA	PA	15	a
4894	Infant formula with probiotics (9,6.10 <sup>6</sup> CFU/g)	+	+	+	+p		+p	+		+p		+p			+	+	+	PA	PA	15	a
4895	Starch	+	+	+	+p		+p	+		+p		+p			+	+	+	PA	PA	15	a
4896	Whey	+	+	+	+p		+p	+		+p		+p			+	+	+	PA	PA	15	b
4897	Caseinates	+	+	+	+p		+p	+		+p		+p			+	+	+	PA	PA	15	b
4898	Lactose	+	+	+	+p		+p	+		+p		+p			+	+	+	PA	PA	15	b
4899	Caseinate	-	+	+	+p		+p	+		+p		+p			+	+	+	PD	PD	15	b
4900	Starch	+	+	+	+p		+p	+		+p		+p			+	+	+	PA	PA	15	b
4901	Starch	+	-	-	st		st								-	-	-	ND	ND	15	b
4902	Lactose	+	+	+	+p		+p	+		+p		+p			+	+	+	PA	PA	15	b
4903	Starch	+	+	+	+p		+p	+		+p		+p			+	+	+	PA	PA	15	b
4904	Whey	+	+	+	+p		+p	+		+p		+p			+	+	+	PA	PA	15	b
4905	Starch	-	+	+	+p		+p	+		+p		+p			+	+	+	PD	PD	15	b
4906	Maltodextrin	+	+	+	+p		+p	+		+p		+p			+	+	+	PA	PA	15	b
4907	Maltodextrin	+	+	+	+p		+p	+		+p		+p			+	+	+	PA	PA	15	b
4908	Maltodextrin	+	+	+	+p		+p	+		+p		+p			+	+	+	PA	PA	15	b
4909	Maltodextrin	+	+	+	+p		+p	+		+p		+p			+	+	+	PA	PA	15	b
4910	Starch	-	+	+	+p		+p	+		+p		+p			+	+	+	PD	PD	15	b

\* Analyses performed according to the COFRAC accreditation

MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITH OR WITHOUT PROBIOTICS INCLUDING INGREDIENTS (375 g test portion) Specific protocol ④ - Extensions n° 5 and 7																					
Sample N°	Product	Reference method: ISO 6579-1* Result	Alternative method: GENE-UP <i>Salmonella</i>																Category	Type	
			Storage for 72h at 5°C ± 3°C																		
			PCR- BPW 72h Result	PCR- Lysate 72h Result	Confirmation										Confirmation final result	Final result 72h BPW	Final result 72h Lysate	Agreement 72h BPW			Agreement 72h Lysate
					Direct streaking					Subculture SX2											
					6h at 41,5°C±1,0°C																
XLD		ASAP			XLD		ASAP														
Typical colonies	Before purif Api	Typical colonies	Before purif Latex	Before purif Api	Typical colonies	Before purif Api	Typical colonies	Before purif Latex	Before purif Api												
4988	Caseine	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	15	c	
4990	Starch	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	15	c	
4991	Caseinate	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	15	c	
4992	Maltodextrin	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	15	c	
4993	Starch	+	+	+	+M		+M	+		+M		+p		+	+	+	PA	PA	15	c	
4997	Maltodextrin	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	15	c	
5000	Starch	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	15	c	
5001	Lactose	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	15	c	
5002	Maltodextrin	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	15	c	
5003	Lactose	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	15	c	
5005	Starch	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	15	c	
5006	Starch	-	-	-	-		-			-		-		-	-	-	NA	NA	15	c	
5007	Maltodextrin	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	15	c	
5008	Lactose	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	15	c	
5009	Caseinate	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	15	c	
5014	Maltodextrin	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	15	c	
5016	Lactose	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	15	c	
5017	Whey	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	15	c	
5948	Starch	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	15	c	
5949	Starch	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	15	c	
5950	Starch	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	15	c	
5951	Starch	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	15	c	
5952	Starch	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	15	c	
5953	Starch	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	15	c	
5954	Caseinate	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	15	c	
5955	Caseinate	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	15	c	
5956	Maltodextrin	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	15	c	
5957	Maltodextrin	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	15	c	
5958	Lactose	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	15	c	
5959	Lactose	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	15	c	
5960	Lactose	+	+	+	+p		+p	+		+p		+p		+	+	+	PA	PA	15	c	

\* Analyses performed according to the COFRAC accreditation

MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITH OR WITHOUT PROBIOTICS INCLUDING INGREDIENTS (375 g test portion) Specific protocol ④ - Extensions n° 5 and 7																					
Sample N°	Product	Reference method: ISO 6579-1* Result	Alternative method: GENE-UP <i>Salmonella</i>																Category	Type	
			Storage for 72h at 5°C ± 3°C																		
			PCR- BPW 72h Result	PCR- Lysate 72h Result	Confirmation										Confirmation final result	Final result 72h BPW	Final result 72h Lysate	Agreement 72h BPW			Agreement 72h Lysate
					Direct streaking					Subculture SX2											
					6h at 41,5°C±1,0°C																
XLD		ASAP			XLD		ASAP														
Typical colonies	Before purif Api	Typical colonies	Before purif		Typical colonies	Before purif Api	Typical colonies	Before purif													
			Latex	Api				Latex	Api												
5961	Lactose	+	+	+	+p		+p	+		+p		+p			+	+	+	PA	PA	15	c
5962	Whey	+	+	+	+p		+p	+		+p		+p			+	+	+	PA	PA	15	c
5964	Whey	+	+	+	+M		+p	+		+M		+p			+	+	+	PA	PA	15	c
5965	Whey	+	+	+	+p		+p	+		+p		+p			+	+	+	PA	PA	15	c
5389	Milk powder 26% fat	+	+	+	+p	+	+p	+	+	+p		+p			+	+	+	PA	PA	15	c
5392	Milk powder 14% fat	+	+	+	+p	+	+p	+	+	+p		+p			+	+	+	PA	PA	15	c
5393	Milk powder 26% fat	+	-/+	+	+p	+	+p	+	+	+p		+p			-	-	+	ND	PA	15	c
5679	High density milk powder 0,6-0,7% fat	+	+	+	+p	+	+p	+	+	+p		+p			+	+	+	PA	PA	15	c
5680	High density milk powder 0,6-0,7% fat	+	+	+	+p	+	+p	+	+	+p		+p			+	+	+	PA	PA	15	c
5681	Low density milk powder 0,6-0,7% fat	+	+	+	+p	+	+p	+	+	+p		+p			+	+	+	PA	PA	15	c
5682	Low density milk powder 0,6-0,7% fat	+	+	+	+p	+	+p	+	+	+p		+p			+	+	+	PA	PA	15	c
5683	Milk powder 26% fat	+	+	+	+p	+	+p	+	+	+p		+p			+	+	+	PA	PA	15	c
5684	Milk powder 26% fat	+	+	+	+p	+	+p	+	+	+p		+p			+	+	+	PA	PA	15	c
5685	Milk powder 0% fat	+	+	+	+p	+	+p	+	+	+p		+p			+	+	+	PA	PA	15	c
5686	Milk powder 0% fat	+	+	+	+p	+	+p	+	+	+p		+p			+	+	+	PA	PA	15	c
5687	Milk powder 0,8% fat	+	+	+	+p	+	+p	+	+	+p		+p			+	+	+	PA	PA	15	c
5688	Milk powder 14% fat	+	+	+	+p	+	+p	+	+	+p		+p			+	+	+	PA	PA	15	c

PRIMARY PRODUCTION SAMPLES (excluding drinking water)- Specific protocol ⑨ - Extension No 8 (2020)																	
Sample N°	Product	ISO 6579-1* Result	Alternative method : GENE-UP <i>Salmonella</i>												Category	Type	
			Tetrathionate for 18h at 37°C ± 1°C														
			Subculture SX2 18h at 41.5°C ± 1°C + 72h at 5°C ± 3°C														
			PCR SX2 72h	PCR Lysate 72h	XLD			ASAP			Confirmation final result	Final result 72h (SX2)	Final result 72h Lysate (SX2)	Agreement 72h (SX2)			Agreement 72h Lysate (SX2)
Result	Result	Typical colonies	Before purif		Typical colonies	Before purif											
			Api	Latex	Api												
494	Bootssocks (pork environment)	+	+	+	+1/2	+	+m	+	+	+	+	+	+	PA	PA	16	a
2730	Poultry feces	+	+	+	+M	+	+M	+	+	+	+	+	+	PA	PA	16	a
2731	Poultry feces	+	+	+	+M	+	+M	+	+	+	+	+	+	PA	PA	16	a
2732	Poultry feces	-	+	+	+M	+	+M	+	+	+	+	+	+	PD	PD	16	a
2733	Bootssocks (poultry environment)	+	-	-	st		st							ND	ND	16	a
2735	Pork feces	-	+	+	+M	+	+M	+	+	+	+	+	+	PD	PD	16	a
2737	Pork feces	+	+	+	+M	+	+M	+	+	+	+	+	+	PA	PA	16	a
2943	Pork feces	-	-	-	-		-							NA	NA	16	a
2945	Bootssocks (pork)	+	+	+	+M	+	+1/2	+	+	+	+	+	+	PA	PA	16	a
3008	Bootssocks (poultry environment)	+	-	-	-		-							ND	ND	16	a
3183	Pork feces	-	+	+	+M	+	+M	+	+	+	+	+	+	PD	PD	16	a
3187	Poultry feces	-	+	+	-		+M	+	+	+	+	+	+	PD	PD	16	a
3188	Poultry feces	+	+	+	+M	+	+M	+	+	+	+	+	+	PA	PA	16	a
3308	Pork feces	+	-	-	-		-							ND	ND	16	a
3309	Pork feces	-	-	-	-		-							NA	NA	16	a
3312	Poultry feces	-	+	+	-		+m	+	+	+	+	+	+	PD	PD	16	a
3313	Poultry feces	+	-	-	-		-							ND	ND	16	a
3474	Bootssocks (poultry environment)	-	+	+	+M	+	+m	+	+	+	+	+	+	PD	PD	16	a
3476	Poultry feces	+	-	-										ND	ND	16	a
3478	Bootssocks (poultry environment)	+	+	+	+M	+	+M	+	+	+	+	+	+	PA	PA	16	a
3482	Poultry feces	-	+	+	-	- (+ after a subculture in MKTTn)	-	- (+ after a subculture in MKTTn)	- (+ after a subculture in MKTTn)	- (+ after a subculture in MKTTn)	- (+ after a subculture in MKTTn)	+	+	PD	PD	16	a
2736	Dust (poultry environment)	-	-	+/+	st		st							NA	PPNA	16	b
2739	Poultry litter	-	+	+	+1/2	+	+M	+	+	+	+	+	+	PD	PD	16	b
2740	Poultry litter	+	+	+	+M	+	+M	+	+	+	+	+	+	PA	PA	16	b
2944	Wipe (pork)	-	+	+	+M	+	+m	+	+	+	+	+	+	PD	PD	16	b
2946	Pork litter	-	-	-	-		-							NA	NA	16	b
3009	Wipe (poultry environment)	-	-	-	-		-							NA	NA	16	b
3184	Pork litter	-	+	+	+m	+	+m	+	+	+	+	+	+	PD	PD	16	b
3190	Sponge (poultry environment)	+	-	-	-		-							ND	ND	16	b
3191	Sponge (poultry environment)	-	+	+	+M	+	+m	+	+	+	+	+	+	PD	PD	16	b
3192	Swab (poultry environment)	+	+	+	-		+1/2	+	+	+	+	+	+	PA	PA	16	b
3193	Swab (poultry environment)	+	+	+	+M	+	+m	+	+	+	+	+	+	PA	PA	16	b
3310	Pork litter	-	-	-	d	- (Shewanella)	-							NA	NA	16	b

\* Analyses performed according to the COFRAC accreditation



PRIMARY PRODUCTION SAMPLES (excluding drinking water)- Specific protocol ⑨ - Extension No 8 (2020)																
Sample N°	Product	ISO 6579-1* Result	Alternative method : GENE-UP <i>Salmonella</i>												Category	Type
			Tetrathionate for 18h at 37°C ± 1°C													
			Subculture SX2 18h at 41.5°C ± 1°C + 72h at 5°C ± 3°C													
			PCR SX2 72h	PCR Lysate 72h	XLD			ASAP			Confirmation final result	Final result 72h (SX2)	Final result 72h Lysate (SX2)	Agreement 72h (SX2)		
Result	Result	Typical colonies	Before purif		Typical colonies	Before purif										
			Api		Latex	Api										
3316	Wipe (poultry environment)	+	-	-	-		-				-	-	ND	ND	16	b
3317	Swab (poultry environment)	+	+	+	+m	+	+M	+	+		+	+	PA	PA	16	b
3318	Sponge (poultry environment)	-	+	+	H2S-	+	+M	+	+		+	+	PD	PD	16	b
3475	Sponge (poultry environment)	-	+	+	+m	+	+m	+	+		+	+	PD	PD	16	b
3477	Sponge (poultry environment)	-	+	+	+M	+	+M	+	+		+	+	PD	PD	16	b



MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITH OR WITHOUT PROBIOTICS, INCLUDING EARLY LIFE NUTRITION (375 g test portion)  
Specific protocol ⑩- Extension No 9 (2023)

Alternative method: GENE-UP *Salmonella*

Pre-warmed BPW 1/10 + novobiocin 10 mg/L 20h at 37°C +72h at 5 ± 3°C

Year of analysis	Sample N°	Product	ISO 6579-1*	Confirmation																							Confirmation final result	Final result 72h BPW	Final result 72h Lysate	Agreement 72h BPW	Agreement 72h Lysate	Category	Type					
				PCR-BPW 72 h			PCR-Lysate 72 h			Direct streaking												Subculture SX2																
				Cp	Tm	Result	Cp	Tm	Result	ChromID Salmonella				XLD				ASAP				SALMA				XLD								ASAP		SALMA		
										Typical colonies	Before purif	Final result	Agreement	Typical colonies	Before purif	Final result	Agreement	Typical colonies	Before purif	Final result	Agreement	Typical colonies	Before purif	Final result	Agreement	Typical colonies								Before purif	Final result	Agreement	Typical colonies	Before purif
				Latex		Api	Latex		Api	Latex		Api	Latex		Api	Latex		Api	Latex		Api	Latex		Api	Latex									Api	Latex		Api	
2023	1819	3,36.10 <sup>4</sup> UFC/g) (26% fat) Infant formula with probiotics ( <i>B.lactis</i> : 2,45.10 <sup>3</sup> UFC/g) (28,2% fat)	+	19.83	65.91	+	18.63	65.39	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	17	b									
2023	2041	Infant cereals with probiotics ( <i>B.lactis</i> : 1,09.10 <sup>6</sup> UFC/g)	-	17.87	65.17	+	28.28	65.34	+	+p	+	+	PD	+p	+	+	PD	+p	+	+	PD	+p	+	+	+	PD	PD	17	b									
2023	2042	Infant cereals with probiotics ( <i>B.lactis</i> : 1,09.10 <sup>6</sup> UFC/g)	-	17.80	65.00	+	26.18	65.80	+	+p	+	+	PD	+p	+	+	PD	+p	+	+	PD	+p	+	+	+	PD	PD	17	b									
2023	2043	Infant cereals with probiotics ( <i>B.lactis</i> : 1,18.10 <sup>3</sup> UFC/g)	+	0	0	-	0	0	-	st	/	-	ND	st	/	-	ND	st	/	-	ND	st	st	st	st	st	st	st	17	b								
2023	2044	Infant cereals with probiotics ( <i>B.lactis</i> : 4,41.10 <sup>5</sup> UFC/g)	+	18.33	65.15	+	28.49	65.82	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	17	b									
2023	2045	Infant formula with probiotics ( <i>B.lactis</i> : 3,09.10 <sup>6</sup> UFC/g) (27,6% fat)	+	24.10	65.34	+	30.93	65.64	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	17	b									
2023	2046	Infant formula with probiotics ( <i>L.reuteri</i> : 4,73.10 <sup>5</sup> UFC/g) (23% fat)	+	19.79	65.09	+	26.73	65.61	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	17	b									
2023	1805	Thickened powder	+	18.44	65.40	+	18.11	64.57	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	17	c									
2023	1806	Infant rice protein with probiotics ( <i>B.lactis</i> : 2,73.10 <sup>2</sup> UFC/g) (21,5% fat)	+	24.82	65.17	+	23.57	65.13	+	+m	+	+	PA	+m	+	+	PA	+m	+	+	PA	+m	+	+	+	PA	PA	17	c									
2023	1807	Infant powder without lactose with probiotics ( <i>L.reuteri</i> : 1,0.10 <sup>6</sup> UFC/g) (25,5% fat)	+	20.93	65.16	+	20.76	64.61	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	17	c									
2023	1810	Infant rice protein (24,9% fat)	+	18.87	65.67	+	18.08	65.36	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	17	c									



**RAW MATERIAL FOR CHOCOLATE INDUSTRY (375 g test portion)**  
**Specific protocol ⑪ - Extension No 9 (2023)**

**Alternative method: GENE-UP Salmonella**

Pre-warmed BPW 1/10 + BACTBOOST 10 h at 37°C +72 h at 5 ± 3°C

Year of analysis	Sample N°	Product	ISO 6579-1♦	Confirmation																								Confirmation final result	Final result 72 h BPW - 10 h	Final result 72 h Lysate -10 h	Agreement 72 h BPW 10 h	Agreement 72 h Lysate 10 h	Category	Type						
				PCR- BPW 72 h (GU lysis PREP)						PCR- Lysate 72 h (GU lysis PREP)						Direct streaking																			Subculture SX2					
				6 h at 41,5 ± 1,0°C						Direct streaking												Subculture SX2																		
				ChromID Salmonella			XLD			ASAP			SALMA			XLD		ASAP		SALMA		XLD		ASAP		SALMA														
				Cp	Tm	Result	Cp	Tm	Result	Typical colonies	Before purif	Final result	Agreement	Typical colonies	Before purif	Final result	Agreement	Typical colonies	Before purif	Final result	Agreement	Typical colonies	Before purif	Final result	Agreement	Typical colonies	Before purif								Final result	Agreement				
Latex		Api	Latex		Api	Latex		Api	Latex		Api	Latex		Api	Latex		Api	Latex		Api	Latex		Api	Latex		Api														
2023	2514	Cocoa powder	-	0	0	-	0	0	-	st	/	-	NA	st	/	-	NA	st	/	-	NA	st	/	-	NA	-	-	-	NA	NA	18	a								
2023	2515	Cocoa liquor	+	32.78	65.83	+	0/35.52/0	0/65.97/0	-/+/-	+p (5)	+	+	PA	+p (1)	+	+	PA	+p (5)	+	+	PA	+p (3)	+	+	PA	+p	+	+	PA	ND	18	a								
2023	2516	Cocoa mass	+	20.82	65.73	+	26.53	66.23	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	PA	18	a								
2023	2801	Cocoa mass	-	27.51	66.43	+	31.50	66.09	+	+p	+	+	PD	+p	+	+	PD	+p	+	+	PD	+p	+	+	PD	+p	+	+	PD	PD	18	a								
2023	2802	Cocoa butter (non-deodorised)	-	31.59	66.16	+	33.75	65.71	+	+p	+	+	PD	+p	+	+	PD	+p	+	+	PD	+p	+	+	PD	+p	+	+	PD	PD	18	a								
2023	2803	Cocoa powder (100%)	+	34.81	66.29	+	35.10	65.84	+	+p (1)	+	+	PA	st/st (x2); + (x3)	+	+	PA	+p	+	+	PA	st / st(x4); + (1)	+	+	PA	+p	+	+	PA	PA	18	a								
2023	2804	Alkalized cocoa powder	+	32.76	66.05	+	33.46	65.85	+	+p	+	+	PA	+p(6)	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	PA	18	a								
2023	2806	Cocoa mass	+	0	0	-	35.72/0/0	66.03/0/0	+/-	st		-	ND	st		-	ND	st	/	-	ND	st	/	-	ND	-	-	-	ND	ND	18	a								
2023	2807	Cocoa butter (non-deodorised)	+	0	0	-	0	0	-	st		-	ND	st		-	ND	st	/	-	ND	st	/	-	ND	-	-	-	ND	PPND	18	a								
2023	3079	Chocolate (pellets)	+	16.47	66.19	+	34.72	66.10	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	PA	18	a								
2023	3082	Cocoa liquor	-	16.52	65.83	+	32.06	65.90	+	+p	+	+	PD	+p	+	+	PD	+p	+	+	PD	+p	+	+	PD	+p	+	+	PD	PD	18	a								
2023	3083	Cocoa powder	+	18.29	66.30	+	34.60	65.86	+	+p (5)	+	+	PA	+p (9)	+	+	PA	+p (3)	+	+	PA	+p	+	+	PA	+p (2)	+	+	PA	PA	18	a								
2023	2507	Whey	+	22.28	66.61	+	30.56	65.95	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	PA	18	b								
2023	2509	Whey protein concentrate	+	0	0	-	0	0	-	st	/	-	ND	st	/	-	ND	st	/	-	ND	st	/	-	ND	-	-	-	ND	ND	18	b								
2023	2510	Lactose	+	23.87	66.52	+	30.45	65.74	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	PA	18	b								
2023	2740	Cream powder	+	0	0	-	0	0	-	st		-	ND	st		-	ND	st	/	-	ND	st	/	-	ND	-	-	-	ND	ND	18	b								
2023	2809	Cream powder	+	25.48	66.18	+	28.15	65.86	+	+1/2	+	+	PA	+p H2S-	+	+	PA	+p	+	+	PA	+M	+	+	PA	+p H2S-	+	+	PA	PA	18	b								
2023	2811	Buttermilk powder	+	26.52	65.86	+	29.03	65.72	+	+p	+	+	PA	+p H2S-	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p H2S-	+	+	PA	PA	18	b								
2023	2812	Yogurt powder	+	29.09	65.94	+	32.77	66.04	+	+p	+	+	PA	+p H2S-	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p H2S-	+	+	PA	PA	18	b								
2023	3084	Milk powder	+	21.51	65.93	+	27.52	65.71	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p (2)	+	+	PA	+p	+	+	PA	PA	18	b								
2023	3088	Cream powder	+	25.63	65.76	+	31.22	65.66	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	PA	18	b								

♦ Analyses performed according to the COFRAC accreditation

**RAW MATERIAL FOR CHOCOLATE INDUSTRY (375 g test portion)**  
**Specific protocol ⑪ - Extension No 9 (2023)**

**Alternative method: GENE-UP Salmonella**

Pre-warmed BPW 1/10 + BACTBOOST 10 h at 37°C +72 h at 5 ± 3°C

Year of analysis	Sample N°	Product	ISO 6579-1♦	Confirmation																								Confirmation final result	Final result 72 h BPW - 10 h	Final result 72 h Lysate - 10 h	Agreement 72 h BPW 10 h	Agreement 72 h Lysate 10 h	Category	Type						
				PCR- BPW 72 h (GU lysis PREP)									PCR- Lysate 72 h (GU lysis PREP)									Direct streaking													Subculture SX2					
				Cp			Tm			Result	Cp			Tm			Result	ChromID Salmonella		XLD		ASAP		SALMA		XLD									ASAP		SALMA			
				Cp	Tm	Result	Cp	Tm	Result		Typical colonies	Before purif		Final result	Agreement	Typical colonies		Before purif		Final result	Agreement	Typical colonies	Before purif		Final result	Agreement	Typical colonies								Before purif		Final result	Agreement		
										Latex		Api	Api				Api	Latex	Api				Latex	Api											Latex	Api			Latex	Api
2023	3089	Yogurt powder	+	27.72	65.94	+	33.45	65.88	+	+p	+	+	PA	+p (9)	+	PA	+p (10)	+	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+	+	+	PA	PA	18	b
2023	2512	Rice starch	-	20.43	66.17	+	26.59	66.19	+	+p	+	+	PD	+p	+	PD	+p	+	+	+	PD	+p	+	+	PD	+p	+	+	PD	+p	+	+	PD	PD	18	c				
2023	2733	Peanut butter	-	24,3	66,71	+	27,93	66,53	+	+1/2	+	+	PD	+p	+	PD	+1/2	+	+	+	PD	+p	+	+	PD	+p	+	+	PD	+p	+	+	PD	PD	18	c				
2023	2736	Marzipan	+	0	0	-	0	0	-	st		-	ND	st	-	ND	st	/	-	ND	st	/	-	ND														18	c	
2023	2738	Almond/haze Inut praline (30% fat)	+	25,63	66,35	+	27,92	66,25	+	+M	+	+	PA	+p	+	PA	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	PA	18	c				
2023	2739	Glucose (powder)	+	26,18	66,51	+	30,02	66,25	+	+p	+	+	PA	+p	+	PA	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	PA	18	c				
2023	3080	Peanut butter	+	20,52	65,98	+	30,29	65,63	+	+p	+	+	PA	+p	+	PA	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	PA	18	c				
2023	3081	Tapioca	+	27,29	66,13	+	32,61	65,83	+	+m(2)	+	+	PA	-	-	ND	+m (1)	+	+	+	PA	-	/	-	ND	+1/2	+	+	PA	PA	18	c								
2023	3085	Rice starch	+	18,27	66,32	+	30,55	65,70	+	+p	+	+	PA	+p	+	PA	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	PA	18	c				
2023	3086	Dextrose	+	28,66	66,32	+	31,73	65,99	+	+p	+	+	PA	+p	+	PA	+p	+	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	PA	18	c				
2023	3087	Soy lecithin	+	17,04	65,89	+	29,46	66,08	+	+p	+	+	PA	+M	+	PA	+M	+	+	+	PA	+p	+	+	PA	+M	+	+	PA	+M	+	+	PA	PA	18	c				











CHOCOLATE AND CONFECTIONARIES (375 g test portion) Protocol ④ without BACTVIAB PMAxx Extension No 10 (2023)																																					
Year of analysis	Sample N°	Product	ISO 6579-1*	Alternative method: GENE-UP <i>Salmonella</i>																								Category	Type								
				Pre-warmed BPW or UHT skimmed milk 1/10 for 22 h at 37°C + 72 h at 5 ± 3°C																																	
				PCR-BPW 72 h (without PMAxx)									PCR-Lysate 72 h (without PMAxx)									Confirmation								Subculture SX2							
				Direct streaking			6 h at 41,5 ± 1,0°C						22 h at 41,5 ± 1,0°C																								
Cp	Tm	Result	Cp	Tm	Result	ChromID Salmonella			XLD			ASAP			SALMA			XLD		ASAP		SALMA		XLD		ASAP		SALMA		Confirmation final result	Final result 72 h BPW	Final result 72 h Lysate	Agreement 72 h BPW	Agreement 72 h Lysate			
						Typical colonies	Before purif	Final result	Agreement	Typical colonies	Before purif	Final result	Agreement	Typical colonies	Before purif	Final result	Agreement	Typical colonies	Before purif	Final result	Agreement	Typical colonies	Before purif	Final result	Agreement	Typical colonies	Before purif	Final result	Agreement	Typical colonies	Before purif	Final result	Agreement				
2023	3686	Alkalized cocoa powder	+	27.17	66.13	+	30.93	65.53	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	+	+	+	+	
2023	3687	Fat reduced alkalized cocoa powder	+	23.65	65.68	+	30.45	64.89	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	+	+	+	+	
2023	3688	Chocolate mass	+	33.97	65.69	+	35.55	65.36	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	+	+	+	+	
2023	3689	Cocoa butter (non-deodorised)	+	26.27	66.23	+	28.90	65.62	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	+	+	+	+	
2023	3884	Cocoa mass	+	23.73	66.31	+	20.50	65.75	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	+	+	+	+	
2023	3885	Cocoa liquor	+	24.17	66.18	+	21.96	65.88	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	+	+	+	+	
2023	4193	Cocoa liquor	+	24.33	66.61	+	24.22	66.37	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	+	+	+	+	
2023	4292	Cocoa mass	+	23.56	66.39	+	23.83	66.65	+	+M	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	+	+	+	+	
2023	4293	Cocoa butter	+	25.27	66.10	+	25.77	66.27	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	+	+	+	+	
2023	4944	Cocoa liquor	+	24.09	66.46	+	24.67	66.31	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	+	+	+	+	
2023	3691	White chocolate	+	0/0/35.75	0/0/65.67	-/-/+	0/0/0	0/0/0	-/-/+	+p	+	+	ND	+p	+	+	ND	+p	+	+	ND	+p	+	+	ND	+p	+	+	+	+	+	+	+	+	+	+	
2023	3692	Dark chocolate	+	26.01	66.16	+	30.01	65.91	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	+	+	+	+	
2023	3693	Milk chocolate	+	34.46	65.03	+	0/35.24/35.57	0/65.73/65.69	-/+/+	+m	+	+	PA	+m	+	+	PA	+p	+	+	PA	+m	+	+	PA	+m	+	+	+	+	+	+	+	+	+	+	+
2023	3920	Dark chocolate (50% cocoa)	+	27.84	66.66	+	28.94	65.25	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	+	+	+	+	+
2023	3922	Dark chocolate (48% cocoa)	+	27.74	66.51	+	32.63	65.60	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	+	+	+	+	+
2023	3924	Milk chocolate (30% cocoa)	+	29.49	65.58	+	32.30	65.60	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	+	+	+	+	+
2023	3926	White chocolate (34% cocoa)	+	27.00	66.05	+	31.76	65.41	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	+	+	+	+	+
2023	4296	Dark chocolate (65% cocoa)	+	24.03	66.11	+	24.55	66.27	+	+M	+	+	PA	+p	+	+	PA	+M	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	+	+	+	+	+
2023	4298	Milk chocolate (34,1% cocoa)	+	24.34	66.27	+	25.97	66.16	+	+M	+	+	PA	+M	+	+	PA	+M	+	+	PA	+p	+	+	PA	+p	+	+	+	+	+	+	+	+	+	+	+

\* Analyses performed according to the COFRAC accreditation

CHOCOLATE AND CONFECTIONARIES (375 g test portion) Protocol ④ without BACTVIAB PMAxx Extension No 10 (2023)																																		
Year of analysis	Sample N°	Product	ISO 6579-1*	Alternative method: GENE-UP <i>Salmonella</i>																								Category	Type					
			Result	Pre-warmed BPW or UHT skimmed milk 1/10 for 22 h at 37°C + 72 h at 5 ± 3°C																														
				PCR-BPW 72 h (without PMAxx)			PCR-Lysate 72 h (without PMAxx)			Confirmation																								
				Cp	Tm	Result	Cp	Tm	Result	Direct streaking									Subculture SX2															
ChromID Salmonella										XLD			ASAP		SALMA		6 h at 41,5 ± 1,0°C			22 h at 41,5 ± 1,0°C														
Typical colonies		Before purif	Final result	Agreement	Typical colonies		Before purif	Final result	Agreement	Typical colonies		Before purif	Final result	Agreement	Typical colonies		Before purif	Final result	Agreement	Typical colonies		Before purif	Final result	Agreement	Typical colonies		Before purif	Final result	Agreement					
Latex	Api	Api			Latex	Api	Latex			Api	Latex	Api			Latex	Api	Latex			Api	Latex	Api			Latex	Api	Latex			Api	Latex	Api	Confirmation final result	Final result 72 h BPW
2023	4945	Black chocolate (65% cocoa)	+	26.95	66.15	+	27.78	65.83	+	m	+	+	PA	+1/2	+	PA	+1/2	+	+	+	PA	+m	+	+	+	PA	+1/2	+	+	+	PA	PA	19	b
2023	4946	Milk chocolate (41% cocoa)	+	26.14	66.26	+	25.85	65.40	+	p	+	+	PA	+p	+	PA	+p	+	+	+	PA	+p	+	+	+	PA	+p	+	+	+	PA	PA	19	b
2023	3928	Mars	+	30.13	65.70	+	31.68	65.65	+	p	+	+	PA	+p	+	PA	+p	+	+	+	PA	+p	+	+	+	PA	+p	+	+	+	PA	PA	19	c
2023	3930	Maltesers	+	33.00	65.80	+	34.49	65.50	+	p	+	+	PA	+p	+	PA	+p	+	+	+	PA	+p	+	+	+	PA	+p	+	+	+	PA	PA	19	c
2023	4194	Lion	+	30.05	65.68	+	29.98	66.16	+	m	+	+	PA	+1/2	+	PA	+m	+	+	+	PA	+1/2	+	+	+	PA	+M	+	+	+	PA	PA	19	c
2023	4195	Kinder country	+	27.85	66.50	+	27.78	66.28	+	p	+	+	PA	+p	+	PA	+p	+	+	+	PA	+p	+	+	+	PA	+p	+	+	+	PA	PA	19	c
2023	4196	Smarties	+	28.79	66.40	+	28.13	66.38	+	p	+	+	PA	+p	+	PA	+p	+	+	+	PA	+p	+	+	+	PA	+p	+	+	+	PA	PA	19	c
2023	4199	Reeses's	+	30.64	65.79	+	30.18	66.19	+	p	+	+	PA	+p	+	PA	+p	+	+	+	PA	+p	+	+	+	PA	+p	+	+	+	PA	PA	19	c
2023	4299	M&M's with peanuts (26% fat)	+	29.22	66.16	+	30.42	66.37	+	p	+	+	PA	+M	+	PA	+p	+	+	+	PA	+p	+	+	+	PA	+p	+	+	+	PA	PA	19	c
2023	4300	Twix	+	30.25	66.22	+	30.74	66.21	+	p	+	+	PA	+p	+	PA	+p	+	+	+	PA	+p	+	+	+	PA	+p	+	+	+	PA	PA	19	c
2023	4457	Daim	+	21.77	66.24	+	26.44	66.55	+	p	+	+	PA	+p	+	PA	+p	+	+	+	PA	+p	+	+	+	PA	+p	+	+	+	PA	PA	19	c
2023	4458	Kitkat	+	25.36	65.39	+	28.93	66.16	+	p	+	+	PA	+p	+	PA	+p	+	+	+	PA	+p	+	+	+	PA	+M	+	+	+	PA	PA	19	c

**INGREDIENTS (375 g test portion)**  
**Protocol ④ without BACTVIAB PMAxx protocol - Extension No 10 (2023)**

**Alternative method: GENE-UP Salmonella**

Pre-warmed BPW 1/10 for 20 h at 37°C + 72 h at 5 ± 3°C

Year of analysis	Sample N°	Product	ISO 6579-1*	Confirmation																								Confirmation final result	Final result 72 h BPW	Final result 72 h Lysate	Agreement 72 h BPW	Agreement 72 h Lysate	Category	Type						
				PCR-BPW 72 h (without PMAxx)									PCR-Lysate 72 h (without PMAxx)									Direct streaking													Subculture SX2					
				Cp	Tm	Result	Cp	Tm	Result	ChromID Salmonella			XLD			ASAP			SALMA			6 h at 41,5 ± 1,0°C		22 h at 41,5 ± 1,0°C																
										Typical colonies	Before purif	Final result	Typical colonies	Before purif	Final result	Typical colonies	Before purif	Final result	Typical colonies	Before purif	Final result	Typical colonies	Before purif	Final result	Typical colonies	Before purif	Final result								Typical colonies	Before purif	Final result			
				Latex		Api	Latex		Api	Latex		Api	Latex		Api	Latex		Api	Latex		Api	Latex		Api	Latex		Api								Latex		Api			
2023	3694	Egg white powder	+	20.57	65.65	+	29.27	65.97	+	M	+	PA	+m	+	PA	+p	+	+	PA	+p	+	+	PA	+M	+	+	+	PA	PA	20	a									
2023	3695	Egg white powder	+	22.20	65.79	+	29.79	65.90	+	p	+	PA	+m (H2S-)	+	PA	+p	+	+	PA	+p	+	+	PA	+p (H2S-)	+	+	+	PA	PA	20	a									
2023	3696	Egg yolk powder	+	21.52	64.97	+	30.51	66.18	+	p	+	PA	+p	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	20	a									
2023	3697	Egg powder	+	21.64	65.65	+	31.46	66.12	+	p	+	PA	+p	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	20	a									
2023	3698	Egg powder	+	22.02	65.22	+	30.03	65.28	+	p	+	PA	+p	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	20	a									
2023	4200	Egg albumin	+	21.43	66.24	+	20.91	65.91	+	p	+	PA	+p	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	20	a									
2023	4835	Pasteurized egg yolk	+	29.11	65.72	+	32.73	66.20	+	p	+	PA	+p	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	20	a									
2023	4836	Pasteurized egg yolk	+	29.64	65.42	+	33.09	65.90	+	p	+	PA	+p	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	20	a									
2023	4837	Pasteurized liquid whole egg	+	23.16	65.74	+	31.02	66.20	+	p	+	PA	+p	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	20	a									
2023	4838	Pasteurized liquid whole egg	+	25.82	65.56	+	32.71	66.08	+	p	+	PA	+p	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	20	a									
2023	4953	Egg yolk powder	+	28.50	65.44	+	34.52	65.26	+	p	+	PA	+p	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	20	a									
2023	3699	Maltodextrin	+	20.08	65.63	+	30.91	65.31	+	m	+	PA	+p	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	20	b									
2023	3877	Buttermilk powder	+	25.55	65.85	+	23.27	65.19	+	p	+	PA	+p	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	20	b									
2023	3878	Lactose	+	19.57	65.52	+	20.88	65.95	+	p	+	PA	+p	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	20	b									
2023	3879	Whole milk powder	+	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	/	-	PPND	st	-	PPND	st	/	-	PPND	st	/	-	PPND				st	st	st	-	-	-	PPND	PPND	20	b			
2023	3880	Calcium caseinate	+	21.57	64.83	+	21.89	65.23	+	p	+	PA	+p	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	20	b									
2023	3881	Whey protein concentrate	-	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	/	-	PPNA	-A	-	PPNA	-A	/	-	PPNA	-A	/	-	PPNA							-	-	-	PPNA	PPNA	20	b			

\* Analyses performed according to the COFRAC accreditation



**CHOCOLATE AND CONFECTIONARIES**  
**Extension No 10, 2023 - Protocol ④ with BACTVIAB PMAxx protocol**

Year of analysis	Sample N°	Product	ISO 6579-1*	Alternative method: GENE-UP <i>Salmonella</i>																								Category	Type					
			Result	Pre-warmed BPW or UHT skimmed milk 1/10 for 22 h at 37°C + 72 h at 5 ± 3°C																														
				PCR-BPW 72 h (with PMAxx)			PCR-Lysate 72 h (with PMAxx)			Confirmation																								
				Cp	Tm	Result	Cp	Tm	Result	Direct streaking									Subculture SX2															
										ChromID Salmonella			XLD			ASAP			SALMA			6 h at 41,5 ± 1,0°C			22 h at 41,5 ± 1,0°C									
Typical colonies		Before purif	Final result	Agreement	Typical colonies		Before purif	Final result	Agreement	Typical colonies		Before purif	Final result	Agreement	Typical colonies		Before purif	Final result	Agreement	Typical colonies		Before purif	Final result	Agreement	Typical colonies		Before purif	Final result	Agreement	Confirmation final	Final result 72 h BPW	Final result 72 h Lysate	Agreement 72 h BPW	Agreement 72 h Lysate
2023	3686	Alkalized cocoa powder	+	32.77	65.49	+	26.76	66.15	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+p	+	+	+	PA	PA	19	a
2023	3687	Fat reduced alkalized cocoa powder	+	27.05	65.44	+	23.90	65.91	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	19	a	
2023	3688	Chocolate mass	+	35.05	65.79	+	35.66	65.55	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	19	a	
2023	3689	Cocoa butter (non-deodorised)	+	27.98	66.29	+	25.46	66.16	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	19	a	
2023	3884	Cocoa mass	+	27.00	66.26	+	28.80	65.51	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	19	a	
2023	3885	Cocoa liquor	+	26.97	66.19	+	27.93	65.64	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	19	a	
2023	4193	Cocoa liquor	+	29.95	66.13	+	31.48	66.29	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	19	a	
2023	4292	Cocoa mass	+	26.59	66.97	+	27.64	66.59	+	+M	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	19	a	
2023	4293	Cocoa butter	+	28.47	66.67	+	31.00	66.28	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	19	a	
2023	4944	Cocoa liquor	+	24.67	66.59	+	29.15	66.15	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	19	a	
2023	3691	White chocolate	+	0/0/0	0/0/0	-/-	0/0/0	0/0/0	-/-	+p	+	-	ND	+p	-	ND	+p	+	-	ND	+p	+	+	PA	+p	+	+	+	PA	PA	19	b		
2023	3692	Dark chocolate	+	29.65	66.37	+	26.55	65.98	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	19	b	
2023	3693	Milk chocolate	+	0/0/35,20	0/0/65,45	-/-+	35.70	65.76	+	+m	+	-	ND	+m	+	-	ND	+p	+	-	ND	+m	+	+	PA	+p	+	+	+	PA	PA	19	b	
2023	3920	Dark chocolate (50% cocoa)	+	27.84	66.66	+	28.94	65.25	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	19	b	
2023	3922	Dark chocolate (48% cocoa)	+	27.74	66.51	+	32.63	65.60	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	19	b	
2023	3924	Milk chocolate (30% cocoa)	+	29.49	65.58	+	32.30	65.60	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	19	b	
2023	3926	White chocolate	+	27.00	66.05	+	31.76	65.41	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	19	b	
2023	4296	Dark chocolate (65% cocoa)	+	25.76	66.08	+	29.42	65.96	+	+M	+	+	PA	+p	+	+	PA	+M	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	19	b	
2023	4298	Milk chocolate (34,1% cocoa)	+	27.29	66.70	+	30.53	66.04	+	+M	+	+	PA	+M	+	+	PA	+M	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	19	b	

\* Analyses performed according to the COFRAC accreditation

**CHOCOLATE AND CONFECTIONARIES**  
**Extension No 10, 2023 - Protocol ④ with BACTVIAB PMAxx protocol**

Year of analysis	Sample N°	Product	ISO 6579-1*	Alternative method: GENE-UP <i>Salmonella</i>																								Category	Type						
			Result	Pre-warmed BPW or UHT skimmed milk 1/10 for 22 h at 37°C + 72 h at 5 ± 3°C																															
				PCR-BPW 72 h (with PMAxx)			PCR-Lysate 72 h (with PMAxx)			Confirmation																									
				Cp	Tm	Result	Cp	Tm	Result	Direct streaking												Subculture SX2													
										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		Confirmation final	Final result 72 h BPW	Final result 72 h Lysate	Agreement 72 h BPW	Agreement 72 h Lysate						
Typical colonies	Before purif	Api	Final result	Agreement	Typical colonies	Before purif	Api	Final result	Agreement	Typical colonies	Before purif	Api	Final result	Agreement	Typical colonies	Before purif	Api	Final result	Agreement	Typical colonies	Before purif	Api	Final result	Agreement						Typical colonies	Before purif	Api	Final result	Agreement	
2023	4945	Black chocolate (65% cocoa)	+	24.74	66.27	+	32.90	65.52	+	+m	+	+	PA	+1/2	+	+	PA	+1/2	+	+	PA	+m	+	+	PA	+1/2	+1/2	+	+	+	PA	PA	19	b	
2023	4946	Milk chocolate (41% cocoa)	+	24.87	66.45	+	29.85	66.12	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+p	+	+	+	PA	PA	19	b	
2023	3928	Mars	+	30.13	65.70	+	31.68	65.65	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+p	+	+	+	PA	PA	19	c	
2023	3930	Maltesers	+	33.00	65.80	+	34.49	65.50	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+p	+	+	+	PA	PA	19	c	
2023	4194	Lion	+	31.73	65.86	+	33.51	65.35	+	+m	+	+	PA	+1/2	+	+	PA	+m	+	+	PA	+1/2	+	+	PA	+M	+M	+	+	+	PA	PA	19	c	
2023	4195	Kinder country	+	29.46	66.56	+	32.51	66.10	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+p	+	+	+	PA	PA	19	c	
2023	4196	Smarties	+	31.28	65.97	+	33.14	65.50	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+p	+	+	+	PA	PA	19	c	
2023	4199	Reeses's	+	34.60	65.98	+	34.12	65.24	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+p	+	+	+	PA	PA	19	c	
2023	4299	M&M's peanuts	+	31.47	66.30	+	34.21	65.67	+	+p	+	+	PA	+M	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+p	+	+	+	PA	PA	19	c	
2023	4300	Twix	+	32.68	66.05	+	33.93	65.85	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+p	+	+	+	PA	PA	19	c	
2023	4457	Daim	+	23.83	66.49	+	28.42	66.30	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+p	+	+	+	PA	PA	19	c	
2023	4458	Kitkat	+	26.32	65.92	+	29.47	65.72	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+M	+1/2	+1/2	+	+	+	PA	PA	19	c



**INGREDIENTS**  
Extension No 10, 2023 - Protocol ④ with BACTVIAB PMAxx protocol

Year of analysis	Sample N°	Product	ISO 6579-1*	Alternative method: GENE-UP <i>Salmonella</i>																								Category							
			Result	Pre-warmed BPW 1/10 for 20 h at 37°C +72 h at 5 ± 3°C																															
				PCR-BPW 72 h (with PMAxx)			PCR-Lysate 72 h (with PMAxx)			Confirmation																									
				Cp	Tm	Result	Cp	Tm	Result	Direct streaking									Subculture SX2																
										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	Final result	Agreement	Typical colonies		Before purif	Final result	Agreement	Typical colonies		Before purif	Final result	Agreement	Typical colonies		Before purif	Final result	Agreement	Typical colonies		Before purif	Final result	Agreement	Typical colonies		Before purif	Final result	Agreement	Confirmation final	Final result 72 h BPW	Final result 72 h Lysate	Agreement 72 h BPW	Agreement 72 h Lysate	
Latex	Api	Latex			Api	Latex	Api			Latex	Api	Latex			Api	Latex	Api			Latex	Api	Latex			Api	Latex	Api								Latex
2023	3694	Egg white powder	+	26.33	66.38	+	20.80	65.81	+	+M	+	+	PA	+m	+	+	PA	+p	+	+	PA	+M	+	+	+	PA	+M	+	+	+	PA	PA	20		
2023	3695	Yolk powder	+	28.46	65.92	+	21.10	65.27	+	+p	+	+	PA	+m (H2S-)	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p (H2S-)	+	+	+	PA	PA	20			
2023	3696	Yolk powder	+	28.58	66.30	+	21.53	65.47	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	20			
2023	3697	Egg powder	+	27.59	66.40	+	21.23	65.50	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	20			
2023	3698	Egg powder	+	28.29	65.42	+	21.47	65.25	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	20			
2023	4200	Albumin	+	27.24	66.05	+	27.10	66.21	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	20			
2023	4835	Pasteurized egg yolk	+	29.12	66.46	+	32.73	66.20	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	20			
2023	4836	Pasteurized egg yolk	+	29.98	66.15	+	33.09	65.90	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	20			
2023	4837	Pasteurized liquid whole egg	+	28.17	66.36	+	31.02	66.20	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	20			
2023	4838	Pasteurized liquid whole egg	+	31.14	66.22	+	32.71	66.08	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	20			
2023	4953	Egg yolk powder	+	31.76	66.22	+	31.92	65.37	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	20			
2023	3699	Malto-dextrin	+	26.59	66.34	+	19.85	65.58	+	+m	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	20			
2023	3877	Buttermilk powder	+	28.13	66.05	+	29.42	65.84	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	20			
2023	3878	Lactose	+	28.82	65.72	+	27.18	65.93	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	20			
2023	3879	Whole milk powder	+	0/0/0	0/0/0	-/-	0/0/0	0/0/0	-/-	st	/	-	ND	st	-	ND	st	/	-	ND	st	/	-	ND	st	/	-	ND	st	st	st	st	ND	ND	20
2023	3880	Calcium caseinate	+	28.51	66.13	+	28.74	65.65	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	20			
2023	3881	Whey protein concentrate	-	34.00/34.57/35.03	65.72/65.70/61.46	+/-	35.06/34.23/33.80	65.01/65.18/65.17	+/-	-B	/	-	NA	-A	-	NA	-A	/	-	NA	-A	/	-	NA	-A	/	-	NA	-A	/	-	NA	PPN A	PPN A	20
2023	3882	Skimmed yoghurt powder	+	27.70	66.25	+	29.87	65.72	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	20			
2023	4201	Yoghurt powder	+	25.08	66.56	+	28.06	66.11	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	20			
2023	4312	Lactose	+	27.15	66.51	+	32.06	66.19	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	20			
2023	4313	Whey protein	+	26.99	66.38	+	29.15	66.22	+	+M	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	20			
2023	4314	Malto-dextrine	+	26.20	66.59	+	30.63	66.32	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	20			
2023	4459	Cream powder	+	29.23	66.03	+	35.21	65.77	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	PA	20			

\* Analyses performed according to the COFRAC accreditation

**INGREDIENTS**  
Extension No 10, 2023 - Protocol ④ with BACTVIAB PMAxx protocol

Year of analysis	Sample N°	Product	ISO 6579-1*	Alternative method: GENE-UP <i>Salmonella</i>																								Category										
				Pre-warmed BPW 1/10 for 20 h at 37°C +72 h at 5 ± 3°C																																		
				PCR-BPW 72 h (with PMAxx)			PCR-Lysate 72 h (with PMAxx)			Confirmation																												
				Cp	Tm	Result	Cp	Tm	Result	Direct streaking												Subculture SX2																
										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		Confirmation final	Final result 72 h BPW	Final result 72 h Lysate	Agreement 72 h BPW	Agreement 72 h Lysate							
Typical colonies	Before purif	Final result	Agreement	Typical colonies	Before purif	Final result	Agreement	Typical colonies	Before purif	Final result	Agreement	Typical colonies	Before purif	Final result	Agreement	Typical colonies	Before purif	Final result	Agreement	Typical colonies	Before purif	Final result	Agreement	Typical colonies	Before purif	Final result						Agreement	Typical colonies	Before purif	Final result	Agreement		
2023	3872	Peanut butter	+	31.20	65.46	+	31.18	65.25	+	+m	+	+	PA	+M	+	PA	+ 1/2	+	+	PA	+ 1/2	+	+	PA	+ 1/2	+	+	+	PA	+M	+	+	+	PA	PA	20		
2023	3875	Soy lecithin	+	32.29	65.48	+	32.01	65.19	+	+m	+	+	PA	+ 1/2	+	+	PA	+ 1/2	+	+	PA	+M	+	+	PA	+M	+	+	+	PA	+M	+	+	+	PA	PA	20	
2023	4206	Almond and hazelnut praline	+	33.84	66.25	+	34.97	65.80	+	+p	+	+	PA	+p	+	+	PA	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	+M	+	+	+	PA	PA	20		
2023	4307	Tapioca	-																																	20		
2023	4308	Corn starch	+	26.93	66.41	+	31.62	65.81	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	+p	+	+	+	PA	PA	20	
2023	4309	Rice starch	+	24.76	66.48	+	32.19	66.09	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	+p	+	+	+	PA	PA	20	
2023	4310	Marzipan	-																																	20		
2023	4311	Soy lecithin	+	0/0/0	0/0/0	-/-	0/0/0	0/0/0	-/-	-B	/	-	ND	-B	-	ND	-B	/	-	ND	-B	/	/	ND	-A	-A	-A	+	M	+1/2	+	+	M	+	+	ND	ND	20
2023	4948	Sunflower lecithin	+	30.76	66.39	+	32.33	66.18	+	+p	+	+	PA	+1/2	+	+	PA	+M	+	+	PA	+M	+	+	PA	+M	+	+	+	PA	+M	+	+	+	PA	PA	20	
2023	4954	Dextrose	+	24.54	66.14	+	27.97	65.69	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	+p	+	+	+	PA	PA	20	
2023	4955	Glucose	+	24.45	66.49	+	29.51	66.24	+	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	+p	+	+	+	PA	PA	20	
2023	4956	Tapioca	+	27.87	66.39	+	31.92	66.20	+	+1/2	+	+	PA	+M	+	+	PA	+M	+	+	PA	+M	+	+	PA	+M	+	+	+	PA	+p	+	+	+	PA	PA	20	
2023	4957	Corn starch	+	27.59	65.96	+	31.83	65.79	+	+M	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	PA	+p	+	+	+	PA	+p	+	+	+	PA	PA	20	

Appendix 5 – Relative level of detection study: raw data

Matrix : Macédoine (25 g test portion) - General 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 Salmonella (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
6846	0	/	-	-	-	-	-	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	+	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	+	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

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

Aerobic mesophilic flora : 2,1.10<sup>6</sup> CFU/g

N° sample	Level	Contamination level- (cfu/sample)	Reference method: ISO 6579♦					Number positive samples/Total	Alternative method: GENE-UP Salmonella (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	-	-	-	-	-	-	-		
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	+	/	+		
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	+p	+p	+M	+p	+	24,83	65,92	+	+m	+M	+M	+	/	+	+				
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

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

Aerobic mesophilic flora : 4,4.10<sup>2</sup> CFU/g

N° sample	Level	Contamination level- cfu/sample)	Reference method: ISO 6579♦					Number positive samples/Total	Alternative method : GENE UP Salmonella (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			
4574	0	/	st	st	st	st	-	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	+	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	-	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)	+(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

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

Aerobic mesophilic flora : 3,0.10<sup>8</sup> CFU/g

N° sample	Level	Contamination level- (cfu/sample)	Reference method: ISO 6579*					Number positive samples/Total	Alternative method : GENE UP Salmonella (18 h at 37°C)								Number positive samples/Total
			RVS broth		MKTn broth		Final result		PCR			Direct streaking			Subculture	Final result	
			XLD	ASAP	XLD	ASAP			CP	TM	Result	ChromID Salmonella	XLD	ASAP			
1624	0	/	-	-	-	-	-	0	0	-	-	-	-	-	-	-	0/5
1625			-	-	-	-	-	0	0	-	-	-	-	-	-	-	
1626			-	-	-	-	-	0	0	-	-	-	-	-	-	-	
1627			-	-	-	-	-	0	0	-	-	-	-	-	-	-	
1628			-	-	-	-	-	0	0	-	-	-	-	-	-	-	
1784	Low	1,3	-	-	-	-	-	0	0	-	-	-	-	-	-	-	11/20
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	+1/2	+1/2	+1/2	+1/2	+	31,77	66,2	+	-	-	-	+	+	+			
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

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

Aerobic mesophilic flora : 4,0.10<sup>7</sup> CFU/g

N° sample	Level	Contamination level- (cfu/sample)	Reference method: ISO 6579*					Number positive samples/Total	Alternative method : GENE UP Salmonella (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	
2176	0	/	-	-	-	-	-	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 (Api=Citrobacter youngae)	-	-	0	0	-	-	-	-	-	-	-	10/20	
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	+	26,43	67,37	+	+m	+1/2	+m/+	+	+	+	16/20	
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

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

Aerobic mesophilic flora : <2,0.10<sup>2</sup> CFU/g

N° sample	Level	Contamination level- (cfu/sample)	Reference method: ISO 6579*					Number positive samples/Total	Alternative method : GENE UP Salmonella (18 h at 37°C)								Number positive samples/Total	
			RVS broth		MKTn 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



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

Aerobic mesophilic flora : 3,6.10<sup>3</sup>CFU/g

N° sample	Level	Contamination level- (cfu/sample)	Reference method: ISO 6579*					Number positive samples/Total	Alternative method : GENE UP Salmonella (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			
6062	0	/	st	st	st	st	-	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	+	21,63	66,41	+	+p	+p	+p	+	+	+	10/20
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	-	0	0	-	st	-	-	-	-	-	9/20
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

**Extension No 3**

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

Aerobic mesophilic flora (Lactic): 1,0.10<sup>6</sup> CFU/g

N° sample	Level	Contamination level- (cfu/sample)	Reference method: ISO 6579-1*					Number positive samples/Total	Alternative method : GENE UP Salmonella BPW + novo 20h at 37°C (dilution 1/4)								Number positive samples/Total
			RVS broth		MKTTn broth		Final result		PCR			Direct streaking					
			XLD	ASAP	XLD	ASAP			CP	TM	Result	ChromID Salmonella	XLD	ASAP	Result	Subculture	
7976	0	/	st	st	st	st	-	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	+	23,07	65,98	+	+p	+p	+p	+	+p	+	6/20
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	-	20,23	66,44	+	+p	+p	+p	+	+p	+	16/20
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

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 Salmonella 20 h at 37°C (pre-warmed BPW)								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			
8104	0	/	st	st	st	st	-	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	-	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	+	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

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 Salmonella 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			
8104	0	/	st	st	st	st	-	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	-	0	0	-	st	st	st	-	st	-	7/20
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	+	27,96	66,65	+	+p	+p	+p	+	/	+	20/20
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

**Extension No 4**

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

Aerobic mesophilic flora :5,0.10<sup>2</sup> CFU/g

N° sample	Level	Contamination level- (cfu/sample)	Reference method: ISO 6579-1*					Number positive samples/Total	Alternative method : GENE UP Salmonella 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	0	-	-	-	-	-	-	-	0/5	
9217			-	-	-	-	-	0	0	-	-	-	-	-	-	-		
9218			-	-	-	-	-	0	0	-	-	-	-	-	-	-		
9219			-	-	-	-	-	0	0	-	-	-	-	-	-	-		
9220			-	-	-	-	-	0	0	-	-	-	-	-	-	-		
9450	Low	1,7	+M	+M	+M	+M	+	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	+	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

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 Salmonella 20h at 37°C (dilution 1/6)								Number positive samples/Total
			RVS broth		MKTn broth		Final result		PCR			Direct streaking			Subculture	Final result	
			XLD	ASAP	XLD	ASAP			CP	TM	Result	ChromID Salmonella	XLD	ASAP			
7379	0	/	-	-	-	-	-	0	0	-	-	-	-	-	-	-	0/5
7380			-	-	-	-	-	0	0	-	-	-	-	-	-	-	
7381			-	-	-	-	-	0	0	-	-	-	-	-	-	-	
7382			-	-	-	-	-	0	0	-	-	-	-	-	-	-	
7383			-	-	-	-	-	0	0	-	-	-	-	-	-	-	
9042	Low	0,7	st	st	-	st	-	0	0	-	-	-	-	-	-	-	8/20
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	+			+	+m/+	+m/+	+m/+	+	+	+	16/20
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

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 Salmonella 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 Salmonella	XLD	ASAP			
7379	0	/	-	-	-	-	-	0	0	-	-	-	-	-	-	-	0/5
7380			-	-	-	-	-	0	0	-	-	-	-	-	-	-	
7381			-	-	-	-	-	0	0	-	-	-	-	-	-	-	
7382			-	-	-	-	-	0	0	-	-	-	-	-	-	-	
7383			-	-	-	-	-	0	0	-	-	-	-	-	-	-	
9042	Low	0,7	st	st	-	st	-	0	0	-	-	-	-	-	-	-	8/20
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	+			+	+m	+m	+m/+	+	+	+	16/20
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	+m	+	+	+	
8005			+M	+M	+m	-	+	0/0/0	0/0/0	-/-/-	-	-	-	-	+	-	

\* Analyses performed according to the COFRAC accreditation

Extension n° 5

Matrix : Infant cereals without probiotics (25g test portion) – General 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 Salmonella 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			
5543	0	/	st	st	st	st	-	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	-	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	-	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



Matrix : Infant formula with probiotics (25g test portion) - Specific protocol ⑦

Strain : *Salmonella* Livingstone Ad2705

Lactic flora :  $1,7 \cdot 10^6$  CFU/g

N° sample	Level	Contamination level (CFU/sample)	Reference method: ISO 6579-1*					Number positive samples/Total	Alternative method: GENE UP Salmonella 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

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

Strain : *Salmonella* Mbandaka Ad1810

Lactic flora : 1,7.10<sup>6</sup> CFU/g

N° sample	Level	Contamination level (CFU/sample)	Reference method: ISO 6579-1 ♦					Number positive samples/Total	Alternative method: GENE UP Salmonella 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			
5589	0	/	st	st	-	-	-	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	-	30,88	66,01	+	+p	+p	+p	+	+	+	10/20
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	+	27,28	65,8	+	+p	+p	+p	+	+	+	4/5
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

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 Salmonella 20h at 37°C (dilution 1/10)								Number positive samples/Total	
			RVS broth		MKTn 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

Extension No 8 (2020)

Matrix : Bootsocks - Specific protocol ⑨

Strain : S. Djugu Ad2969

Aerobic mesophilic flora : 1,5.10<sup>6</sup>CFU/g

N° sample	Level	Contamination level- (cfu/sample)	Reference method: ISO 6579-1 ♦						Number positive samples/Total	Alternative method: GENE-UP Salmonella 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	
3953			-/-			-	+dni/-	-			-	md/-	-	-		
3954			-/-			-	+dni/-	-			-	md/-	md/-	-		
3955			-/-			-	+dni/-	-			-	md/-	-	-		
3956			-/-			-	+dni/-	-			-	md/-	-	-		
4215	Low	0,9	+	+p	+p	-	+m	+	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	+	22.63	65.63	+	+m	+M	+		
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

Extension No 9 (2023)- Protocol 10

Matrix: Infant formula with probiotics (375 g test portion) - Specific protocol 10

Strain : *Salmonella* Livingstone Ad2705

Lactic flora: 6,0.10<sup>5</sup> CFU/g

N° sample	Level	Contamination level- (cfu/sample)	Reference method: ISO 6579-1 *					Number positive samples/Total	GENE-UP Salmonella											Number positive samples/Total Without Pmaxx	Number positive samples/Total With Pmaxx		
			RVS		MKTTn		Final result		PCR Gene UP without Pmaxx			PCR Gene UP with Pmaxx			Direct streaking				Subculture			Final result	
			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	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	+	0	0	-	0	0	-	st	st	st	st	st	-	15/20	14/20	14/20	
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	+p				+
2067			+p	+p	+p	+p	+	18.98	64.80	+	23.77	65.58	+	+p	+p	+p	+p	+p	+p				+
2068			+p	+p	+p	+p	+	0	0	-	0	0	-	st	st	st	st	st	st				-
2069			+p	+p	+p	+p	+	0	0	-	0	0	-	st	st	st	st	st	st				-
2070			+p	+p	+p	+p	+	19.70	65.42	+	23.85	65.64	+	+p	+p	+p	+p	+p	+p				+
2071			+p	+p	+p	+p	+	19.73	65.39	+	23.88	65.88	+	+p	+p	+p	+p	+p	+p				+
2072			st	st	st	st	-	19.60	64.73	+	23.69	65.52	+	+p	+p	+p	+p	+p	+p				+
2073			-	st	st	st	-	19.94	65.48	+	23.83	66.15	+	+p	+p	+p	+p	+p	+p				+
2074			+p	+p	+p	+p	+	19.50	64.99	+	23.97	66.19	+	+p	+p	+p	+p	+p	+p				+
2075			+p	+p	+p	+p	+	22.87	65.04	+	27.03	65.86	+	+p	+p	+p	+p	+p	+p				+
2076			+p	+p	+p	+p	+	19.52	65.03	+	23.80	66.15	+	+p	+p	+p	+p	+p	+p				+
2077			+p	+p	+p	+p	+	19.50	65.40	+	23.88	66.09	+	+p	+p	+p	+p	+p	+p				+
2078			st	st	st	st	-	19.55	64.87	+	24.18	66.06	+	+p	+p	+p	+p	+p	+p				+
2079			+p	+p	+p	+p	+	0	0	-	0	0	-	st	st	st	st	st	st				-
2080	+p	+p	+p	+p	+	19.19	65.10	+	24.44	66.04	+	+p	+p	+p	+p	+p	+p	+					
2081	st	st	st	st	-	18.98	65.07	+	24.24	66.10	+	+p	+p	+p	+p	+p	+p	+					
2082	+p	+p	+p	+p	+	19.78	65.67	+	24.12	66.38	+	+p	+p	+p	+p	+p	+p	+					
2083	Hight	1,3	+p	+p	+p	+p	+	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	+p			+	

\* Analyses performed according to the COFRAC accreditation

Extension No 11 (2023)-Protocol 11

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 *				Final result	Number positives /Total	GENE-UP <i>Salmonella</i> Pre-warmed BPW 1/10 + supplement 10 h 37°C Protocol 11								Number positives /Total 10 h	GENE-UP <i>Salmonella</i> Pre-warmed BPW 1/10 + supplement 22 h 37°C Protocol 11								Number positives / Total 22 h			
			RVS		MKTTn				PCR			Confirmation				Final result 10 h		PCR			Confirmation				Final result 22 h				
			XLD	ASAP	XLD	ASAP			CP SLM	TM (°C) SLM	Result	SM2	Direct streaking		SX2 6 h			SX2 24 h	CP SLM	TM (°C) SLM	Result	SM2	Direct streaking				SX2 6 h	SX2 24 h	
													XLD	ASAP									Salma	XLD					ASAP
3506	0	/	st	st	st	st	-	0	0	-	st	st	st	st	/	-	-	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	+	0	0	-	st	st	st	st	-	-	-	0	0	-	st	st	st	st	/	-	-	15/20	
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	+	0	0	-	st	st	st	st	/	-	0	0	-	st	st	st	st	-	-	-			
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

Extension No 11 (2023)-Protocol 12

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	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				
			st	st	st	st			-	-	-	st	st	st	st				
3506	0	/	st	st	st	st	-	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	+	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	+	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

Extension No 10 (2023)

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 Salmonella (SLM2)										Number positive samples/Total Without BACTVIAB PMAxx	Number positive samples/Total With BACTVIAB PMAxx		
			RVS		MKTTn				PCR without BACTVIAB PMAxx			PCR with BACTVIAB PMAxx			Direct streaking						Subculture	Final result
			XLD	ASAP	XLD	ASAP	Final result		CP SLM	TM (°C) SLM	Result	CP SLM	TM (°C) SLM	Result	SM2	XLD	ASAP	Salma				
			st	st	st	st	-		0	0	-	0	0	-	st	st	st	st				
4644	0	/	st	st	st	st	-	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	-	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	+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	+p			+
5312			+p	+p	+p	+p	+	25.45	65.90	+	25.62	65.40	+	+p	+p	+p	+p	+p	+p			+
5313			+p	+p	+p	+p	+	23.91	65.08	+	23.42	65.48	+	+p	+p	+p	+p	+p	+p			+
5314			+p	+p	+p	+p	+	23.89	65.94	+	23.57	65.79	+	+p	+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	+p			+
5317			+p	+p	+p	+p	+	23.43	65.58	+	24.56	65.61	+	+p	+p	+p	+p	+p	+p			+
5318			+p	+p	+p	+p	+	24.06	65.54	+	25.07	65.43	+	+p	+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	+p			+
5321			+p	+p	+p	+p	+	28.15	65.20	+	29.94	64.77	+	+p	+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	+p			+
5326			+p	+p	+p	+p	+	34.00	65.32	+	33.64	65.15	+	+p	+p	+p	+p	+p	+p			+
4669	High	2,8	+p	+p	+p	+p	+	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	+p			+

\* Analyses performed according to the COFRAC accreditation



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

Specific protocol ④

N° sample	Level	Contamination level (CFU/test portion)	Reference method: ISO 6579-1*					Number positive samples/Total	Alternative method: GENE- UP Salmonella (SLM2)										Number positive samples/Total Without BACTVIAB PMAxx	Number positive samples/Total With BACTVIAB PMAxx		
			RVS		MKTTn		Final result		PCR without BACTVIAB PMAxx			PCR with BACTVIAB PMAxx			Direct streaking						Subculture	Final result
			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	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	-	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	+p			+
4432			+p	+p	+p	+p	+	19.78	66.41	+	27.85	66.44	+	+p	+p	+p	+p	+p	+p			+
4433			+p	+p	+p	+p	+	19.01	65.70	+	28.28	66.41	+	+p	+p	+p	+p	+p	+p			+
4434			st	st	st	st	-	0	0	-	0	0	-	st	st	st	st	st	st			-
4435			st	st	st	st	-	0	0	-	0	0	-	st	st	st	st	st	st			-
4436			+p	+p	+p	+p	+	20.74	65.85	+	26.88	66.23	+	+p	+p	+p	+p	+p	+p			+
4437			+p	+p	+p	+p	+	20.72	65.99	+	26.10	66.37	+	+p	+p	+p	+p	+p	+p			+
4438			+p	+p	+p	+p	+	22.08	65.85	+	28.64	66.54	+	+p	+p	+p	+p	+p	+p			+
4439			st	st	st	st	-	0	0	-	0	0	-	st	st	st	st	st	st			-
4440			+p	+p	+p	+p	+	26.45	65.97	+	32.89	66.48	+	+p	+p	+p	+p	+p	+p			+
4441			+p	+p	+p	+p	+	19.32	66.23	+	27.40	66.38	+	+p	+p	+p	+p	+p	+p			+
4442			st	st	st	st	-	0	0	-	0	0	-	st	st	st	st	st	st			-
4443			st	st	st	st	-	0	0	-	0	0	-	st	st	st	st	st	st			-
4444			st	st	st	st	-	0	0	-	0	0	-	st	st	st	st	st	st			-
4445	+p	+p	+p	+p	+	19.50	66.07	+	26.19	66.37	+	+p	+p	+p	+p	+p	+p	+				
4446	+p	+p	+p	+p	+	19.73	66.05	+	26.45	66.37	+	+p	+p	+p	+p	+p	+p	+				
4447	+p	+p	+p	+p	+	19.32	65.90	+	26.63	66.11	+	+p	+p	+p	+p	+p	+p	+				
4448	st	st	st	st	-	0	0	-	0	0	-	st	st	st	st	st	st	-				
4449	+p	+p	+p	+p	+	20.01	65.64	+	28.31	66.58	+	+p	+p	+p	+p	+p	+p	+				
4450	High	2,7	+p	+p	+p	+p	+	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	st			-
4454			+p	+p	+p	+p	+	19.19	66.11	+	28.56	66.57	+	+p	+p	+p	+p	+p	+p			+

\* Analyses performed according to the COFRAC accreditation

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					
						CP	Tm	Result	ChromID Salmonella		XLD		ASAP	
								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	+	+ (pale colonies)	+	+ (H2S-)	+	+ (micro colonies)	+
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)	
						20.66	67.76	+	- (blue colonies)	+ weak	+	+	+ (blue halo)	-
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	-	+ (pale colonies)	+ weak	+ (yellow edge)	-	+ (pale colonies)	
						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	+	
19	<i>Salmonella</i>	Cerro	Ad 689	Dehydrated poultry proteins	19	29.46	67.56	+	+	+ 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	+	
28	<i>Salmonella</i>	Gallinarum biovar pullorum	Ad 300	Poultry environment	43	29.98	59.42	+	+	+	+ (yellow edge)	-	+	
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	+	+	+	+ (yellow colonies)	-	+	
32	<i>Salmonella</i>	Hadar	24871	Chicken meat	15	29.97	67.45	+	+	+	+	+	+	
33	<i>Salmonella</i>	Havana	Ad 930	Poultry environment	12	30.13	67.65	+	+	+	+	+	+	
34	<i>Salmonella</i>	Heidelberg	A00E005	Dusts from dairy industry	21	30.46	67.41	+	+	+	+	+ weak	+	
35	<i>Salmonella</i>	houtenae 50:g,z51	Ad 596	Dairy product	17	30.85	67.65	+	+	+ weak	+	+	+ weak	
36	<i>Salmonella</i>	Hvittingfoss	Ad2325	Raw stuff	31	29.54	67.37	+	+	+ weak	+	+	+	
37	<i>Salmonella</i>	Indiana	Ad 174	White cheese	11	29.64	67.29	+	+	+	+	+	+	
38	<i>Salmonella</i>	indica	Ad 600	Environmental sample	27	30.75	67.53	+	- (blue colonies)	+ weak	+ (yellow colonies)	+ weak	+ (pale colonies)	
39	<i>Salmonella</i>	indica 11:b:e,n,x	Ad2337	Chicken breeding environment	19	0	67.56	+	+ (pale colonies)	+ weak	+ (yellow edge)	+ weak	+ (pale colonies)	
40	<i>Salmonella</i>	Infantis	F401B	Cheese	18	29.45	67.47	+	+	+	+	+	+	
41	<i>Salmonella</i>	Javiana	Ad2326	Turkey meat	36	29.77	67.57	+	+	+ weak	+	+ weak	+	
42	<i>Salmonella</i>	Kedougou	Ad 929	Bovine environmental sample	16	30.53	67.35	+	+	+ weak	+	+	+	
43	<i>Salmonella</i>	Kentucky	CIP 105623	/	21	29.75	67.46	+	+	+	+	+	+	
44	<i>Salmonella</i>	Kottbus	Adria 1	Poultry environmental sample	20	30.08	67.49	+	+	+	+	+	+	

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					
						CP	Tm	Result	ChromID Salmonella		XLD		ASAP	
									Result	Latex	Result	Latex	Result	Latex
45	Salmonella	Landau	Ad 499		26	0	0	-	+ (pale colonies)	+	+	+	+	+
46	Salmonella	Lille	Adria 37	Food product	19	29.92	67.35	+	+	+	+	+	+	+
47	Salmonella	Livingstone	Ad 1107	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	+	+	+	+	+	+	+
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 filets	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	Ad 355	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	Ad 302	Clinical	25	28.07	67.49	+	+	+	+	+	+	+
89	Salmonella	Typhimurium	Ad 1070	Pork meat	30	29.24	67.39	+	+	+	+	+	+	+
90	Salmonella	Typhimurium 1,4 [5], I2:-:-	Ad 1333	Tiramisu	40	28.46	67.68	+	+	+	+	+	+	+
91	Salmonella	Typhimurium 1,4 [5], I2:-:1,2	Ad 1335	Poultry environmental sample	29	29.68	67.62	+	+	+	+	+	+	+
92	Salmonella	Typhimurium 1,4 [5], II2:i:-	Ad 1334	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	+	+	+	+

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					
						CP	Tm	Result	ChromID Salmonella		XLD		ASAP	
									Result	Latex	Result	Latex	Result	Latex
95	<i>Salmonella</i>	Virchow	Adria F276	Curry	34	29.26	67.43	+	+	+	+	+	+	
96	<i>Salmonella</i>	Wandsworth	Ad2335	Fillet of mullet	30	30.01	67.45	+	+	+ weak	+	+ weak	+ weak	
97	<i>Salmonella</i>	Waycross	CIP105634	/	40	29.7	67.26	+	+	+ weak	+	-	+ weak	
98	<i>Salmonella</i>	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	<i>Salmonella</i>	Weltevreden	Ad2336	Treated water	38	29.56	67.59	+	+	+	+	+	+	
100	<i>Salmonella</i>	Worthington	Adria 3506	Pâté	45	29.58	67.4	+	+	+	+	+	+	

24 h

**Additional tests**

N°	Strain			Origin	Inoculation Level CFU/225ml	PCR Result			Confirmations						
						CP	Tm	Result	ChromID Salmonella		XLD		ASAP		
									Result	Latex	Result	Latex	Result	Latex	
98	<i>Salmonella</i>	Wayne	Ad502	Food product	11 (+milk)	0	67.12	+	- (white colonies)	-	- (yellow colonies)	-	+ (pale colonies)	+ weak	<b>8h</b>
						22.93	67.47	+	+ (pale colonies)	+ weak	+ (small colonies)	+ weak	+	+ weak	<b>24h</b>
3	<i>Salmonella</i>	Abortusequi	Ad2321		15 (+milk)	0	0	-	st	/	st	/	st	/	<b>8h</b>
						25.74	74	+	+	+	H2S-	+	pale micro-colonies	+	<b>24h</b>
						0	67.79	+	+(10) pale colonies	+	H2S-	+	st	/	<b>8h</b>
4	<i>Salmonella</i>	Abortusovis	Ad2320	Ovine foetus	15 (+milk)	0	0	-	st	/	st	/	st	/	<b>8h</b>
						25	67.17	+	white colonies	+	H2S-	+	white micro-colonies	+w	<b>24h</b>
						0	67.52	+	st	/	st	/	st	/	<b>8h</b>
5	<i>Salmonella</i>	Adelaïde	Ad2319	Turkey breeding environment	52 (+milk)	0	0	-	st	/	st	/	+(1) pale	+w	<b>8h</b>
						22.56	67.65	+	+ pale pink colonies	+w	+	+	+	+w	<b>24h</b>
						31.75	67.21	+	st	/	st	/	+(1) pale	+w	<b>8h</b>
8	<i>Salmonella</i>	arizonae 51:z4,z23	CIP 5523	Turkey meat	28 (+milk)	0	0	-	st	/	+pales colonies	+w	+small	+w	<b>8h</b>
						22.62	65.9	+	+	+	+	+w	+	+w	<b>24h</b>
						29.78	66.06	+	st	/	+pales colonies	+w	+small	+w	<b>8h</b>
45	<i>Salmonella</i>	Landau	Ad 499		30 (+milk)	32.52	67.36	+	+pale colonies	+w	+	+w	+	+w	<b>8h</b>
						23.82	67.22	+	+	+w	+	+	+	+w	<b>24h</b>

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>	<i>arizonae</i> 51:z4,z23	CIP 5523	Turkey meat	23	24.02	65.72	+	+	+	+	+
9	<i>Salmonella</i>	<i>arizonae</i> 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>	<i>bongori</i> 66 :z35	Ad 599	Environmental sample	37	22.21	67.01	+	white	+	+	+
14	<i>Salmonella</i>	<i>Bovismorbificans</i>	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>	<i>diarizonae</i> 38:lv,z53	Ad 451	Ewe milk cheese	22	22.11	58.31	+	+	+	+	-
24	<i>Salmonella</i>	<i>diarizonae</i> 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>	<i>Gallinarum</i> 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>	<i>houtenae</i> 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>	<i>indica</i>	Ad 600	Environmental sample	22	25.52	66.35	+	pale	+	+	+
39	<i>Salmonella</i>	<i>indica</i> 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	+	+	+	+	+
43	<i>Salmonella</i>	Kentucky	CIP 105623	Unknown	10	21.79	66.86	+	+	+	+	+
44	<i>Salmonella</i>	Kottbus	Adria 1	Poultry environmental sample	47	21.08	66.85	+	pale	+	+	+
45	<i>Salmonella</i>	Landau	Ad 499	Unknown	25	21.18	66.54	+	+	+	+	+
46	<i>Salmonella</i>	Lille	Adria 37	Food product	43	21.79	66.8	+	+	+	+	+

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									
47	<i>Salmonella</i>	Livingstone	Ad 1107	Dusts	28	20.75	66.84	+	+	+	+	+
48	<i>Salmonella</i>	London	Adria 326	Cooked meat sample	31	20.57	66.74	+	+	+	+	+
49	<i>Salmonella</i>	Luciana	CIP 105626	Unknown	11			-	st		st	
					16			-	- blue	-	-	-
					120			-	st		st	
					49 with feces*	130			-	st		st
50	<i>Salmonella</i>	Manhattan	Adria 900	Dusts from dairy industry	26	22.18	67.08	+	+	+	+	+
51	<i>Salmonella</i>	Maracaibo	CIP 54143	Unknown	21	23.2	65.63	+	+	+	+	+
52	<i>Salmonella</i>	Marseille	CIP105627	Unknown	19	30.03	56.04	+	+	+	+	+
53	<i>Salmonella</i>	Mbandaka	Ad 914	Mayonnaise	29	22.53	65.54	+	+	+	+	+
54	<i>Salmonella</i>	Meleagridis	505	Raw milk	15	22.73	65.8	+	+	+	+	+
55	<i>Salmonella</i>	Michigan	Ad2327	Low moisture sausage	22	23.11	65.84	+	+	+	+	+
56	<i>Salmonella</i>	Mikawasima	Ad1811	Raw ewe milk	23	23.46	65.5	+	+	+	+	+
57	<i>Salmonella</i>	Minnesota	Ad2328	Feed	29	23.63	65.72	+	+	+	+	+
58	<i>Salmonella</i>	Missisipi	Ad2329	Parakeet	9 (48h)	22.69	65.64	+	+	+	+	+
59	<i>Salmonella</i>	Montevideo	Ad912	Raw milk	17	22.82	65.43	+	+	+	+	+
60	<i>Salmonella</i>	Muenchen	CIP 106178	Unknown	11	23.18	65.62	+	+	+	+	+
61	<i>Salmonella</i>	Napoli	Ad 928	Clinical	30	22.87	65.47	+	+	+	+	+
62	<i>Salmonella</i>	Newport	Adria 586	Sausage	3 (48h)	22.98	65.37	+	+	+	+	+
63	<i>Salmonella</i>	Norwich	Ad1172	Unknown	15	21.82	65.3	+	+	+	+	+
64	<i>Salmonella</i>	Ohio	Ad1482	Raw cow milk	5 (48h)	22.82	65.24	+	+	+	+	+
65	<i>Salmonella</i>	Orion	27	Unknown	5 (48h)	22.65	65.29	+	pale	+	+	+
66	<i>Salmonella</i>	Orianenburg	Ad1724	Cereals	21	23.48	65.64	+	+	+	+	+
67	<i>Salmonella</i>	Ovakam	Ad1647	Compost	17	22.64	65.53	+	+	+	+	+
68	<i>Salmonella</i>	Panama	Adria 8	Ground beef	12	22.79	65.66	+	+	+	+	+
69	<i>Salmonella</i>	Paratyphi A	ATCC 9150	Unknown	23	22.71	65.58	+	+	+	+	+
70	<i>Salmonella</i>	Paratyphi B	Ad 301	Clinical	15	22.92	65.49	+	+	+	+	+
71	<i>Salmonella</i>	Paratyphi C	ATCC 13428	Unknown	27	22.8	65.6	+	pale	+	+	+
72	<i>Salmonella</i>	Pomona	CIP105630	Unknown	21	22.7	65.51	+	+	+	+	+
73	<i>Salmonella</i>	Poona	Ad2330	Poultry feed	24	22.7	55.52	+	+	+	+	+
74	<i>Salmonella</i>	Putten	Ad2331	Feed for chicken	27	23.6	65.81	+	+	+	+	+
75	<i>Salmonella</i>	Regent	Adria 328	Duck	22	23.48	66.09	+	+	+	+	+
76	<i>Salmonella</i>	Rissen	Adria 39	Food product	6 (48H)	23.26	65.79	+	+	+	+	+
77	<i>Salmonella</i>	Rubislaw	Ad2332	Shark cartilage	23	22.55	66.16	+	+	+	+	+
78	<i>Salmonella</i>	Saintpaul	Adria F31	Pilchard fillets	32	21.92	66.08	+	+	+	+	+
79	<i>Salmonella</i>	<i>salamae</i> 42ib:enzx15	Ad 593	Cereals	12	22.28	65.85	+	pale	+	+	+
80	<i>Salmonella</i>	Schwarzengrund	Ad2333	Egg products environment	33	22.45	66.05	+	+	+	+	+
81	<i>Salmonella</i>	Senftenberg	Ad 355	Seafood cocktail	19	22.12	65.77	+	+	+	+	+
82	<i>Salmonella</i>	Stanley	CIP106163	Unknown	5 (48H)	23.03	65.99	+	+	+	+	+
83	<i>Salmonella</i>	Sternschanze	Ad500	Unknown	13	21.17	65.78	+	+	+	+	+
84	<i>Salmonella</i>	Strasbourg	CIP105632	Unknown	7 (48H)	22.32	65.46	+	- blue	-	+	+
85	<i>Salmonella</i>	Tananarive	CIP54142	Unknown	37	21.88	65.84	+	+	+	+	+
86	<i>Salmonella</i>	Tennessee	A00E006	Dusts from dairy industry	30	21.68	65.56	+	+	+	+	+
87	<i>Salmonella</i>	Thompson	AER301	Poultry	39	21.04	65.55	+	+	+	+	+

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									
88	<i>Salmonella</i>	Typhi	Ad 302	Clinical	11	27.74	65.66	+	+	+	H2S-	+
89	<i>Salmonella</i>	Typhimurium	Ad 1070	Pork meat	19	21.77	65.57	+	+	+	+	+
90	<i>Salmonella</i>	Typhimurium 1,4 [5], l2:-:-	Ad 1333	Tiramisu	58	22.02	65.55	+	+	+	+	+
91	<i>Salmonella</i>	Typhimurium 1,4 [5], l2:-:1,2	Ad 1335	Poultry environmental sample	25	22.3	65.64	+	+	+	+	+
92	<i>Salmonella</i>	Typhimurium 1,4 [5], l12:i:-	Ad 1334	Ready to cook pork	29	21.71	65.85	+	+	+	+	+
93	<i>Salmonella</i>	Urbana	Ad501	Food product	17	25.58	65.67	+	pale	+	+	+
94	<i>Salmonella</i>	Veneziana	Adria 233	Food product	17	21.81	65.71	+	+	+	+	+
95	<i>Salmonella</i>	Virchow	Adria F276	Curry	23	21.54	65.73	+	+	+	+	+
96	<i>Salmonella</i>	Wandsworth	Ad2335	Fillet of mullet	17	21.73	65.66	+	+	+	+	+
97	<i>Salmonella</i>	Waycross	CIP105634	Unknown	45	22.25	66.02	+	+	+	+	+
98	<i>Salmonella</i>	Wayne	Ad502	Food product	13	23.48	65.79	+	pale	+	+	+
99	<i>Salmonella</i>	Wetevreden	Ad2336	Treated water	38	22.26	66.02	+	+	+	+	+
100	<i>Salmonella</i>	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	<i>Salmonella</i>	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 Specific protocol (11)					Confirmation						
											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	<i>Salmonella</i>	Abaetetuba	Ad2318	Unknown	56	16.77	16.87	66.32	66.14	+	+	+	+	+	+	+	+
2	<i>Salmonella</i>	Aberdeen	CIP 105618	Unknown	24	19.48	19.66	66.12	65.90	+	+	+	+	+	+	+	+
3	<i>Salmonella</i>	Abortusequi	Ad2321	Unknown	16	29.09	29.78	66.65	61.79	+	+	+	+ (white)	+	+ (H2S-)	+	+
4	<i>Salmonella</i>	Abortusovis	Ad2320	Ovine foetus	24 (48h)	32.87	32.94	66.08	62.02	+	+ (colorless)	+	No growth	/	+ (H2S-)	+ (white)	+
5	<i>Salmonella</i>	Adelaide	Ad2319	Turkey breeding environment	53	25.92	26.14	66.45	66.24	+	+ (colorless)	+	+	+	+	+	+
6	<i>Salmonella</i>	Agona	A00V038	Feed for pork	25	16.88	16.93	66.20	65.85	+	+	+	+	+	+	+	+
7	<i>Salmonella</i>	Anatum	A00E007	Dusts	48	16.13	16.18	65.95	65.20	+	+	+	+	+	+	+	+
8	<i>Salmonella</i>	<i>arizonae</i> 51:z4,z23	CIP 8230	Turkey meat	57	17.29	17.31	64.93	64.67	+	+	-	+	-	+	+	-
9	<i>Salmonella</i>	<i>arizonae</i> 48:z4,z23:-	Ad1850	Poultry environmental sample	29	17.64	17.78	64.77	64.48	+	+	-	+	-	+	+	-
10	<i>Salmonella</i>	Bardo	Adria 569	Meat for sausage	51	30.97	31.54	65.52	61.39	+	+	+	+	+	+	+	+
11	<i>Salmonella</i>	Bareilly	Ad1687	Chocolate industry	11	17.81	17.88	65.72	65.09	+	+	+	+	+	+	+	+
12	<i>Salmonella</i>	Blockley	Ad923	Poultry environment	32	17.10	17.17	65.54	65.32	+	+	+	+	+	+	+	+
13	<i>Salmonella</i>	bongori 66 :z35	Ad598	Environmental sample	74	17.43	17.66	56.91	56.49	+	+ (colorless)	-	+ (white)	-	+	+	-
14	<i>Salmonella</i>	Bovismorbificans	Adria 6629	Sausage	32	31.66	32.03	65.59	61.39	+	+	+	+	+	+	+	+
15	<i>Salmonella</i>	Braenderup	Adria 111	Pork meat	28	16.18	16.19	65.64	65.22	+	+	+	+	+	+	+	+
16	<i>Salmonella</i>	Brandenburg	Ad351	Seafood cocktail	40	16.07	16.10	66.08	65.81	+	+	+	+	+	+	+	+
17	<i>Salmonella</i>	Bredeney	Adria 396	Ground beef	17	31.47	31.76	65.91	61.80	+	+	+	+	+	+	+	+
18	<i>Salmonella</i>	Caracas	Ad2322	Spice	49	21.76	21.87	56.23	55.70	+	+	+	+	+	+	+	+
19	<i>Salmonella</i>	Cerro	Ad689	Dehydrated poultry proteins	49	20.71	20.90	66.17	65.61	+	+	+	+	+	+	+	+
20	<i>Salmonella</i>	Chester	CIP 103543	Unknown	28	19.98	20.22	66.08	65.21	+	+	+	+	+	+	+	+

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 Specific protocol (11)					Confirmation						
											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
21	<i>Salmonella</i>	Cubana	Ad2323	Dust feed environment	34	17.36	0	56.33	55.89	+	+	+	+	+	+	+	+
22	<i>Salmonella</i>	Derby	Ad1093	Fish fillet	50	22.31	22.46	66.11	65.30	+	+	+	+	+	+	+	+
23	<i>Salmonella</i>	<i>diarizonae</i> 38:lv:z53	Ad451	Ewe milk cheese	75	21.95	21.94	57.71	57.14	+	+	+	+	+	+	+	+
24	<i>Salmonella</i>	<i>diarizonae</i> 61:k:1,57	Ad1300	Raw ewe milk	39	18.32	18.56	66.14	65.73	+	+	+	+	+	+	+	+
25	<i>Salmonella</i>	Dublin	Ad529	Beef meat	53	20.25	20.45	66.18	65.50	+	+	+	+	+	+	+	+
26	<i>Salmonella</i>	Emek	Ad333	Unknown	32	15.76	15.69	66.22	65.42	+	+	+	+	+	+	+	+
27	<i>Salmonella</i>	Enteritidis	Ad477	Hen meat	38	18.50	18.67	65.98	65.06	+	+	+	+	+	+	+	+
28	<i>Salmonella</i>	Gallinarum biovar pullorum	Ad300	Poultry environment	11	29.53	30.42	65.84	61.58	+	+	+	+	+	+	+	+
29	<i>Salmonella</i>	Gaminara	Ad2324	Boar meat	40	18.86	18.97	66.27	65.19	+	+	+	+	+	+	+	+
30	<i>Salmonella</i>	Give	Adria 436	Ground beef	22	18.22	18.52	66.08	64.71	+	+	+	+	+	+	+	+
31	<i>Salmonella</i>	Guinea	Adria 29	Unknown	67	16.18	16.14	66.11	65.12	+	+	+	+	+	+	+	+
32	<i>Salmonella</i>	Hadar	Adria 24871	Chicken meat	47	24.80	25.03	65.62	65.93	+	+	+	+	+	+	+	+
33	<i>Salmonella</i>	Havana	Ad930	Poultry environment	66	16.68	16.85	66.31	65.79	+	+	+	+	+	+	+	+
34	<i>Salmonella</i>	Heidelberg	A00E005	Dusts from dairy industry	56	25.13	25.47	65.90	65.97	+	+	+	+	+	+	+	+
35	<i>Salmonella</i>	<i>houtenae</i> 1,40:z4:z23	Ad2682	Primary production sample (poultry)	68	31.76	32.30	65.83	61.36	+	+	+	+	+	+	+	+
36	<i>Salmonella</i>	Hvittingfoss	Ad2325	Raw stuff	41	16.11	16.06	66.13	64.61	+	+	+	+	+	+	+	+
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	+	+	+	+	+	+	+	+
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	+	+	+	+	+	+	+	+

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 Specific protocol (11)					Confirmation						
											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
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)

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 Specific protocol (11)					Confirmation						
											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
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>	Orienenburg	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)
74	<i>Salmonella</i>	Putten	Ad2331	Feed for chicken	95	20.21	20.30	65.87	65.80	+	+	+	+	+ (weak)	+	+	+ (weak)
75	<i>Salmonella</i>	Regent	Adria 328	Duck	21	18.64	18.72	66.29	65.59	+	+	+	+	+ (weak)	+	+	+
76	<i>Salmonella</i>	Rissen	Adria 39	Food product	49	20.10	20.45	65.97	65.46	+	+	+	+	+	+	+	+
77	<i>Salmonella</i>	Rubislaw	Ad2332	Shark cartilage	51	16.76	16.84	65.56	65.59	+	+	+	+	+	+	+	+
78	<i>Salmonella</i>	Saintpaul	Adria F31	Pilchard fillets	61	16.82	16.82	66.23	65.66	+	+	+	+	+	+	+	+
79	<i>Salmonella</i>	<i>salamae</i> 42ib:enxz15	Ad593	Cereals	47	19.71	19.85	65.60	65.10	+	+	+		+ (weak)	+	+	+
80	<i>Salmonella</i>	Schwarzengrund	Ad2333	Egg products environment	56	16.89	16.95	66.21	65.62	+	+	+	+	+	+	+	+
81	<i>Salmonella</i>	Senftenberg	Ad355	Seafood cocktail	65	17.72	17.80	66.25	65.80	+	+	+	+	+	+	+	+
82	<i>Salmonella</i>	Stanley	Ad1688	Chocolate industry	36	21.49	21.66	65.53	65.15	+	+	+	+	+	+	+	+
83	<i>Salmonella</i>	Stourbridge	Ad2297	Raw cheese milk	42	18.89	19.01	66.35	65.84	+	+	+	+	+	+	+	+
84	<i>Salmonella</i>	Strasbourg	CIP 105632	Unknown	15	18.29	18.46	65.65	65.81	+	+ (blue)	+	No growth	/	+	+(blue/purple)	+
85	<i>Salmonella</i>	Tananarive	CIP 54142	Unknown	41	17.53	17.59	65.36	65.39	+	+	+	+	+	+	+	+

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 Specific protocol (11)					Confirmation						
											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
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], I2: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 <sup>5</sup>	0	0	-
2	<i>Citrobacter Diversus</i>	adria 140	Raw milk	3.6 10 <sup>5</sup>	0	0	-
3	<i>Citrobacter freundii</i>	adria 23	Raw pork sausage	3.8 10 <sup>5</sup>	0	0	-
4	<i>Citrobacter freundii</i>	adria 175	Raw duck meat	3.6 10 <sup>5</sup>	0	0	-
5	<i>Citrobacter koseri</i>	adria 71	Frozen vegetables	3.7 10 <sup>5</sup>	0	0	-
6	<i>Enterobacter agglomerans</i>	adria 11	Cheese	2.4 10 <sup>5</sup>	0	0	-
7	<i>Enterobacter amnigenus</i>	A00C068	Raw poultry meat	2.1 10 <sup>5</sup>	0	0	-
8	<i>Enterobacter cloacae</i>	adria 10	Raw milk	1.6 10 <sup>5</sup>	0	0	-
9	<i>Enterobacter intermedius</i>	adria 60	Bean	1.1 10 <sup>5</sup>	0	0	-
10	<i>Enterobacter kobei</i>	Ad 342	Ham	1.7 10 <sup>5</sup>	0	0	-
11	<i>Enterobacter sakazakii</i>	adria 95	Fermented milk	3.6 10 <sup>5</sup>	0	0	-
12	<i>Erwinia carotovora</i>	CIP 8283	Potatoes	3.4 10 <sup>4</sup>	0	0	-
13	<i>Escherichia coli</i>	adria 19	Grated carrots	2.7 10 <sup>5</sup>	0	0	-
14	<i>Escherichia hermanii</i>	Ad 461	Dessert	2.5 10 <sup>5</sup>	0	0	-
15	<i>Escherichia vulneris</i>	adria 127	Raw milk	4.4 10 <sup>5</sup>	0	0	-
16	<i>Hafnia alvei</i>	adria 167	Raw pork sausage	4.4 10 <sup>5</sup>	0	0	-
17	<i>Klebsiella oxytoca</i>	57	Food product	2.4 10 <sup>5</sup>	0	0	-
18	<i>Klebsiella pneumoniae</i>	47	Raw turkey meat	2.9 10 <sup>5</sup>	0	0	-
19	<i>Kluyvera spp</i>	adria 41	Raw milk	3.1 10 <sup>5</sup>	0	0	-
20	<i>Morganella morganii</i>	CIP A236	/	4.9 10 <sup>5</sup>	0	0	-
21	<i>Pantoea agglomerans</i>	adria 62	Frozen vegetables	7.6 10 <sup>4</sup>	0	0	-
22	<i>Proteus mirabilis</i>	Ad639	Mayonnaise	5.1 10 <sup>5</sup>	0	0	-
23	<i>Proteus vulgaris</i>	adria 43	Sliced ham	7.2 10 <sup>4</sup>	0	0	-
24	<i>Providencia rettgeri</i>	adria 112	White liquid egg	2.3 10 <sup>5</sup>	0	0	-
25	<i>Rhanella aquatilis</i>	adria 69	Molluscs	7.2 10 <sup>4</sup>	0	0	-
26	<i>Serratia liquefaciens</i>	26	Egg product	9.2 10 <sup>4</sup>	0	0	-
27	<i>Serratia proteomaculans</i>	A00C056	Ham	3.8 10 <sup>4</sup>	0	0	-
28	<i>Shigella flexneri</i>	CIP 8248	/	1.6 10 <sup>5</sup>	0	0	-
29	<i>Shigella sonnei</i>	CIP 8249T (ATCC 29930)	/	1.9 10 <sup>5</sup>	0	0	-
30	<i>Yersinia enterocolitica</i>	adria 32	Bacon	1.1 10 <sup>5</sup>	0	0	-

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

\* : Lysat 1:3      \*\* : Enrichment 1:10      \*\*\* : Lysat 1:3 de l'enrichissement 1:10      \*\*\*\* : Lysat 1:5      o =Lysat 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 Multi Dose/ Unit Dose			
Cp	Tm	Result	Cp	Tm	Result	Cp				Tm	Result								
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	
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	

♦ Analyses performed according to the COFRAC accreditation  
ADRIA  
Summary Report (Version 0) - 37°C  
GENE-UP® Salmonella (BIO 12/38 - 06/16)

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 Multi Dose/ Unit Dose		
Cp	Tm	Result	Cp	Tm	Result	Cp				Tm	Result							
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 Multi Dose/ Unit Dose		
Cp	Tm	Result	Cp	Tm	Result	Cp				Tm	Result							
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 porc	-	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
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

\* Analyses performed according to the COFRAC accreditation

**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							
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
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 Montbeliard	+	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	Sausege	-	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
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

♦ Analyses performed according to the COFRAC accreditation

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	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
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

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/ tomatoe/ 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 -)	-	PPND	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 -)	-	PPNA	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 -)	-	PPNA	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 -)	-	PPNA	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

\* Analyses performed according to the COFRAC accreditation  
 ADRIA  
 Summary Report (Version 0) - 37°C  
 GENE-UP® Salmonella (BIO 12/38 - 06/16)

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	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
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*	-/+*	-	-	PPNA	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 -)	-	PPNA	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



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 -)	-	PPNA	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 (chiken)	+	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	

**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	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
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 (chiken/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

♦ Analyses performed according to the COFRAC accreditation  
 ADRIA  
 Summary Report (Version 0) - 37°C  
 GENE-UP® Salmonella (BIO 12/38 - 06/16)

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	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 -)	-	PPNA	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 (ovoproduct industry)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	7	b
2016	7672	Water from pasteurizer (ovoproduct 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
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

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	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

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*/-**/0***	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*/-**/0***	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*/-**/0***	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*/-**/0***	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*/-**/0***	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*/-**/0***	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*/(+/-)**	+	+	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 -)	-	PPNA	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/-*/-**/0***	-	-	NA	0/33,78*/0**	0/66,09*/0**	i/+*/+**	0/0*/0**/0***	0/0*/0**/0***	i/i*/-**/0***	ND	5	a
2016	4698	Salsa spices	-	35,91/34,85/35,54	65,94/65,98/65,38	+/+*/+	- (MSRV -)	-	PPNA	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

♦ Analyses performed according to the COFRAC accreditation

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	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
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 -)	-	PPNA	0	0	-	0	0	-	NA	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	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	



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
2017	4260	Cocoa liquor	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	10	c

\* Analyses performed according to the COFRAC accreditation

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	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

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	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
2017	4256	Cocoa butter	-	36,44/0/0	66,51/0/0	+/-	-	-	PPNA	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 (3,2.10 <sup>6</sup> 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 (6,4.10 <sup>5</sup> CFU/g)	+	28,77	65,54	+	+	+	PA	28.55	65.8	+	28.84	65.75	+	PA	11	c
2017	4499	Infant formula with probiotics (5,2.10 <sup>6</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	11	c
2017	4500	Infant formula with probiotics (2,3.10 <sup>6</sup> 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

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 (2,0.10 <sup>5</sup> CFU/g)	+	21,77	66,31	+	+	+	PA	22.77	66.05	+	21.61	66.23	+	PA	11	c
2017	5550	Infant formula with probiotics (2,0.10 <sup>7</sup> CFU/g)	+	19,66	66,1	+	+	+	PA	20.98	66.22	+	20.05	65.98	+	PA	11	c
2017	5551	Infant formula with probiotics (2,4.10 <sup>5</sup> CFU/g)	+	19,64	66,05	+	+	+	PA	20.31	66.62	+	20.51	64.9	+	PA	11	c
2017	5552	Infant formula with probiotics (3,0.10 <sup>5</sup> CFU/g)	+	19,64	66,16	+	+	+	PA	19.86	66.52	+	19.45	66.05	+	PA	11	c
2017	5553	Infant formula with probiotics (1,4.10 <sup>7</sup> CFU/g)	+	20,02	66,16	+	+	+	PA	21.56	66.21	+	20.29	66.41	+	PA	11	c
2017	5554	Infant formula with probiotics (1,0.10 <sup>7</sup> CFU/g)	+	20,4	65,8	+	+	+	PA	21.11	66.37	+	21.66	66.29	+	PA	11	c
2017	5555	Infant formula with probiotics (6,7.10 <sup>6</sup> CFU/g)	+	20,52	66,13	+	+	+	PA	20.61	65.61	+	23.42	64.53	+	PA	11	c
2017	7875	Infant formula with probiotics (<2.10 <sup>3</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	11	c
2017	7887	Infant formula with probiotics (3,0.10 <sup>5</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	11	c
2017	7888	Infant formula with probiotics (<2,0.10 <sup>3</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	11	c
2017	7889	Infant formula with probiotics (8,0.10 <sup>4</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	11	c
2017	7890	Infant formula with probiotics (<2,0.10 <sup>3</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	35,54/0/0	64,28/0/0	+/-	PD	11	c
2017	7891	Infant formula with probiotics (1,9.10 <sup>5</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	11	c
2017	7892	Infant formula with probiotics (8,6.10 <sup>5</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	11	c
2017	7893	Infant formula with probiotics (4,2.10 <sup>5</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	11	c
2017	7894	Infant formula with probiotics (8,0.10 <sup>6</sup> 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 (chiken)	+	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 (chiken)	-	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
2017	8522	Pellets for cat (beef, poultry, vegetables)	+	0	0	-	-	-	ND	0	0	-	0	0	-	NA	12	b

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	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 (chiken/rice)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	b
2017	9124	Pellets for dog (chiken/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 (chiken)	-	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
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

\* Analyses performed according to the COFRAC accreditation

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	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 (chiken/rice)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	12	b
2017	9124	Pellets for dog (chiken/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

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 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	4679	Infant formula with probiotics (2,7.10 <sup>5</sup> CFU/g)	+	20.79	66.57	+	+	+	PA	19.93	66.46	+	20.98	66.55	+	PA	14	a
2018	4680	Infant formula with probiotics (1,6.10 <sup>5</sup> CFU/g)	+	20.93	66.3	+	+	+	PA	20.7	66.24	+	20.57	66.2	+	PA	14	a
2018	4681	Infant formula with probiotics (1,8.10 <sup>4</sup> CFU/g)	+	20.89	56.76	+	+	+	PA	20.62	56.86	+	20.48	56.31	+	PA	14	a
2018	4682	Infant formula with probiotics (6,7.10 <sup>3</sup> CFU/g)	+	21.56	66.59	+	+	+	PA	20.86	66.38	+	20.8	66.29	+	PA	14	a
2018	4683	Infant formula with probiotics (1,9.10 <sup>4</sup> CFU/g)	+	21.07	66.48	+	+	+	PA	21.14	66.33	+	20.76	66.16	+	PA	14	a
2018	4684	Infant formula with probiotics (4,6.10 <sup>3</sup> CFU/g)	+	20.56	66.52	+	+	+	PA	19.99	66.35	+	19.54	66.1	+	PA	14	a
2018	4685	Infant formula with probiotics (2,1.10 <sup>4</sup> CFU/g)	+	22.64	56.62	+	+	+	PA	22.28	56.6	+	22.46	55.93	+	PA	14	a
2018	4686	Infant formula with probiotics (1,8.10 <sup>4</sup> CFU/g)	+	21.86	56.82	+	+	+	PA	21	56.93	+	20.65	56.08	+	PA	14	a
2018	4687	Infant formula with probiotics (6,8.10 <sup>5</sup> CFU/g)	+	20.28	66.59	+	+	+	PA	20.18	66.4	+	19.95	65.69	+	PA	14	a
2018	4688	Infant formula with probiotics (7,0.10 <sup>5</sup> CFU/g)	+	19.58	66.19	+	+	+	PA	20.73	66.1	+	20.69	65.47	+	PA	14	a
2018	4689	Infant formula with probiotics (3,2.10 <sup>6</sup> CFU/g)	+	20.45	66.37	+	+	+	PA	19.56	66.05	+	19.87	65.95	+	PA	14	a
2018	4690	Infant formula with probiotics (3,0.10 <sup>5</sup> CFU/g)	+	19.98	66.23	+	+	+	PA	19.53	65.95	+	19.93	65.61	+	PA	14	a
2018	4691	Infant formula with probiotics (3,0.10 <sup>4</sup> CFU/g)	+	20.3	66.32	+	+	+	PA	19.89	66.54	+	20.26	66.15	+	PA	14	a
2018	4692	Infant formula with probiotics (1,6.10 <sup>6</sup> CFU/g)	+	20.21	66.28	+	+	+	PA	20.03	66.56	+	19.81	65.9	+	PA	14	a
2018	4693	Infant formula with probiotics (6,0.10 <sup>4</sup> CFU/g)	-	20.08	66.13	+	+	+	PD	19.42	66.17	+	20.39	65.85	+	PA	14	a
2018	4694	Infant formula with probiotics (1,4.10 <sup>4</sup> CFU/g)	+	20.3	66.47	+	+	+	PA	19.9	66.27	+	20.63	66.2	+	PA	14	a
2018	4695	Infant formula with probiotics (2,5.10 <sup>5</sup> CFU/g)	+	19.96	66.44	+	+	+	PA	19.19	66.43	+	19.51	65.8	+	PA	14	a
2018	6123	Infant formula with probiotics (9,2.10 <sup>6</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	a
2018	6124	Infant formula with probiotics (1,1.10 <sup>6</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	a
2018	6125	Infant formula with probiotics (9,7.10 <sup>6</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	a
2018	6126	Infant formula with probiotics (2,7.10 <sup>6</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	a
2018	6127	Infant formula with probiotics (4,5.10 <sup>6</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	a
2018	6128	Infant formula with probiotics (6,1.10 <sup>6</sup> 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 (9,7.10 <sup>6</sup> 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 (8,5.10 <sup>5</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	a
2018	6134	Infant formula with probiotics (6,6.10 <sup>5</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	a
2018	6135	Infant formula with probiotics (8,4.10 <sup>5</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	a
2018	6136	Infant formula with probiotics (1,9.10 <sup>6</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	a
2018	6137	Infant formula with probiotics (1,3.10 <sup>6</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	a
2018	4696	Infant cereals with probiotics (8,8.10 <sup>4</sup> CFU/g)	+	21.58	65.29	+	+	+	PA	24.22	65.71	+	21.97	66.16	+	PA	14	b
2018	4697	Infant cereals with probiotics (2,5.10 <sup>5</sup> CFU/g)	-	22.48	65.57	+	+	+	PD	24.87	65.61	+	21.51	65.78	+	PA	14	b
2018	4698	Infant cereals with probiotics (1,1.10 <sup>5</sup> CFU/g)	+	30.84	65.72	+	+	+	PA	31.08	65.68	+	26.91	65.37	+	PA	14	b
2018	4699	Infant cereals with probiotics (2,1.10 <sup>4</sup> CFU/g)	+	38.42	65.8	+	+	+	PA	28.08	65.66	+	40	65.26	+	PA	14	b
2018	4700	Infant cereals with probiotics (6,7.10 <sup>5</sup> CFU/g)	+	24.24	66.11	+	+	+	PA	25.17	65.61	+	21.63	65.91	+	PA	14	b
2018	4701	Infant cereals with probiotics (5,6.10 <sup>5</sup> CFU/g)	+	22.02	66.14	+	+	+	PA	23.66	65.77	+	20.76	65.99	+	PA	14	b
2018	4702	Infant cereals with probiotics (7,8.10 <sup>5</sup> CFU/g)	+	22.8	65.91	+	+	+	PA	23.51	65.61	+	21.22	65.91	+	PA	14	b
2018	4703	Infant cereals with probiotics (1,3.10 <sup>4</sup> CFU/g)	+	21.74	66.3	+	+	+	PA	24.72	65.97	+	21.28	66.03	+	PA	14	b
2018	4704	Infant cereals with probiotics (3,1.10 <sup>4</sup> CFU/g)	+	24.11	65.86	+	+	+	PA	25.75	66.11	+	34.81	65.13	+	PA	14	b
2018	4705	Infant cereals with probiotics (3,6.10 <sup>4</sup> CFU/g)	+	21.29	65.84	+	+	+	PA	22.58	65.72	+	20.48	65.6	+	PA	14	b
2018	4706	Infant cereals with probiotics (4,0.10 <sup>4</sup> CFU/g)	+	21.78	65.95	+	+	+	PA	22.73	65.89	+	20.47	65.84	+	PA	14	b
2018	4707	Infant cereals with probiotics (8,3.10 <sup>3</sup> CFU/g)	+	22.65	65.82	+	+	+	PA	23.86	65.84	+	20.98	65.49	+	PA	14	b
2018	4708	Infant cereals with probiotics (1,6.10 <sup>4</sup> CFU/g)	-	28.87	65.58	+	+	+	PD	29.33	65.72	+	0	65.4	+	PA	14	b
2018	4709	Infant cereals with probiotics (8,0.10 <sup>3</sup> 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

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 (3,6.10 <sup>4</sup> CFU/g)	+	0	0	-	-	-	ND	0	0	-	0	0	-	NA	14	b
2018	4711	Infant cereals with probiotics (1,8.10 <sup>4</sup> CFU/g)	-	25.99	65.94	+	+	+	PD	27.14	65.98	+	24.6	66	+	PA	14	b
2018	4712	Infant cereals with probiotics (1,4.10 <sup>4</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	b
2018	6138	Infant cereals with probiotics (7,0.10 <sup>5</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	b
2018	6139	Infant cereals with probiotics (2,3.10 <sup>5</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	b
2018	6140	Infant cereals with probiotics (1,6.10 <sup>4</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	b
2018	6141	Infant cereals with probiotics (4,9.10 <sup>4</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	b
2018	6142	Infant cereals with probiotics (2,7.10 <sup>5</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	b
2018	6143	Infant cereals with probiotics (3,8.10 <sup>4</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	b
2018	6144	Infant cereals with probiotics (2,0.10 <sup>4</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	b
2018	6145	Infant cereals with probiotics (3,3.10 <sup>5</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	b
2018	6146	Infant cereals with probiotics (5,0.10 <sup>5</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	0/0*	0/0*	i/-*	NA	14	b
2018	6147	Infant cereals with probiotics (1,2.10 <sup>6</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	b
2018	6148	Infant cereals with probiotics (4,9.10 <sup>4</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	b
2018	6149	Infant cereals with probiotics (2,9.10 <sup>4</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	b
2018	6150	Infant cereals with probiotics (8,3.10 <sup>3</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	14	b
2018	6151	Infant cereals with probiotics (5,6.10 <sup>5</sup> 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)																		
Year of analyse	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							
2018	2640	Skim milk powder	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	a
2018	2641	Skim milk powder	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	a
2018	2642	Skim milk powder	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	a
2018	2643	Half-skim milk powder	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	a
2018	2644	Infant formula without probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	a
2018	2645	Infant formula without probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	a
2018	2646	Infant formula without probiotics	-	0	0	-	-	-	NA	0/0	0/0	i/-	0/0*0****	0/0*0****	i/i*/-****	NA	15	a
2018	2647	Infant cereals without probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	a
2018	2648	Infant cereals without probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	a
2018	2649	Infant cereals without probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	a
2018	3751	Infant cereals without probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	a
2018	3752	Infant cereals without probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	a
2018	3753	Infant cereals without probiotics	-	0	0	-	-	-	NA	0	0	-	0/0*	0/0*	i/-*	NA	15	a
2018	3797	Infant formula without probiotics	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	a
2018	4878	Skim milk powder	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	a
2018	4879	Skim milk powder	+	21,26	65,44	+	+	+	PA	19.4	65.86	+	24.53	64.83	+	PA	15	a
2018	4880	Skim milk powder	+	26,75	65,96	+	+	+	PA	25.09	66.18	+	32.87	64.28	+	PA	15	a
2018	4881	Half-skim milk powder	+	20,6	66,01	+	+	+	PA	20.29	66.23	+	22.62	65.32	+	PA	15	a
2018	4882	Whole milk powder	+	19,71	66,17	+	+	+	PA	20.23	66.35	+	22.21	65.63	+	PA	15	a
2018	4883	Skim milk powder	+	21,46	65,82	+	+	+	PA	21.41	66.3	+	24.13	65.37	+	PA	15	a
2018	4884	Infant formula without probiotics	+	19,95	65,93	+	+	+	PA	18.99	66.22	+	20.16	65.7	+	PA	15	a
2018	4885	Infant formula without probiotics	+	25,64	66,58	+	+	+	PA	24.05	66.37	+	23.8	66.54	+	PA	15	a
2018	4886	Infant formula without probiotics	+	22,44	65,93	+	+	+	PA	22.44	66.17	+	22.12	65.99	+	PA	15	a
2018	4887	Infant formula without probiotics	-	20,26	65,56	+	+	+	PD	19.77	65.94	+	20.51	65.78	+	PA	15	a
2018	4888	Infant formula without probiotics	+	29,05	65,41	+	+	+	PA	29.21	66.02	+	29.67	65.41	+	PA	15	a
2018	4889	Infant formula without probiotics	+	21,75	65,68	+	+	+	PA	21.42	65.94	+	21.99	65.47	+	PA	15	a
2018	4890	Infant cereals without probiotics	+	23,64	65,54	+	+	+	PA	22.86	65.97	+	23.6	65.86	+	PA	15	a
2018	4891	Infant cereals without probiotics	+	26,45	65,66	+	+	+	PA	23.12	66.21	+	23.97	65.67	+	PA	15	a
2018	4892	Infant cereals without probiotics	+	20,15	65,51	+	+	+	PA	19.56	66.31	+	20.4	65.95	+	PA	15	a
2018	4893	Infant cereals without probiotics	+	20,83	66,18	+	+	+	PA	20.59	66.27	+	20.15	65.68	+	PA	15	a
2018	4894	Infant cereals without probiotics	+	20,25	65,92	+	+	+	PA	22.93	66.62	+	18.91	65.14	+	PA	15	a
2018	4895	Infant cereals without probiotics	+	21,42	65,95	+	+	+	PA	22.13	66.16	+	18.96	65.04	+	PA	15	a
2018	2864	Infant cereals with probiotics (2,9.10 <sup>5</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	b
2018	2865	Infant cereals with probiotics (4,8.10 <sup>4</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	b
2018	2866	Infant cereals with probiotics (1,2.10 <sup>7</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	b
2018	2867	Infant formula with probiotics (1,6.10 <sup>6</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	b
2018	2868	Infant formula with probiotics (1,5.10 <sup>6</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	b
2018	3754	Infant cereals with probiotics (2,5.10 <sup>5</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	b
2018	3755	Infant cereals with probiotics (1,4.10 <sup>6</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	b
2018	3756	Infant cereals with probiotics (2,2.10 <sup>5</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	b
2018	3757	Infant cereals with probiotics (4,8.10 <sup>4</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	b
2018	3758	Infant cereals with probiotics (2,9.10 <sup>5</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	b
2018	3798	Infant formula with probiotics (1,6.10 <sup>6</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	b
2018	3799	Infant formula with probiotics (7,2.10 <sup>4</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	0/0*	0/0*	i/-*	NA	15	b
2018	3800	Infant formula with probiotics (6,0.10 <sup>4</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	b

\* Analyses performed according to the COFRAC accreditation

MILK POWDERS, INFANT FORMULA AND INFANT CEREALS WITH OR WITHOUT PROBIOTICS INCLUDING INGREDIENTS (SPECIFIC PROTOCOL 8 or 9) (375 g sample size)																		
Year of analyse	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							
2018	3801	Infant formula with probiotics (1,5.10 <sup>6</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	b
2018	3802	Infant formula with probiotics (4,7.10 <sup>5</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	b
2018	4896	Infant cereals with probiotics (8,0.10 <sup>3</sup> CFU/g)	+	20.77	66.28	+	+	+	PA	19.07	66.23	+	20.6	66.16	+	PA	15	b
2018	4897	Infant cereals with probiotics (1,2.10 <sup>4</sup> CFU/g)	+	22.9	65.94	+	+	+	PA	23.43	66.01	+	22.22	65.81	+	PA	15	b
2018	4898	Infant cereals with probiotics (1,3.10 <sup>4</sup> CFU/g)	+	20.93	66.27	+	+	+	PA	21.67	66.28	+	20.05	65.91	+	PA	15	b
2018	4899	Infant cereals with probiotics (8,4.10 <sup>3</sup> CFU/g)	-	21.12	66.21	+	+	+	PD	20.08	66.03	+	20.07	65.95	+	PA	15	b
2018	4900	Infant cereals with probiotics (7,9.10 <sup>3</sup> CFU/g)	+	21.62	66.16	+	+	+	PA	21.3	65.95	+	20.64	65.89	+	PA	15	b
2018	4901	Infant cereals with probiotics (1,2.10 <sup>4</sup> CFU/g)	+	0	0	-	-	-	ND	0	0	-	0	0	-	NA	15	b
2018	4902	Infant cereals with probiotics (9,1.10 <sup>3</sup> CFU/g)	+	20.91	65.99	+	+	+	PA	21.24	65.86	+	20.06	66.04	+	PA	15	b
2018	4903	Infant cereals with probiotics (5,8.10 <sup>3</sup> CFU/g)	+	21.32	66.29	+	+	+	PA	21.06	65.98	+	20.76	66.27	+	PA	15	b
2018	4904	Infant formula with probiotics (4,5.10 <sup>5</sup> CFU/g)	+	20.27	66.24	+	+	+	PA	20.42	66.31	+	20.13	65.85	+	PA	15	b
2018	4905	Infant formula with probiotics (3,2.10 <sup>5</sup> CFU/g)	-	20.47	66	+	+	+	PD	20.27	66.16	+	19.93	66.04	+	PA	15	b
2018	4906	Infant formula with probiotics (3,0.10 <sup>5</sup> CFU/g)	+	20.76	66.02	+	+	+	PA	20.76	66.19	+	20.6	66.22	+	PA	15	b
2018	4907	Infant formula with probiotics (3,7.10 <sup>4</sup> CFU/g)	+	22.57	66	+	+	+	PA	21.61	65.9	+	21.7	66.04	+	PA	15	b
2018	4908	Infant formula with probiotics (4,2.10 <sup>4</sup> CFU/g)	+	30.09	65.72	+	+	+	PA	29.8	65.86	+	30.06	65.48	+	PA	15	b
2018	4909	Infant formula with probiotics (5,1.10 <sup>4</sup> CFU/g)	+	21.66	66.13	+	+	+	PA	20.56	66.62	+	20.54	65.14	+	PA	15	b
2018	4910	Infant formula with probiotics (3,1.10 <sup>5</sup> CFU/g)	-	20.87	65.94	+	+	+	PD	20.93	66.08	+	20.41	65.94	+	PA	15	b
2018	4911	Infant formula with probiotics (7,1.10 <sup>6</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	b
2018	2869	Infant formula with probiotics (9,6.10 <sup>6</sup> CFU/g)	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
2018	2870	Starch	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
2018	2871	Whey	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
2018	2872	Caseinates	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
2018	2873	Lactose	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
2018	3739	Caseinate	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
2018	3631	Starch	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
2018	3632	Starch	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
2018	3633	Lactose	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
2018	3634	Starch	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
2018	3635	Whey	-	0	0	-	-	-	NA	0	0	-	35,08/0/37,37	65,49/65,24/64,7	+/+	PD	15	c
2018	3636	Starch	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
2018	3637	Maltodextrin	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
2018	3638	Maltodextrin	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
2018	3639	Maltodextrin	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
2018	3640	Maltodextrin	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
2018	3641	Starch	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
2018	3642	Starch	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
2018	3643	Starch	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
2018	3644	Lactose	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
2018	3645	Caseinate	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
2018	3803	Whey	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
2018	3804	Whey	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
2018	3805	Whey	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
2018	3806	Whey	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
2018	3807	Lactose	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
2018	3808	Lactose	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
2018	3809	Lactose	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
2018	3810	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)																			
Year of analyse	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								
2018	3811	Starch	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c	
2018	3812	Starch	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c	
2018	3813	Maltodextrin	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c	
2018	3814	Maltodextrin	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c	
2018	3815	Maltodextrin	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c	
2018	3816	Maltodextrin	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c	
2018	4986	Maltodextrin	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c	
2018	4987	Whey	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c	
2018	4988	Caseine	+	26,15	66,03	+	+	+	PA	26.07	65.94	+	25.59	65.64	+	PA	15	c	
2018	4989	Lactose	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c	
2018	4990	Starch	+	21,06	66,2	+	+	+	PA	20.69	66	+	20.63	66.17	+	PA	15	c	
2018	4991	Caseinate	+	23,65	65,87	+	+	+	PA	23.99	65.83	+	24	65.29	+	PA	15	c	
2018	4992	Maltodextrin	+	31,91	65,99	+	+	+	PA	32.26	65.92	+	32.28	65.68	+	PA	15	c	
2018	4993	Starch	+	25,69	66,35	+	+	+	PA	25.88	66.24	+	25.27	66.57	+	PA	15	c	
2018	4994	Lactose	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c	
2018	4995	Whey	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c	
2018	4996	Caseine	-	0	0	-	-	-	NA	30.64/0/0	66.56/0/0	+/-	0	0	-	ND	15	c	
2018	4997	Maltodextrin	+	20,11	66,09	+	+	+	PA	18.96	65.64	+	19.74	66.02	+	PA	15	c	
2018	4998	Lactose	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c	
2018	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	
2018	5000	Starch	+	29,56	65,93	+	+	+	PA	30.79	66.49	+	30.58	65.97	+	PA	15	c	
2018	5001	Lactose	+	24,55	66,23	+	+	+	PA	24.26	66.29	+	25.5	66.44	+	PA	15	c	
2018	5002	Maltodextrin	+	20,64	66,41	+	+	+	PA	21.87	66.72	+	21.7	66.72	+	PA	15	c	
2018	5003	Lactose	+	25,73	66,13	+	+	+	PA	26.45	66.4	+	26.46	66.2	+	PA	15	c	
2018	5004	Caseine	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c	
2018	5005	Starch	+	26,26	66,39	+	+	+	PA	26.44	66.66	+	27.18	66.78	+	PA	15	c	
2018	5006	Starch	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c	
2018	5007	Maltodextrin	+	20,69	66,4	+	+	+	PA	19.32	66.24	+	20.9	66.58	+	PA	15	c	
2018	5008	Lactose	+	25,12	65,61	+	+	+	PA	25.82	66.16	+	26.18	66.22	+	PA	15	c	
2018	5009	Caseinate	+	23,12	66,21	+	+	+	PA	23.2	66.2	+	24.03	65.56	+	PA	15	c	
2018	5010	Whey	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c	
2018	5011	Starch	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c	
2018	5012	Starch	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c	
2018	5013	Whey	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c	
2018	5014	Maltodextrin	+	22,87	66	+	+	+	PA	22.65	65.92	+	22.43	65.97	+	PA	15	c	
2018	5015	Caseine	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c	
2018	5016	Lactose	+	24,03	65,89	+	+	+	PA	23.47	65.79	+	22.98	65.83	+	PA	15	c	
2018	5017	Whey	+	24,48	66,06	+	+	+	PA	24.13	66	+	24.65	65.88	+	PA	15	c	
2018	5948	Starch	+	28,22	66,33	+	+	+	PA	28.78	66.52	+	28.29	66.36	+	PA	15	c	
2018	5949	Starch	+	24,16	66,11	+	+	+	PA	23.66	66.14	+	24.58	66.2	+	PA	15	c	
2018	5950	Starch	+	26,92	56,55	+	+	+	PA	27.11	57	+	26.78	56.26	+	PA	15	c	
2018	5951	Starch	+	26,05	66,27	+	+	+	PA	25.69	66.37	+	25.9	66.17	+	PA	15	c	
2018	5952	Starch	+	23,82	66,2	+	+	+	PA	23.93	66.19	+	23.74	65.88	+	PA	15	c	
2018	5953	Starch	+	26,72	66,23	+	+	+	PA	26.81	66.22	+	26.8	65.53	+	PA	15	c	
2018	5954	Caseinate	+	23,77	56,05	+	+	+	PA	23.03	56.26	+	24.32	55.13	+	PA	15	c	
2018	5955	Caseinate	+	24,21	66,21	+	+	+	PA	23.65	66.55	+	24.82	65.59	+	PA	15	c	
2018	5956	Maltodextrin	+	26,91	66,12	+	+	+	PA	28	66.63	+	26.24	66.23	+	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)																		
Year of analyse	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							
2018	5957	Maltodextrin	+	24.69	65.9	+	+	+	PA	25.26	66.36	+	23.68	66.01	+	PA	15	c
2018	5958	Lactose	+	25.71	56.4	+	+	+	PA	25.59	56.96	+	25.44	56.19	+	PA	15	c
2018	5959	Lactose	+	23.22	65.91	+	+	+	PA	23.15	66.25	+	23.4	65.99	+	PA	15	c
2018	5960	Lactose	+	22.86	63.86	+	+	+	PA	24.3	66.22	+	24.02	65.83	+	PA	15	c
2018	5961	Lactose	+	23.43	65.87	+	+	+	PA	23.64	66.28	+	23.03	65.63	+	PA	15	c
2018	5962	Whey	+	32.75	55.77	+	+	+	PA	33.12	56.41	+	33.76	55.69	+	PA	15	c
2018	5963	Whey	-	0	0	-	-	-	NA	0	0	-	0	0	-	NA	15	c
2018	5964	Whey	+	29.24	66.15	+	+	+	PA	27.61	66.38	+	30.51	65.85	+	PA	15	c
2018	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 : 3,0.10<sup>8</sup> 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	0	-	-	-	0	0	-	0	0	-	-	-	-	-	-	-	
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	-	-	-	-	-	0	0	-	-	-	0	0	-	0	0	-	-	-	-	-	-		
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	+1/2	+1/2	+1/2	+1/2	+	31,77	66,2	+	+	+	31,65	66,65	+	32,73	66,19	+	+	+	+	+	+	+			
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  
ADRIA  
Summary Report (Version 0) - 37°C  
GENE-UP® *Salmonella* (BIO 12/38 - 06/16)

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 <sup>®</sup> <i>Salmonella</i>	
									CP	Tm	Result	CP	Tm	Result	Result	Latex	Result	Latex	Result	Latex	Result	Latex
12	<i>Salmonella</i>	Blockley	Ad 923	Poultry environment	21	21,89	67,31	+	23.47	66.64	+	22.82	66	+	+	+	+	+	+	+	+	
13	<i>Salmonella</i>	<i>bongori</i> 66 :z35	Ad 599	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	Ad 451	Ewe milk cheese	42	21,86	59,19	+	23.93	58.04	+	22.92	57.21	+	+	-	+	-	+	-	+	-
28	<i>Salmonella</i>	Gallinarum biovar pullorum	Ad 300	Poultry environment	39	21,94	59,34	+	22.74	57.97	+	24.27	57.91	+	+	-	+	-	+	-	+	-
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	+	+	+	+	+	+	+	+	+