

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

**Summary report**

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

**BioChek *Salmonella* species DNA Test Kit**

for the detection of *Salmonella* spp. in ready-to-eat and ready-to-reheat foods, meat products, ingredients and specific foods, feed products, production environmental samples and primary production samples

**Qualitative method**

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This report consists of 119 pages, including 8 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 **BioChek (UK) Ltd.**

The technical protocol and the result interpretation were carried out 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 (Revision 6).</li> </ul>
<b>Reference method<sup>♦</sup></b>	<ul style="list-style-type: none"> <li>▪ ISO 6579-1 (February 2017) - 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</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 MSRV and SC.</li> </ul>
<b>Alternative method</b>	<b>BioChek Salmonella species DNA Test Kit</b>
<b>Scope</b>	<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Ready-to-eat and ready-to-reheat foods</li> <li><input checked="" type="checkbox"/> Meat products</li> <li><input checked="" type="checkbox"/> Ingredients and specific foods</li> <li><input checked="" type="checkbox"/> Feed products,</li> <li><input checked="" type="checkbox"/> Production environmental samples</li> <li><input checked="" type="checkbox"/> Primary production samples</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 AIM OF THE STUDY

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The BioChek *Salmonella* Species DNA Test Kit for the detection of *Salmonella* spp. in RTE and RTRH foods, meat products, ingredients and specific foods, feed products, production environmental samples and primary production samples was validated in July 2019 according to the EN ISO 16140-2:2016.

The method was renewed in February 2023.

## 2 METHOD PROTOCOLS

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### 2.1 Alternative method

The flow diagram of the alternative method is provided in **Appendix 1**.

#### 2.1.1 Principle

The *Salmonella* Species DNA Test Kit detects the presence of DNA from *Salmonella* spp. (Salm) in food, feed, production environmental samples from food production and primary production samples (PPS). Primers and probes are specific for *Salmonella* spp.; the probe is labelled with a specific fluorophore which is detected in a designated channel on the qPCR thermocycler. After extraction of the Nucleic Acids, samples are added to PCR plates along with the dedicated Reaction Mix. The prepared wells are placed in the qPCR cyclor for amplification and detection.

#### 2.1.2 Protocol

The following steps were applied:

- Enrichment in Buffered Peptone Water (BPW) for 16 - 20 h:
  - o at 34-38 °C for ready to eat and ready to reheat foods, meat products, ingredients and specific foods, and production environmental samples
  - o at 34 - 38°C for primary production samplesFor PPS, subculture 1 ml into 10 ml MKTTn for 24 h ± 3 h at 41.5°C ± 1°C.
- DNA extraction on 100 µl enriched BPW for food, feed and production environmental samples, on 100 µl MKTTn for primary production samples

- PCR on 5 µl DNA extract using four thermocyclers:
  - \* Bio-Rad CFX96 (software Bio-Rad CFX Manager (version n° 4.1))
  - \* Applied Biosystems 7500 (software SDS 2.06)
  - \* Agilent MX3005P (software Mxpro 4.10)
  - \* Roche LightCycler 480II (software LightCycler 480 v1.5.).

For the four thermocyclers, the threshold setting is manually performed. To set the threshold, the user displays all the wells on the plate with the FAM channel, then considers the cycle at which the first curve starts to form (a) and the cycle at which this curve goes up in straight line (b). The threshold should be set halfway between the fluorescence levels of cycles determined in (a) and (b). This process is then repeated for the HEX channel. After being set up, the thresholds for both channels are kept for all future PCR runs.

The interpretation is made as described below:

	<i>Salmonella</i> spp detection (FAM)	Internal control detection (HEX)	Interpretation
Negative control	Cq = N/A*	Cq ≤ 38.0	Valid
Positive control	22.0 ≤ Cq < 33.0		Valid
Samples	Cq < 40		Positive
	Cq = N/A	Cq ≤ 38.0	Negative
	Cq = N/A	Cq = N/A or Cq > 38.0	Invalid

\* N/A: not applicable

- Confirmation using the protocol of the ISO 6579-1 method for food, feed and production environmental samples, and by streaking MKTTn broth onto XLD and a second selective agar plate for primary production samples.

### 2.1.3 Restrictions

There is no restriction.

## 2.2 Reference method♦

The reference methods (See **Appendix 2**) were the following:

- 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.

## 2.3 Study design

The study was a **paired study design** as the reference and the alternative methods have the same enrichment procedure.

## 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/>.*

The alternative method has been validated on four thermocyclers:

- **Bio-Rad CFX96;**
- **Applied Biosystems 7500;**
- **Agilent MX3005P;**
- **Roche LightCycler 480II.**

Test performance was evaluated on all four thermocyclers. For each sample, the DNA extract was split in four parts: one was used in ADRIA to run the test on the Bio-Rad

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CFX96; the others were sent (blind coded, with a different number for each serial of DNA extracts) to BioChek which ran the tests on the other thermocyclers.

A summary of all the PCR results obtained for the different parts of the study for the four thermocyclers is given in **Appendix 3**.

### 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

320 samples were tested for food, feed and production environmental samples, 92 for primary production samples providing, for all categories combined, 188 positive and 224 negative results whatever the PCR instrument used.

The distribution per tested category and type is given in Table 1.

**Table 1 – Distribution per tested category and type**

Category		Type	Positive samples	Negative samples	Total
1	RTE and RTRH foods	a Ready-to-eat	14	9	23
		b Ready-to-reheat	10	10	20
		c Smoked and marinated products	9	11	20
		Total	33	30	63
2	Meat Products	a Raw products (frozen or fresh)	9	12	21
		b Raw poultry, frozen or not, seasoned or not	9	12	21
		c Delicatessen	12	8	20
		Total	30	32	62
3	Ingredients and specific foods	a Raw ingredients	10	17	27
		b Infant formula and cereals with probiotics	9	11	20
		c Pasteurised eggs and eggs products	11	9	20
		Total	30	37	67
4	Feed products	a Low moisture products	15	19	34
		b High moisture products	16	14	30
		Total	31	33	64
5	Production environmental samples	a Dusts and residues	13	9	22
		b Cleaning and Process waters	11	10	21
		c Surface samples	10	11	21
		Total	34	30	64
Food + feed + production environmental samples			<b>158</b>	<b>162</b>	<b>320</b>
6	Primary production samples	a Animal faeces	17	28	45
		b Environmental samples and non-faeces	13	34	47
		Total	30	62	92
<b>All categories</b>			<b>188</b>	<b>224</b>	<b>412</b>



### 3.1.2 Artificial contamination of samples

Artificial contaminations were done by seeding or spiking protocol. The artificial contaminations are presented in **Appendix 4**.

239 samples were artificially contaminated. 163 gave a positive result.

The repartition of the positive samples per inoculation protocol and inoculation level is given in Table 2.

**Table 2 - Repartition of the positive samples per inoculation protocol and inoculation level**

		Naturally contaminated	Artificially contaminated						Total
			Seeding protocol			Spiking protocol			
			≤3	3<x≤10	>10	≤5	5< x<10	>10	
All categories (except 6)	Number of positive samples	22	83	17	3	23	10	0	158
	%	13,9	52,5	10,8	1,9	14,6	6,3	0,0	100,0
Category 6 (PPS)	Number of positive samples	3	7	20	0	0	0	0	30
	%	10,0	23,3	66,7	0,0	0,0	0,0	0,0	100,0
All categories	Number of positive samples	25	90	37	3	23	10	0	188
	%	13,3	47,9	19,7	1,6	12,2	5,3	0,0	100,0

**13.9 % of food, feed and production environmental samples and 10.0 % of the primary production samples were naturally contaminated.**  
**Taking into account all the categories, 13.3 % of the samples were naturally contaminated.**

### 3.1.3 Protocols applied during the validation study

#### > Incubation time

The minimum incubation time was applied:

- Enrichment in BPW: 16 h at 34-38°C
- Selective enrichment: RVS for 21h at 41.5°C ± 1°C; MKTTN: 21 h at 34-38°C
- Selective Agar plates: 21 h at 34-38°C for XLD and following the recommendation of the manufacturer for the chromogenic media.

### > **Confirmations**

The protocol of the ISO 6579-1 method was applied for PCR positive samples. In order to fulfil the ISO 16140-2 requirements, the PCR-negative samples were also confirmed using the protocol of the ISO 6579-1 reference method.

For RTE, RTRH foods, meat products, ingredients and specific foods, feed and production environment samples:

- Subculture in RVS (0.1 ml + 10 ml) for 24 h ± 3 h at 41.5°C ± 1°C and in MKTTn (1 ml + 10 ml) for 24 h ± 3 h at 34-38°C
- Streaking onto XLD and ASAP plates incubated for 24 h ± 3 h at 34-38°C for XLD and following the recommendation of the manufacturer for the chromogenic media.

For primary production samples:

- Subculture on MSR/V (0.1 ml) for 2 x 24 h ± 3 h at 41.5 °C ± 1°C
- Subculture in MKTTn (1 ml + 10 ml) for 24 h ± 3 h at 41.5°C ± 1°C
- Streaking onto XLD and a second selective agar plate incubated for 24 h ± 3 h at 34-38 °C for XLD and following the recommendation of the manufacturer for the chromogenic media
- For all categories, the typical colonies are confirmed using the tests described in the ISO 6579-1.

#### **3.1.4 Test results**

Raw data per category are given in **Appendix 5**. The results are given in:

- Table 3 for Bio-Rad CFX96
- Table 4 for Applied Biosystems 7500
- Table 5 for Agilent MX3005P
- Table 6 for Roche LightCycler 480II.

**Table 3 – Interpretation of sample results between the reference and alternative method (based on the confirmed alternative method results)**

**Bio-Rad CFX96**

Category		PA	NA*	PD	ND**	PPND	PPNA	Total
1	RTE and RTRH foods	32	29	0	1	0	1	63
2	Meat Products	28	32	1	1	0	0	62
3	Ingredients and specific foods	28	34	0	2	0	3	67
4	Feed products	29	32	0	2	0	1	64
5	Production environmental samples	34	30	0	0	0	0	64
6	Primary production samples	27	62	1	2	0	0	92
<b>All categories</b>		<b>178</b>	<b>219</b>	<b>2</b>	<b>8</b>	<b>0</b>	<b>5</b>	<b>412</b>

\* PPNA not included

\*\* PPND not included

**Table 4 – Interpretation of sample results between the reference and alternative method (based on the confirmed alternative method results)**

**Applied Biosystems 7500**

Category		PA	NA*	PD	ND**	PPND	PPNA	Total
1	RTE and RTRH foods	33	29	0	0	0	1	63
2	Meat Products	28	32	1	1	0	0	62
3	Ingredients and specific foods	28	36	0	2	0	1	67
4	Feed products	30	30	0	1	0	3	64
5	Production environmental samples	33	30	0	1	0	0	64
6	Primary production samples	27	51	1	2	0	11	92
<b>All categories</b>		<b>179</b>	<b>208</b>	<b>2</b>	<b>7</b>	<b>0</b>	<b>16</b>	<b>412</b>

**Table 5 – Interpretation of sample results between the reference and alternative method (based on the confirmed alternative method results)**

**Aqilent MX3005P**

Category		PA	NA*	PD	ND**	PPND	PPNA	Total
1	RTE and RTRH foods	32	30	0	1	0	0	63
2	Meat Products	28	29	1	1	0	3	62
3	Ingredients and specific foods	28	31	0	2	0	6	67
4	Feed products	30	31	0	1	0	2	64
5	Production environmental samples	34	30	0	0	0	0	64
6	Primary production samples	26	61	1	3	0	1	92
<b>All categories</b>		<b>178</b>	<b>212</b>	<b>2</b>	<b>8</b>	<b>0</b>	<b>12</b>	<b>412</b>

**Table 6 – Interpretation of sample results between the reference and alternative method (based on the confirmed alternative method results)**

**Roche LightCycler 480II**

Category		PA	NA*	PD	ND**	PPND	PPNA	Total
1	RTE and RTRH foods	32	30	0	1	0	0	63
2	Meat Products	28	30	1	1	0	2	62
3	Ingredients and specific foods	29	33	0	1	0	4	67
4	Feed products	29	30	0	2	0	3	64
5	Production environmental samples	34	30	0	0	0	0	64
6	Primary production samples	28	61	1	1	0	1	92
<b>All categories</b>		<b>180</b>	<b>214</b>	<b>2</b>	<b>6</b>	<b>0</b>	<b>10</b>	<b>412</b>

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

The calculations are presented in:

- Table 7 for Bio-Rad CFX96
- Table 8 for Applied Biosystems 7500
- Table 9 for Agilent MX3005P
- Table 10 for Roche LightCycler 480II.

Table 7 – Calculation of the relative trueness (RT), the sensitivity (SE) and the false positive ratio (FPR) - **Bio-Rad CFX96**

Category	Type	PA	NA*	PD	ND**	PPND	PPNA	SE <sub>alt</sub> %	SE <sub>ref</sub> %	RT %	FPR %
1	a Ready-to-eat	13	8	0	1	0	1	92,9	100,0	95,7	12,5
	b Ready-to-reheat	10	10	0	0	0	0	100,0	100,0	100,0	0,0
	c Smoked and marinated products	9	11	0	0	0	0	100,0	100,0	100,0	0,0
	Total	32	29	0	1	0	1	97,0	100,0	98,4	3,3
2	a Raw products (frozen or fresh)	9	12	0	0	0	0	100,0	100,0	100,0	0,0
	b Raw poultry, frozen or not, seasoned or not	9	12	0	0	0	0	100,0	100,0	100,0	0,0
	c Delicatessen	10	8	1	1	0	0	91,7	91,7	90,0	0,0
	Total	28	32	1	1	0	0	96,7	96,7	96,8	0,0
3	a Raw ingredients	9	17	0	1	0	0	90,0	100,0	96,3	0,0
	b Infant formula and cereals with probiotics	8	10	0	1	0	1	88,9	100,0	95,0	10,0
	c Pasteurised eggs and eggs products	11	7	0	0	0	2	100,0	100,0	100,0	28,6
	Total	28	34	0	2	0	3	93,3	100,0	97,0	8,1
4	a Low moisture products	13	18	0	2	0	1	86,7	100,0	94,1	5,6
	b High moisture products	16	14	0	0	0	0	100,0	100,0	100,0	0,0
	Total	29	32	0	2	0	1	93,5	100,0	96,9	3,0
5	a Dusts and residues	13	9	0	0	0	0	100,0	100,0	100,0	0,0
	b Cleaning and Process waters	11	10	0	0	0	0	100,0	100,0	100,0	0,0
	c Surface samples	10	11	0	0	0	0	100,0	100,0	100,0	0,0
	Total	34	30	0	0	0	0	100,0	100,0	100,0	0,0
<b>Food + feed + production environmental samples</b>		<b>151</b>	<b>157</b>	<b>1</b>	<b>6</b>	<b>0</b>	<b>5</b>	<b>96,2</b>	<b>99,4</b>	<b>97,8</b>	<b>3,1</b>
6	a Animal faeces	14	28	1	2	0	0	88,2	94,1	93,3	0,0
	b Environmental samples and non-faeces	13	34	0	0	0	0	100,0	100,0	100,0	0,0
	Total	27	62	1	2	0	0	93,3	96,7	96,7	0,0
<b>All categories</b>		<b>178</b>	<b>219</b>	<b>2</b>	<b>8</b>	<b>0</b>	<b>5</b>	<b>95,7</b>	<b>98,9</b>	<b>97,6</b>	<b>2,2</b>

\* PPNA not included

\*\* PPND not included

Table 8 – Calculation of the relative trueness (RT), the sensitivity (SE) and the false positive ratio (FPR) - **Applied Biosystems 7500**

Category	Type	PA	NA*	PD	ND**	PPND	PPNA	SE <sub>alt</sub> %	SE <sub>ref</sub> %	RT %	FPR %
1	a Ready-to-eat	14	9	0	0	0	0	100,0	100,0	100,0	0,0
	b Ready-to-reheat	10	9	0	0	0	1	100,0	100,0	100,0	11,1
	c Smoked and marinated products	9	11	0	0	0	0	100,0	100,0	100,0	0,0
	Total	33	29	0	0	0	1	100,0	100,0	100,0	3,3
2	a Raw products (frozen or fresh)	9	12	0	0	0	0	100,0	100,0	100,0	0,0
	b Raw poultry, frozen or not, seasoned or not	9	12	0	0	0	0	100,0	100,0	100,0	0,0
	c Delicatessen	10	8	1	1	0	0	91,7	91,7	90,0	0,0
	Total	28	32	1	1	0	0	96,7	96,7	96,8	0,0
3	a Raw ingredients	9	17	0	1	0	0	90,0	100,0	96,3	0,0
	b Infant formula and cereals with probiotics	8	10	0	1	0	1	88,9	100,0	95,0	10,0
	c Pasteurised eggs and eggs products	11	9	0	0	0	0	100,0	100,0	100,0	0,0
	Total	28	36	0	2	0	1	93,3	100,0	97,0	2,7
4	a Low moisture products	14	19	0	1	0	0	93,3	100,0	97,1	0,0
	b High moisture products	16	11	0	0	0	3	100,0	100,0	100,0	27,3
	Total	30	30	0	1	0	3	96,8	100,0	98,4	9,1
5	a Dusts and residues	13	9	0	0	0	0	100,0	100,0	100,0	0,0
	b Cleaning and Process waters	10	10	0	1	0	0	90,9	100,0	95,2	0,0
	c Surface samples	10	11	0	0	0	0	100,0	100,0	100,0	0,0
	Total	33	30	0	1	0	0	97,1	100,0	98,4	0,0
<b>Food + feed + production environmental samples</b>		<b>152</b>	<b>157</b>	<b>1</b>	<b>5</b>	<b>0</b>	<b>5</b>	<b>96,8</b>	<b>99,4</b>	<b>98,1</b>	<b>3,1</b>
6	a Animal faeces	14	23	1	2	0	5	88,2	94,1	93,3	21,7
	b Environmental samples and non-faeces	13	28	0	0	0	6	100,0	100,0	100,0	21,4
	Total	27	51	1	2	0	11	93,3	96,7	96,7	17,7
<b>All categories</b>		<b>179</b>	<b>208</b>	<b>2</b>	<b>7</b>	<b>0</b>	<b>16</b>	<b>96,3</b>	<b>98,9</b>	<b>97,8</b>	<b>7,1</b>

\* PPNA not included

\*\* PPND not included

Table 9 – Calculation of the relative trueness (RT), the sensitivity (SE) and the false positive ratio (FPR) - **Agilent MX3005P**

Category		Type	PA	NA*	PD	ND**	PPND	PPNA	SE <sub>alt</sub> %	SE <sub>ref</sub> %	RT %	FPR %
1	RTE and RTRH foods	a Ready-to-eat	13	9	0	1	0	0	92,9	100,0	95,7	0,0
		b Ready-to-reheat	10	10	0	0	0	0	100,0	100,0	100,0	0,0
		c Smoked and marinated products	9	11	0	0	0	0	100,0	100,0	100,0	0,0
		Total	32	30	0	1	0	0	97,0	100,0	98,4	0,0
2	Meat Products	a Raw products (frozen or fresh)	9	11	0	0	0	1	100,0	100,0	100,0	9,1
		b Raw poultry, frozen or not, seasoned or not	9	11	0	0	0	1	100,0	100,0	100,0	9,1
		c Delicatessen	10	7	1	1	0	1	91,7	91,7	90,0	14,3
		Total	28	29	1	1	0	3	96,7	96,7	96,8	9,4
3	Ingredients and specific foods	a Raw ingredients	9	15	0	1	0	2	90,0	100,0	96,3	13,3
		b Infant formula and cereals with probiotics	8	9	0	1	0	2	88,9	100,0	95,0	22,2
		c Pasteurised eggs and eggs products	11	7	0	0	0	2	100,0	100,0	100,0	28,6
		Total	28	31	0	2	0	6	93,3	100,0	97,0	16,2
4	Feed products	a Low moisture products	14	18	0	1	0	1	93,3	100,0	97,1	5,6
		b High moisture products	16	13	0	0	0	1	100,0	100,0	100,0	7,7
		Total	30	31	0	1	0	2	96,8	100,0	98,4	6,1
5	Production environmental samples	a Dusts and residues	13	9	0	0	0	0	100,0	100,0	100,0	0,0
		b Cleaning and Process waters	11	10	0	0	0	0	100,0	100,0	100,0	0,0
		c Surface samples	10	11	0	0	0	0	100,0	100,0	100,0	0,0
		Total	34	30	0	0	0	0	100,0	100,0	100,0	0,0
<b>Food + feed + production environmental samples</b>			<b>152</b>	<b>151</b>	<b>1</b>	<b>5</b>	<b>0</b>	<b>11</b>	<b>96,8</b>	<b>99,4</b>	<b>98,1</b>	<b>6,8</b>
6	Primary production samples	a Animal faeces	13	28	1	3	0	0	82,4	94,1	91,1	0,0
		b Environmental samples and non-faeces	13	33	0	0	0	1	100,0	100,0	100,0	3,0
		Total	26	61	1	3	0	1	90,0	96,7	95,7	1,6
<b>All categories</b>			<b>178</b>	<b>212</b>	<b>2</b>	<b>8</b>	<b>0</b>	<b>12</b>	<b>95,7</b>	<b>98,9</b>	<b>97,6</b>	<b>5,4</b>

\* PPNA not included

\*\* PPND not included

Table 10 – Calculation of the relative trueness (RT), the sensitivity (SE) and the false positive ratio (FPR) - **Roche LightCycler 480II**

Category		Type	PA	NA*	PD	ND**	PPND	PPNA	SE <sub>alt</sub> %	SE <sub>ref</sub> %	RT %	FPR %
1	RTE and RTRH foods	a Ready-to-eat	13	9	0	1	0	0	92,9	100,0	95,7	0,0
		b Ready-to-reheat	10	10	0	0	0	0	100,0	100,0	100,0	0,0
		c Smoked and marinated products	9	11	0	0	0	0	100,0	100,0	100,0	0,0
		Total	32	30	0	1	0	0	97,0	100,0	98,4	0,0
2	Meat Products	a Raw products (frozen or fresh)	9	11	0	0	0	1	100,0	100,0	100,0	9,1
		b Raw poultry, frozen or not, seasoned or not	9	12	0	0	0	0	100,0	100,0	100,0	0,0
		c Delicatessen	10	7	1	1	0	1	91,7	91,7	90,0	14,3
		Total	28	30	1	1	0	2	96,7	96,7	96,8	6,3
3	Ingredients and specific foods	a Raw ingredients	10	16	0	0	0	1	100,0	100,0	100,0	6,3
		b Infant formula and cereals with probiotics	8	10	0	1	0	1	88,9	100,0	95,0	10,0
		c Pasteurised eggs and eggs products	11	7	0	0	0	2	100,0	100,0	100,0	28,6
		Total	29	33	0	1	0	4	96,7	100,0	98,5	10,8
4	Feed products	a Low moisture products	13	17	0	2	0	2	86,7	100,0	94,1	11,8
		b High moisture products	16	13	0	0	0	1	100,0	100,0	100,0	7,7
		Total	29	30	0	2	0	3	93,5	100,0	96,9	9,1
5	Production environmental samples	a Dusts and residues	13	9	0	0	0	0	100,0	100,0	100,0	0,0
		b Cleaning and Process waters	11	10	0	0	0	0	100,0	100,0	100,0	0,0
		c Surface samples	10	11	0	0	0	0	100,0	100,0	100,0	0,0
		Total	34	30	0	0	0	0	100,0	100,0	100,0	0,0
<b>Food + feed + production environmental samples</b>			<b>152</b>	<b>153</b>	<b>1</b>	<b>5</b>	<b>0</b>	<b>9</b>	<b>96,8</b>	<b>99,4</b>	<b>98,1</b>	<b>5,6</b>
6	Primary production samples	a Animal faeces	15	27	1	1	0	1	94,1	94,1	95,6	3,7
		b Environmental samples and non-faeces	13	34	0	0	0	0	100,0	100,0	100,0	0,0
		Total	28	61	1	1	0	1	96,7	96,7	97,8	1,6
<b>All categories</b>			<b>180</b>	<b>214</b>	<b>2</b>	<b>6</b>	<b>0</b>	<b>10</b>	<b>96,8</b>	<b>98,9</b>	<b>98,1</b>	<b>4,5</b>

\* PPNA not included

\*\* PPND not included



A summary of the results is given in Table 11.

**Table 11 - Summary of results**

		Bio-Rad CFX96	Applied Biosystems 7500	Agilent MX3005P	Roche LightCycler 480II
Sensitivity for the alternative method	$SE_{alt} = \frac{(PA+PD)}{(PA+ND+PD)} \times 100\%$	95.7 %	96.3 %	95.7 %	96.8 %
Sensitivity for the reference method	$SE_{ref} = \frac{(PA+ND)}{(PA+ND+PD)} \times 100\%$	98.9 %	98.9 %	98.9 %	98.9 %
Relative trueness	$RT = \frac{(PA+NA)}{N} \times 100\%$	97.6 %	97.8 %	97.6 %	98.1 %
False positive ratio for the alternative method* FP = PPNA + PPND	$FPR = \frac{(FP)}{NA} \times 100\%$	2.2 %	7.1 %	5.4 %	4.5 %

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

### 3.1.6 Analysis of discordant results

The negative deviations are given in Table 12 and the positive deviations in Table 13.

Table 12 - Negative deviations

N° Sample	Product	Artificial contaminations		ISO 6579-1♦	Alternative method: BioChek Salmonella Species DNA Test Kit																		Category	Type
					PCR (BPW or MKTTn)												Confirmatory tests (ISO 6579-1)	Final result Bio-Rad CFX96	Final result ABS 7500	Final result Agilent MX3005P	Final result Roche LightCycler 480II	Agreement Bio-Rad CFX96		
		Bio-Rad CFX96			ABS 7500		Agilent MX3005P		Roche LightCycler 480II															
		Strain	Inoculation level (CFU/sample)	Result	Cq (FAM)	Cq (HEX)	Result	Cq (FAM)	Result	Cq (FAM)	Result	Cq (FAM)	Result											
1221	Infant formula with probiotics	S. Anatum Ad1167	3,4	+	NA/35,43/NA	30,22/29,45/29,29	-/+	N/A	-	NA	-	NA	-	+	-	-	-	-	ND	ND	ND	ND	3	c
2096	Mayonnaise	S. Mbandaka Ad914	3,0	+	N/A/N/A/N/A	37,22/36,98/37,62	-/-	37,39	+	N/A	-	N/A	-	+	-	+	-	-	ND	PA	ND	ND	1	a
2408	Sausages	S. Bredeney 243	1,2	+	N/A/N/A/N/A	30,63/30,52/30,36	-/-	N/A	-	N/A	-	N/A	-	+	-	-	-	-	ND	ND	ND	ND	2	c
3270	Savory	S. Virchow Ad2569	7,0	+	N/A 36,99*	N/A 29,18*	i +*	N/A N/A*	i -*	N/A N/A*	i -*	N/A 35,00*	i +*	+	+	-	-	+	PA	ND	ND	PA	3	a
3532	Thyme	S. Infantis Ad1646	5,6	+	N/A N/A/35,86/ N/A*	N/A 29,54/29,78/ 29,28*	i -/+*	35,76	+	35,14	+	34,22	+	+	-	+	+	+	ND	PA	PA	PA	3	a
2420	Rabbit pellets	S. Agona AOOV038	3,0	+	37,30	31,11	+	36,09	+	36,28	+	N/A	-	+	+	+	+	-	PA	PA	PA	ND	4	a
5381	Bovine feed	S. Montevideo Ad2421	4,2	+	N/A/N/A/N/A	32,18/32,32/ 32,16	-/-	N/A	-	N/A	-	N/A	-	+	-	-	-	-	ND	ND	ND	ND	4	a
5382	Ovine feed	S. Idikan Ad2567	2,6	+	N/A/N/A/39,05	31,15/31,62/ 31,38	-/-	38,44	+	38,30	+	35,00	+	+	-	+	+	+	ND	PA	PA	PA	4	a
2239	Process water (pâté production)	S. Typhimurium Ad1070	1,2	+	19,23	29,59	+	N/A	-	19,52	+	19,00	+	+	+	-	+	+	PA	ND	PA	PA	5	b
1654	Poultry faeces	S. Anatum Ad1108	2,0	+	N/A/N/A/N/A	35,23/37,05/ 34,78	-/-	N/A	-	N/A	-	N/A	-	+	-	-	-	-	ND	ND	ND	ND	6	a
5529	Poultry faeces	S. Typhimurium Ad1411	4,4	+	N/A/N/A/N/A	31,49/31,35/ 31,22	-/-	N/A	-	N/A	-	35,00	+	+	-	-	-	+	ND	ND	ND	PA	6	a
5764	Poultry faeces	S. Haifa Ad1727	3,8	+	38,03	32,77	+	38,27	+	N/A	-	35,00	+	+	+	-	+	+	PA	PA	ND	PA	6	a

\*: inhibition: DNA extract diluted (1/10)

Table 13 - Positive deviations

N° Sample	Product	Artificial contaminations		ISO 6579-1♦	Alternative method: BioChek Salmonella Species DNA Test Kit																		Category	Type
					PCR (BPW or MKTTn)												Confirmatory tests (ISO 6579-1)	Final result Bio-Rad CFX96	Final result ABS 7500	Final result Agilent MX3005P	Final result Roche LightCycler 480II	Agreement Bio-Rad CFX96		
		Bio-Rad CFX96			ABS 7500		Agilent MX3005P		Roche LightCycler 480II															
		Strain	Inoculation level (CFU/sample)	Result	Cq (FAM)	Cq (HEX)	Result	Cq (FAM)	Result	Cq (FAM)	Result	Cq (FAM)	Result											
361	Sausages without salt	/	/	-	30,96	29,43	+	30,53	+	30,20	+	30,05	+	+	+	+	+	+	PD	PD	PD	PD	2	c
1285	Pork faeces	S. Livingstone Ad2278	3,8	-	14,95	N/A	+	17,55	+	16,89	+	17,81	+	+(x5 MSRV)	+	+	+	+	PD	PD	PD	PD	6	a

12 samples were concerned by the negative deviations:

- 8 for the Bio-Rad CFX96
- 7 for the Applied Biosystems 7500
- 8 for the Agilent MX3005P
- 6 for the Roche LightCycler 480II.

All the samples were artificially contaminated; they were probably all contaminated just at the limit of detection of the different cyclers. As late Ct values were observed except for sample 2329 (Process water) which gave low Ct values for 3 cyclers (Bio-Rad CFX96: 19.23; Agilent MX3005P: 19.52, Roche LightCycler 480II: 19.00) and a negative PCR result using the Applied Biosystems 7500.

For the primary production samples category, 3 samples were in negative deviations (1654, 5529 and 5764). For samples 1654 and 5529, typical colonies were observed for the reference method only from subculture on MSRV. For sample 5764, a negative PCR result was obtained only when using the Agilent MX3005P.

2 positive deviations were observed with the 4 tested cyclers. One concerns a food product and one a primary production sample. The presence of *Salmonella* was confirmed using MSRV for the food sample (361) and by testing 5 MSRV for sample 1285.

The analyses of discordant results according to the EN ISO 16140-2:2016 is the following (See Tables 14 to 17).

Table 14 - Analyses of discordant results - **Bio-Rad CFX96**

Category	Type	Study design	N+	PD	ND+PPND	(ND+PPND)-PD	AL	(ND+PPND)+PD	AL
1	RTE and RTRH foods	a Ready-to-eat	Paired	14	0	1	1	1	
		b Ready-to-reheat	Paired	10	0	0	0	0	
		c Smoked and marinated products	Paired	9	0	0	0	0	
	Total			33	0	1	1	3	1
2	Meat Products	a Raw products (frozen or fresh)	Paired	9	0	0	0	0	
		b Raw poultry, frozen or not, seasoned or not	Paired	9	0	0	0	0	
		c Delicatessen	Paired	12	1	1	0	2	
	Total			30	1	1	0	3	2
3	Ingredients and specific foods	a Raw ingredients	Paired	10	0	1	1	1	
		b Infant formula and cereals with probiotics	Paired	9	0	1	1	1	
		c Pasteurised eggs and eggs products	Paired	11	0	0	0	0	
	Total			30	0	2	2	3	2
4	Feed products	a Low moisture products	Paired	15	0	2	2	2	
		b High moisture products	Paired	16	0	0	0	0	
	Total			31	0	2	2	3	2
5	Production environmental samples	a Dusts and residues	Paired	13	0	0	0	0	
		b Cleaning and Process waters	Paired	11	0	0	0	0	
		c Surface samples	Paired	10	0	0	0	0	
	Total			34	0	0	0	3	0
<b>Food + feed + production environmental samples</b>			<b>158</b>	<b>1</b>	<b>6</b>	<b>5</b>	<b>5</b>	<b>7</b>	<b>14</b>
6	Primary production samples	a Animal faeces	Paired	17	1	2	1	3	
		b Environmental samples and non-faeces	Paired	13	0	0	0	0	
	Total			30	1	2	1	3	3
<b>All categories</b>			<b>188</b>	<b>2</b>	<b>8</b>	<b>6</b>	<b>6</b>	<b>10</b>	<b>16</b>

Table 15 - Analyses of discordant results - **Applied Biosystems 7500**

Category	Type	Study design	N+	PD	ND+PPND	(ND+PPND)-PD	AL	(ND+PPND)+PD	AL
1	RTE and RTRH foods	a Ready-to-eat	Paired	14	0	0	0	0	
		b Ready-to-reheat	Paired	10	0	0	0	0	
		c Smoked and marinated products	Paired	9	0	0	0	0	
	Total			33	0	0	0	3	0
2	Meat Products	a Raw products (frozen or fresh)	Paired	9	0	0	0	0	
		b Raw poultry, frozen or not, seasoned or not	Paired	9	0	0	0	0	
		c Delicatessen	Paired	12	1	1	0	2	
	Total			30	1	1	0	3	2
3	Ingredients and specific foods	a Raw ingredients	Paired	10	0	1	1	1	
		b Infant formula and cereals with probiotics	Paired	9	0	1	1	1	
		c Pasteurised eggs and eggs products	Paired	11	0	0	0	0	
	Total			30	0	2	2	3	2
4	Feed products	a Low moisture products	Paired	15	0	1	1	1	
		b High moisture products	Paired	16	0	0	0	0	
	Total			31	0	1	1	3	1
5	Production environmental samples	a Dusts and residues	Paired	13	0	0	0	0	
		b Cleaning and Process waters	Paired	11	0	1	1	1	
		c Surface samples	Paired	10	0	0	0	0	
	Total			34	0	1	1	3	1
<b>Food + feed + production environmental samples</b>			<b>158</b>	<b>1</b>	<b>5</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>14</b>
6	Primary production samples	a Animal faeces	Paired	17	1	2	1	3	
		b Environmental samples and non-faeces	Paired	13	0	0	0	0	
	Total			30	1	2	1	3	3
<b>All categories</b>			<b>188</b>	<b>2</b>	<b>7</b>	<b>5</b>	<b>6</b>	<b>9</b>	<b>16</b>

Table 16 - Analyses of discordant results - **Agilent MX3005P**

Category	Type	Study design	N+	PD	ND+PPND	(ND+PPND) -PD	AL	(ND+PPND) +PD	AL
1	RTE and RTRH foods	a Ready-to-eat	Paired	14	0	1	1	1	
		b Ready-to-reheat	Paired	10	0	0	0	0	
		c Smoked and marinated products	Paired	9	0	0	0	0	
	Total			33	0	1	1	3	1
2	Meat Products	a Raw products (frozen or fresh)	Paired	9	0	0	0	0	
		b Raw poultry, frozen or not, seasoned or not	Paired	9	0	0	0	0	
		c Delicatessen	Paired	12	1	1	0	2	
	Total			30	1	1	0	3	2
3	Ingredients and specific foods	a Raw ingredients	Paired	10	0	1	1	1	
		b Infant formula and cereals with probiotics	Paired	9	0	1	1	1	
		c Pasteurised eggs and eggs products	Paired	11	0	0	0	0	
	Total			30	0	2	2	3	2
4	Feed products	a Low moisture products	Paired	15	0	1	1	1	
		b High moisture products	Paired	16	0	0	0	0	
	Total			31	0	1	1	3	1
5	Production environmental samples	a Dusts and residues	Paired	13	0	0	0	0	
		b Cleaning and Process waters	Paired	11	0	0	0	0	
		c Surface samples	Paired	10	0	0	0	0	
	Total			34	0	0	0	3	0
<b>Food + feed + production environmental samples</b>			<b>158</b>	<b>1</b>	<b>5</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>14</b>
6	Primary production samples	a Animal faeces	Paired	17	1	3	2	4	
		b Environmental samples and non-faeces	Paired	13	0	0	0	0	
	Total			30	1	3	2	3	4
<b>All categories</b>			<b>188</b>	<b>2</b>	<b>8</b>	<b>6</b>	<b>6</b>	<b>10</b>	<b>16</b>

Table 17 - Analyses of discordant results - **Roche LightCycler 480II**

Category	Type	Study design	N+	PD	ND+PPND	(ND+PPND) -PD	AL	(ND+PPND) +PD	AL
1	a	Ready-to-eat	Paired	14	0	1	1	1	
	b	Ready-to-reheat	Paired	10	0	0	0	0	
	c	Smoked and marinated products	Paired	9	0	0	0	0	
	Total			33	0	1	1	3	1
2	a	Raw products (frozen or fresh)	Paired	9	0	0	0	0	
	b	Raw poultry, frozen or not, seasoned or not	Paired	9	0	0	0	0	
	c	Delicatessen	Paired	12	1	1	0	2	
	Total			30	1	1	0	3	2
3	a	Raw ingredients	Paired	10	0	0	0	0	
	b	Infant formula and cereals with probiotics	Paired	9	0	1	1	1	
	c	Pasteurised eggs and eggs products	Paired	11	0	0	0	0	
	Total			30	0	1	1	3	1
4	a	Low moisture products	Paired	15	0	2	2	2	
	b	High moisture products	Paired	16	0	0	0	0	
	Total			31	0	2	2	3	2
5	a	Dusts and residues	Paired	13	0	0	0	0	
	b	Cleaning and Process waters	Paired	11	0	0	0	0	
	c	Surface samples	Paired	10	0	0	0	0	
	Total			34	0	0	0	3	0
<b>Food + feed + production environmental samples</b>			<b>158</b>	<b>1</b>	<b>5</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>14</b>
6	a	Animal faeces	Paired	17	1	1	0	2	
	b	Environmental samples and non-faeces	Paired	13	0	0	0	0	
	Total			30	1	1	0	3	2
<b>All categories</b>			<b>188</b>	<b>2</b>	<b>6</b>	<b>4</b>	<b>6</b>	<b>8</b>	<b>16</b>

The observed values for ((ND + PPND) - PD) and (ND + PPND + PD) meet the acceptability limit for each individual category and for all the combined categories (calculated values  $\leq$  AL).

### 3.1.7 Confirmation

The confirmatory tests applied were those described in the ISO 6579-1 method.

Samples for which the positive PCR result was impossible to confirm are listed in Table 18.

**Table 18 - Samples for which the positive PCR result was impossible to confirm**

Categories	Sample No	Product	PCR results			
			Bio-Rad CFX96 (Cq)	Applied Biosystems 7500 (Cq)	Agilent MX3005P (Cq)	Roche LightCycler 480II (Cq)
Food and feed samples	1821	RTE (fish terrine)	+/-/ (37.68)	-	-	-
	2053	Egg powder	+ / + / + (35.29/36.82/36.91)	-	-	+ (35.00)
	2056	Egg powder	+ / + / + (34.89/36.38/37.77)	-	+ (36.16)	+ (35.00)
	2932	Cereals with probiotics	+ / + / + (34.89/36.38/37.77)	-	+ (36.16)	+ (35.00)
	3276	Croquettes for cats	+ / - / - 37.7	-	-	-
	1005	RTRH pork	-	+ (34.75)	-	-
	5336	Sausage for dog	-	+ (38.53)	-	+ (35.00)
	5337	Sausage for dog	-	+ (39.18)	+ (38.32)	-
	2275	Paprika	-	-	+ (33.39)	-
	2282	Chili	-	-	+ (37.92)	-
	2418	Pellets for cats	-	-	+ (38.39)	+ (35.00)
	2935	Egg white powder	-	-	+ (33.14)	-
	2417	Pellets for cats	-	-	-	+ (35.00)
	3274	Colombo	-	-	-	+ (35.00)
primary production samples	945	Pork faeces	-	+ (36.49)	-	-
	954	Bootsock	-	+ (37.31)	-	-
	1228	Water from drinkers	-	+ (34.73)	-	-
	1231	Wipe	-	+ (34.76)	-	-
	1280	Wipe	-	+ (36.31)	-	-
	1408	Poultry faeces	-	+ (34.06)	-	-
	1414	Wipe	-	+ (34.36)	+ (36.04)	-
	1651	Wipe	-	+ (32.59)	-	-
	5520	Poultry faeces	-	+ (36.79)	-	+ (35.00)
	5535	Poultry faeces	-	+ (34.82)	-	-
	5762	Water from drinkers	-	+ (36.17)	-	-
<b>Total</b>			<b>5</b>	<b>14</b>	<b>8</b>	<b>8</b>



For samples 2053 and 2056, a PCR test was run on a 1/10 suspension of the matrix in BPW without any incubation: a positive result (Cq FAM = 35.76) was observed for sample 2053 and a negative result for sample 2056. Sample 2053 probably contained large amount of DNA from dead *Salmonella* cells.

For samples 1821, 2932 and 3276, 5 RVS, 5 MKTTn and 5 MSRv were inoculated and it was impossible to confirm the presence of *Salmonella* spp in the enrichment broth.

For the other samples, as the PCR results were received several weeks after the enrichment step (PCR run by BioChek), it was too late to proceed to additional confirmatory tests.



The number of positive presumptive not confirmed samples was higher when the tests were run on the DNA extracts sent to BioChek.

### **3.1.8 PCR inhibition**

1648 DNA extracts were tested for the sensitivity study (412 per thermocycler); the samples for which PCR inhibitions were observed are listed in Table 19.

Table 19 - PCR inhibitions

Sample N°	Product	Bio-Rad CFX96			ABS 7500		Agilent MX3005P		Roche LightCycler 480II		Category	Type
		Cq (FAM)	Cq (HEX)	Result	Cq (FAM)	Result	Cq (FAM)	Result	Cq (FAM)	Result		
1005	RTRH (pork)	N/A	30,36	-	N/A 34,75*	i +*	N/A	-	N/A	-	1	b
376	Raw chicken meat	N/A	34,14	-	N/A N/A*	i -*	N/A	-	N/A	-	2	b
2277	Herb (thyme)	N/A N/A*	N/A 29,50*	i -*	N/A N/A*	i -*	N/A	-	N/A	-	5	a
2278	Herb (basil)	N/A N/A*	N/A 29,82*	i -*	N/A	-	N/A	-	N/A	-	5	a
2279	Spice (oregano)	N/A N/A*	N/A 29,59*	i -*	N/A N/A*	i -*	N/A	-	N/A	-	5	a
2280	Spice (coriander)	N/A	30,55	-	N/A N/A*	i -*	N/A	-	N/A N/A*	i -*	5	a
2281	Spice (cinnamon)	N/A N/A*	N/A 29,66*	i -*	N/A	-	N/A N/A*	i -*	N/A N/A*	i -*	5	a
2286	Cocoa powder	N/A 29,96*	N/A 29,54*	i +*	29,77	+	29,36	+	N/A 30,87*	i +*	5	a
2288	Savoury cocoa powder	N/A N/A*	N/A 29,60*	i -*	N/A N/A*	i -*	N/A	-	N/A N/A*	i -*	5	a
3270	Savoury	N/A 36,99*	N/A 29,18*	i +*	N/A N/A*	i -*	N/A N/A*	i -*	N/A 35,00*	i +*	5	a
3530	Cinnamon	N/A N/A*	N/A 29,72*	i -*	N/A N/A*	i -*	N/A N/A*	i -*	N/A N/A*	i -*	5	a
3531	Coriander	N/A N/A*	N/A 29,68*	i -*	N/A N/A*	i -*	N/A	-	N/A N/A*	i -*	5	a
3532	Thyme	N/A N/A/35,86/ N/A*	N/A 29,54/29,78/ 29,28*	i -/+/-*	35,76	+	35,14	+	34,22	+	5	a
4226	Pasteurised yellow liquid egg	N/A N/A*	N/A 33,10*	i -*	N/A N/A*	i -*	N/A	-	N/A	-	5	c
585	Wipe (poultry industry)	N/A	29,35	-	N/A N/A*	i -*	N/A	-	N/A	-	7	c
1227	Poultry faeces	N/A N/A*	38,62 30,04*	i -*	N/A	-	N/A N/A*	i -*	N/A	-	8	a
4404	Poultry faeces	N/A	37,69	-	N/A	-	N/A N/A*	i -*	N/A	-	8	a
4405	Poultry faeces	N/A N/A*	38,31 29,31*	i -*	N/A	-	N/A N/A*	i -*	N/A	-	8	a
4407	Poultry faeces	N/A N/A*	38,33 28,95*	i -*	N/A N/A*	i -*	N/A N/A*	i -*	N/A	-	8	a
5528	Poultry faeces	N/A	31,70	-	N/A N/A*	i -*	N/A	-	N/A	-	8	a
1411	Water from drinker (poultry)	N/A	33,75	-	N/A	-	N/A	-	N/A N/A*	i -*	8	b
1560	Water from drinkers (pork)	N/A N/A*	N/A 29,70*	i -*	N/A	-	N/A	-	N/A	-	8	b
4410	Poultry litter	N/A	35,73	-	N/A	-	N/A N/A*	i -*	N/A	-	8	b

\*: DNA extract diluted (1/10)  
 i: invalid result (inhibition)  
 sample in negative deviation  
 positive presumptive not confirmed result

**Table 20 - Number of inhibitions per thermocycler**

Thermocycler	Number of inhibitions	Percentage of inhibitions
Bio-Rad CFX96	15	3.6 %
Applied Biosystems 7500	13	3.1 %
Agilent MX3005P	8	1.9 %
Roche LightCycler 480II	8	1.9 %

The percentage of inhibitions is very low and varies from 1.9 % to 3.6 % depending on the thermocyclers tested. A 1/10 dilution of the DNA extract allowed to obtain a result.

### 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:

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

*The relative detection level is the smallest number of culturable micro-organisms that can be detected in the sample in 50% of occasions by the alternative and reference methods.*

#### 3.2.1 Experimental design

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

The following protocol was applied:

- 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	Inoculation and storage condition
1. Ready to eat and ready to reheat foods	Mayonnaise based deli salad (macédoine)	S. Mbandaka Ad914	Seeding 48 h at 3°C ± 2°C
2. Meat products	Ground beef	S. Typhimurium A00C060	Seeding 48 h at 3°C ± 2°C
3. Ingredients and specific products	Pasteurized whole liquid egg	S. Havana Ad1728	Seeding 48 h at 3°C ± 2°C
4. Feed products	Pet food (dog croquettes)	S. Montevideo Ad1503	Seeding lyophilized strain 2 weeks at ambient temperature
5. Production environmental samples	Process water	S. Livingstone A00E058	Seeding 48 h at 3°C ± 2°C
6. Primary production samples (PPS)	Poultry faeces	S. Enteritidis 657	Seeding 24 h at ambient temperature

### 3.2.2 Calculation and interpretation of the RLOD

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

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 Table 22.

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

Category	Name	RLOD	RLODL	RLODU	b=ln(RLOD)	sd(b)	z-Test statistic	p-value
1	Deli Salad - S. Mbandaka Ad914	1,000	0,420	2,383	0,000	0,434	0,000	1,000
2	Ground beef - S. Typhimurium A00C060	1,112	0,523	2,364	0,106	0,377	0,281	0,779
3	Liquid egg product - S. Havana Ad1728	1,000	0,477	2,097	0,000	0,370	0,000	1,000
4	Dog croquettes - S. Derby Ad1878	1,000	0,387	2,582	0,000	0,474	0,000	1,000
5	Process water - S. Livingstone A00E058	1,000	0,473	2,113	0,000	0,374	0,000	1,000
6	Poultry faeces - S. Enteritidis 657	0,794	0,338	1,863	-0,231	0,427	0,542	1,412
<b>Combined</b>		<b>0,982</b>	<b>0,712</b>	<b>1,355</b>	<b>-0,018</b>	<b>0,161</b>	<b>0,112</b>	<b>1,089</b>

**The RLOD are below the AL fixed at 1.5 for a paired study design for all the tested matrix/strain pairs.**

The LOD<sub>50%</sub> calculations according to Wilrich & Wilrich POD-LOD calculation program - version 11, 2022-10-012 test are given in Table 23.

**Table 23 –LOD<sub>50%</sub>results**

Category	(matrix / strain) pair	Level of detection at 50% (CFU / test portion) according to Wilrich & Wilrich <sup>1</sup>	
		Reference method	Alternative method
1	Deli Salad - S. Mbandaka Ad914	0,7 [0,4-1,3]	0,7 [0,4-1,3]
2	Ground beef - S. Typhimurium A00C060	0,6 [0,4-1,1]	0,7 [0,4-1,2]
3	Liquid egg product - S. Havana Ad1728	0,5 [0,3-0,8]	0,5 [0,3-0,8]
4	Dog croquettes - S. Derby Ad1878	3,8 [1,9-7,4]	3,8 [1,9-7,4]
5	Process water - S. Livingstone A00E058	0,4 [0,2-0,7]	0,4 [0,2-0,7]
6	Poultry faeces - S. Enteritidis 657	3,4 [1,8-6,3]	2,7 [1,5-4,8]
<b>Combined</b>		<b>1,2 [1,0-1,6]</b>	<b>1,2 [0,9-1,5]</b>

**The LOD<sub>50</sub> varies from 0.4 to 3.8 CFU /test portion for both the alternative and the reference 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.*

#### 3.3.1 Test protocols

##### > Inclusivity

*Salmonella* strain cultures were performed in BHI medium at 37°C. Dilutions were done in order to inoculate 10 cells/225 ml of BPW broth. The broth was incubated for 16 h at 34 – 38°C before performing the alternative method protocol (PCR and confirmation).

##### > Exclusivity

Negative strains cultures were performed in BHI at 37°C. Dilutions were realised in order to inoculate 10<sup>5</sup> cells/ml BPW. The BPW was incubated for 24 h at 34 - 38°C. The alternative method was then performed (PCR).

<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.

### 3.3.2 Results

Raw data are given in **Appendix 7**.

#### > Inclusivity

100 *Salmonella* strains were tested; they all gave positive PCR results with the four tested thermocyclers.

#### > Exclusivity

30 non-target strains were tested; no cross reaction was observed for the four thermocyclers tested, except for one strain (*Escherichia coli* 19 which gave a positive PCR using the Agilent MX3005P. It was asked to BioChek to test the 3 DNA extracts sent for this strain on the different thermocyclers. The results are the following (See Table 24).

**Table 24 - Additional testing on *Escherichia coli* 19**

	Extract N°	Bio-Rad CFX96 (Cq FAM)	ABS 7500 (Cq FAM)	Agilent MX3005P (Cq FAM)	Roche LightCycler 480II (Cq FAM)
<i>Escherichia coli</i> Adria 19	A258	/	N/A	N/A	N/A
	B188	/	+ (33,70)	+ (34,07/32,97)	+ (33,21)
	C351	/	+ (32,78)	+ (32,80)	N/A
	13 (Adria)	N/A	/	/	/

One of the DNA extracts, B188, gave a positive PCR with the three tested cyclers, DNA extract C351 with two of them. This could perhaps be explained by cross contamination or by an error when preparing the extracts for shipment to BioChek (UK) Ltd..

**The alternative method is specific and selective.**

### 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>	BioChek DNA lysis extraction buffer is stored at room temperature (20 - 25°C). The <i>Salmonella</i> species DNA test kit needs to be stored at -20°C. The shelf-life is given on the package. All the reagents shall be stored at the temperature mentioned on the package labels.				
<b>Time to result</b>	Steps	<b>Reference method</b>		<b>Alternative method</b>	
		<b>Food, feed, environment</b>	<b>PPS</b>	<b>Food, feed, environment</b>	<b>PPS</b>
	Sampling enrichment	Day 0	Day 0	Day 0	Day 0
	Selective enrichment step	Day 1	Day 1	/	Day 1
	PCR	/	/	Day 1	Day 2
	Streaking onto selective agar plates	Day 2	Day 3	/	/
	Selective agar plates reading	Day 3	Day 4	/	/
	<b>Negative results</b>	<b>Day 3</b>	<b>Day 4</b>	<b>Day 1</b>	<b>Day 2</b>
	Streaking typical colonies onto nutrient agar	Day 3	Day 4	Day 3	Day 4
	Biochemical test	Day 3	Day 4	Day 3	Day 4
	Serological test and biochemical test reading	Day 4	Day 5	Day 4	Day 5
	<b>Positive results</b>	<b>Day 4</b>	<b>Day 5</b>	<b>Day 4</b>	<b>Day 5</b>
<b>Common step with the reference method</b>	Enrichment step and confirmatory tests				

The negative results are available in 1 day for food and feed and in 2 days for primary production samples and the positive results in 4 or 5 days.

## 4 INTER-LABORATORY STUDY

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

### 4.1 Study organisation

#### > Collaborators number

Samples were sent to 7 laboratories, 2 collaborators were involved for Lab A, 2 for Lab B, 3 for lab C, 2 for Lab D, 2 for Lab E, 2 for Lab F and 1 for Lab G. Finally, 14 collaborators were involved in the study.

#### > Matrix and strain used

Ground beef was inoculated with *Salmonella* Typhimurium A00C060 isolated from ground beef.

#### > Samples

Samples were prepared and inoculated on Monday 20<sup>th</sup> May 2019 as described below:

- 24 blind coded samples (25 g) for *Salmonella* spp. detection by the BioChek *Salmonella* Species DNA Test kit method and by the ISO 6579-1 (2017) reference method
- 1 sample for aerobic mesophilic flora enumeration by ISO 4833-1 method
- 1 water flask labelled "Temperature Control" with a temperature probe.

#### > Inoculation

The targeted inoculation levels were the following:

- 0 CFU/25 g
- LOD level: 1.5 CFU/25 g in order to get as much as possible a fractional positive recovery
- 6 CFU/25 g.



### > Labelling and shipping

Blind coded samples were placed in isothermal boxes, which contained cooling blocks, and express-shipped to the different laboratories.

A temperature control flask containing a sensor was added to the package in order to register the temperature profile during the transport, the package delivery and storage until analyses.

Samples were shipped in 24 h to 48 h to the involved laboratories. The temperature conditions had to stay lower or equal to 8°C during transport, and between 0°C – 8°C in the labs.

### > Analyses

Collaborative study laboratories carried out the analyses on Tuesday 21<sup>st</sup> of May 2019 and the Expert Laboratory on Wednesday 22<sup>nd</sup> of May 2019 with the alternative and reference methods. **The analyses by the reference method and the alternative method were performed on the same day.**

## 4.2 Experimental parameters controls

### 4.2.1 Strain stability and background microflora stability

Strain stability was checked by inoculating the matrix at 1.5 CFU/25 g and 1000 CFU/g. Enumerations were performed for the high contamination level and detection analyses were performed for the low contamination level after 24 h and 48 h storage at  $3 \pm 2^\circ\text{C}$ . *Triplicates* were analysed. The aerobic mesophilic flora was also enumerated; the results are given in Table 25.

Table 25 - Sample stability

Day	Reference method (detection)			Enumeration (CFU/g)			Aerobic mesophilic flora (CFU/g)
	Sample 1	Sample 2	Sample 3	Sample 1	Sample 2	Sample 3	
Day 0	+	+	+	1500	2100	3000	$8,0 \cdot 10^2$
Day 1	+	+	+	1000	1500	1200	$1,4 \cdot 10^3$
Day 2	+	+	+	1900	2300	900	$4,7 \cdot 10^3$

No evolution was observed during storage at  $3^\circ\text{C} \pm 2^\circ\text{C}$ .

## 4.2.2 Contamination levels

The contamination levels and the sample codification were the following (see Table 26).

**Table 26 - Contamination levels**

Level	Samples	Theoretical target level (b/25g)	True level (b/25g sample)	Low limit / 25g sample	High limit / 25g sample
0	1-6-9-11-15-20-23-24 25-27-30-35-39-40-44-48 49-51-54-58-62-66-69-72	0	0	/	/
1	2-4-7-13-18-19-21-22 26-33-36-38-42-43-46-47 50-55-59-61-64-67-68-71	1.5	2.1	1.8	2.6
2	3-5-8-10-12-14-16-17 28-29-31-32-34-37-41-45 52-53-56-57-60-63-65-70	6.0	8.1	6.5	10.1

## 4.2.3 Logistic conditions

Temperature conditions are given in Table 27.

**Table 27 - Sample temperatures at receipt**

Laboratory	Temperature measured by the probe (°C)	Temperature measured at receipt (°C)	Receipt date and time		Analysis date	
A1	3,5	3,96	21/05/2019	10:00 AM	21/05/2019	2:00 PM
A2	3,5	4,21	21/05/2019	10:00 AM	21/05/2019	2:00 PM
B1	2,5	10,5	21/05/2019	8:10 AM	21/05/2019	2:00 PM
B2	4,0	10,6	21/05/2019	8:10 AM	21/05/2019	2:00 PM
C1	3,5	3,5	21/05/2019	10:00 AM	21/05/2019	12:00 PM
C2	3,5	4,1	21/05/2019	10:00 AM	21/05/2019	12:00 PM
C3	3,0	3,9	21/05/2019	10:00 AM	21/05/2019	12:00 PM
D1	5,4	4,0	21/05/2019	9:00 AM	21/05/2019	3:30 PM
D2	5,1	4,1	21/05/2019	9:00 AM	21/05/2019	3:30 PM
E1	5,0	3,64	21/05/2019	11:10 AM	22/05/2019	10:00 AM
E2	5,5	4,15	21/05/2019	11:10 AM	22/05/2019	10:00 AM
F1	3,0	3,8	21/05/2019	9:30 AM	21/05/2019	2:00 PM
F2	2,5	5,1	21/05/2019	9:30 AM	21/05/2019	2:00 PM
G	3,5	4,0	21/05/2019	11:30 AM	21/05/2019	12:00 PM

No problem was encountered during the transport or at receipt for the 14 collaborators. All the samples were delivered on time and in appropriate conditions. Temperatures during shipment and at receipt were all correct, except for the Laboratory B (collaborators B1 and B2); the temperatures measured at receipt were 10.5°C and 10.6°C but the temperatures measured by the probes were correct (2.5 and 4.0°C).

### 4.3 Results analysis

The raw data are given in **Appendix 8**.

#### 4.3.1 Expert laboratory results

The results obtained by the expert laboratory are given in Table 28.

**Table 28 – Results obtained by the expert Lab.**

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

#### 4.3.2 Results observed by the collaborative laboratories

##### > *Aerobic mesophilic flora enumeration*

Depending on the Lab results, the enumeration levels varied from < 10 to 5.8 10<sup>7</sup>CFU/g.

##### > *Salmonella spp. detection*

14 collaborators participated to the study and used the following thermocycler (See Table 29).

Table 29 – Thermocyclers used by the collaborators

Thermocycler							
CFX-96		ABI 7500		Mx3005p		LC 480	
Lab	Software version ILS	Lab	Software version ILS	Lab	Software version ILS	Lab	Software version ILS
B1	Excluded data	A1	2.04	C1	4.10	D2	1.5.1
B2	Excluded data	A2	2.04	C2	4.10	E1	1.5.1
F1	4.1.2433.1219	D1	1.5.1	C3	4.10	E2	Excluded data
F2	Excluded data						
G	4.1.2433.1219						
Adria	4.1.2433.1219	BioChek	2.06	BioChek	4.10	BioChek	1.5

The results obtained are provided in Table 30 (reference method) and Table 31 (alternative method).

Table 30 - Positive results by the reference method (**ALL the collaborators**)

Collaborators	Contamination level		
	L0	L1	L2
A1	0	7	8
A2	0	7	8
B1	1	8	8
B2	0	7	8
C1	0	8	8
C2	0	8	8
C3	0	8	8
D1	3	8	8
D2	2	6	8
E1	0	8	8
E2	3	8	8
F1	0	7	8
F2	0	8	8
G	0	8	8
<b>Total</b>	<b>P<sub>0</sub> = 9</b>	<b>P<sub>1</sub> = 106</b>	<b>P<sub>2</sub> = 112</b>

**Table 31 - Positive results (before and after confirmation) by the alternative method (ALL the collaborators)**

Collaborators	Contamination level								
	L0			L1			L2		
	PCR result	Confirmation result	Final result	PCR result	Confirmation result	Final result	PCR result	Confirmation result	Final result
A1	1	0	0	7	7	7	8	8	8
A2	1	0	0	8	7	7	8	8	8
B1	7	1	1	8	8	8	8	8	8
B2	7	0	0	8	7	7	7	8	7
C1	0	0	0	8	8	8	8	8	8
C2	0	0	0	8	8	8	8	8	8
C3	0	0	0	8	8	8	8	8	8
D1	0	3	0	8	8	8	8	8	8
D2	0	2	0	6	6	6	8	8	8
E1	1	0	0	8	8	8	8	8	8
E2	1	3	0	7	8	7	8	8	8
F1	0	0	0	7	7	7	8	8	8
F2	6	0	0	8	8	8	8	8	8
G	0	0	0	8	8	8	8	8	8
<b>Total</b>	<b>P<sub>0</sub> = 24</b>	<b>C<sub>0</sub> = 9</b>	<b>CP<sub>0</sub> = 1</b>	<b>P<sub>1</sub> = 107</b>	<b>C<sub>1</sub> = 106</b>	<b>CP<sub>1</sub> = 105</b>	<b>P<sub>2</sub> = 111</b>	<b>C<sub>2</sub> = 112</b>	<b>CP<sub>2</sub> = 111</b>

Four collaborators obtained positive results on unspiked samples for the reference method. Typical colonies were observed on the plates:

- From MKTTn for the collaborators D1 (samples D6, D15, D20), D2 (samples D44, D48)
- From RVS for the collaborator E2 (samples E30, E35, E48)
- From RVS and MKTTn for the collaborator B1 (sample B20).

Some labs used micropipettes to transfer BPW to RVS and MKTTN broths instead of using serological pipettes increasing the risk of cross contamination (e.g. contamination via the pipette shaft).

Seven laboratories obtained positive presumptive results with the BioChek method:

- A1 (sample A1)
- A2 (samples A48, A46)
- B1 (samples B6, B9, B11, B15, B23, B24)
- B2 (samples B27, B30, B35, B39, B40, B44, B48, B38)
- E1 (sample E23)
- E2 (sample E25)
- F2 (samples F30, F35, F39, F40, F44, F48).

It was asked to these Labs to repeat the PCR twice using the same lysate. Labs A1, A2 and F2 discarded the lysates despite the fact that it was clearly stated to keep all the enriched samples, plates and lysates until they were allowed to destroy them.

Lab B1 and B2 tested the lysates a second time as they didn't use the good thermal cycler program, they confirmed their first results. Their extraction buffer was contaminated and as they discarded the enriched BPW, they were not able to perform again the lysis step with a non-contaminated Lysis buffer.

Labs E1 and E2 obtained negative results twice. May be, cross contaminations occurred during the PCR step for the first assay.

According to the AFNOR technical rules, it is possible to include the results from a collaborator with maximum one presumptive or confirmed positive result for unspiked samples (Level 0).

For this study, 6 collaborators have more than one presumptive or confirmed positive result for Level 0. This concerns collaborators B1-B2-D1-D2-E2-F2.

This means that 6 data sets should be removed for interpretation, with 8 data sets remaining available.

**However, the data from collaborators D1 and D2 were kept for the interpretation as contamination was observed only for the MKTTn selective enrichment of the reference method, not for the selective RVS enrichment performed for the samples involved. This proposition was accepted by the AFNOR technical committee.**

**This means that a total of 10 data sets remains available.**

### ***4.3.3 Results of the collaborators retained for interpretation***

The results obtained with the 10 labs kept for interpretation are presented in Table 32 (reference method) and Table 33 (alternative method).

**Table 32 - Positive results by the reference method  
(Without Labs B1, B2, E2, F2)**

Collaborators	Contamination level		
	L0	L1	L2
A1	0	7	8
A2	0	7	8
C1	0	8	8
C2	0	8	8
C3	0	8	8
D1	3	8	8
D2	2	6	8
E1	0	8	8
F1	0	7	8
G	0	8	8
<b>Total</b>	<b>P<sub>0</sub> = 5</b>	<b>P<sub>1</sub> = 75</b>	<b>P<sub>2</sub> = 80</b>

**Table 33 - Positive results (before and after confirmation)  
by the alternative method (Without Labs B1, B2, E2, F2)**

Collaborators	Contamination level								
	L0			L1			L2		
	PCR result	Confirmation Result	Final result	PCR result	Confirmation result	Final result	PCR result	Confirmation result	Final result
A1	1	0	0	7	7	7	8	8	8
A2	1	0	0	8	7	7	8	8	8
C1	0	0	0	8	8	8	8	8	8
C2	0	0	0	8	8	8	8	8	8
C3	0	0	0	8	8	8	8	8	8
D1	0	3	0	8	8	8	8	8	8
D2	0	2	0	6	6	6	8	8	8
E1	1	0	0	8	8	8	8	8	8
F1	0	0	0	7	7	7	8	8	8
G	0	0	0	8	8	8	8	8	8
<b>Total</b>	<b>P<sub>0</sub> = 3</b>	<b>C<sub>0</sub> = 5</b>	<b>CP<sub>0</sub> = 0</b>	<b>P<sub>1</sub> = 76</b>	<b>C<sub>1</sub> = 75</b>	<b>CP<sub>1</sub> = 75</b>	<b>P<sub>2</sub> = 80</b>	<b>C<sub>2</sub> = 80</b>	<b>CP<sub>2</sub> = 80</b>

As the software versions used by the collaborators were different from those used during the method comparison study, the data obtained for the ILS were interpreted again when the version used for the ILS was lower than the version used for the MCS.

The results are summarized in Table 34.

There is no impact of the software version used on the results.

Table 34

Lab	Software used	Comparison done with	Result
A1	SDS 2.04	SDS 2.06	identical results
A2	SDS 2.04	SDS 2.06	identical results
C1	Mxpro 4.10	/	/
C2	Mxpro 4.10	/	/
C3	Mxpro 4.10	/	/
D1	SDS 1.5.1	SDS 2.06	identical results
D2	v 1.5.1	/	/
E1	v 1.5.1	/	/
F1	CFX manager 4.1	/	/
F2	CFX manager 4.1	/	/
G	CFX manager 4.1	/	/
Adria	CFX manager 4.1	/	/

## 4.4 Calculation and interpretation

### 4.4.1 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 35).

Table 35 - Percentage specificity

Specificity for the reference method	$SP_{ref} = \left(1 - \left(\frac{P_0}{N_-}\right)\right) \times 100 \% =$	93.8 %
Specificity for the alternative method	$SP_{alt} = \left(1 - \left(\frac{CP_0}{N_-}\right)\right) \times 100 \% =$	100.0 %

N: number of all L0 tests

$P_0$  = total number of false-positive results obtained with the blank samples before confirmation

$CP_0$  = total number of false-positive results obtained with the blank samples



#### 4.4.2 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 36.

**Table 36 - Summary of the obtained results with the reference method and the alternative method for Level 1**

Level	Response	Reference method positive (R+)	Reference method negative (R-)
1	Alternative method positive (A+)	Positive agreement (A+/R+) <b>PA = 75</b>	Positive deviation (R-/A+) <b>PD = 0</b>
	Alternative method negative (A-)	Negative deviation (A-/R+) <b>ND = 0 (PPND = 0)</b>	Negative agreement (A-/R-) <b>NA = 5 (PPNA = 1)</b>

Based on the data summarized in Table 36, the values of sensitivity of the alternative and reference methods, as well as the relative trueness and false positive ratio for the alternative method taking account the confirmations, are the following (See Table 37).

**Table 37 - Sensitivity, relative trueness and false positive ratio percentages**

		Level 1
Sensitivity for the alternative method:	$SE_{alt} = \frac{(PA+PD)}{(PA+PD+ND)} \times 100\% =$	100.0 %
Sensitivity for the reference method:	$SE_{ref} = \frac{(PA+ND)}{(PA+PD+ND)} \times 100\% =$	100.0 %
Relative trueness	$RT = \frac{(PA+NA)}{N} \times 100\% =$	100.0 %
False positive ratio for the alternative method	$FPR = \frac{FP}{NA} \times 100\% =$	20.0 %

### 4.4.3 Interpretation of data

No positive and no negative deviations were observed.

For a **paired study design**, the difference between (ND – PD) and the addition (ND + PD) are calculated for the level(s) where fractional recovery is obtained ( $L_1$ ). The observed value found for (ND – PD) and (ND + PD) shall not be higher than the AL.

For 10 Labs, the limits are the following:

	Calculated values	AL	Conclusion
ND - PD	0	3	ND – PD < AL
ND + PD	0	4	ND + PD > AL

**The EN ISO 16140-2:2016 requirements are fulfilled as (ND - PD) and (ND + PD) are below the AL.**

### 4.4.4 Evaluation of the LOD<sub>50%</sub>, LOD<sub>95%</sub> and RLOD between laboratories

The LOD<sub>50%</sub>, the LOD<sub>95%</sub> and the RLOD was calculated using the EN ISO 16140-2:2016 Excel spreadsheet available at <http://standards.iso.org/iso/16140> - RLOD (clause 5-1-4-2 Calculation and interpretation of RLOD) version 06.07.2015. The results are used only for information (see Table 38).

**Table 38 - LOD<sub>50%</sub>, LOD<sub>95%</sub> and RLOD**

Method	LOD 50%	LOD 95%	RLOD
Reference	0.48 [0.33; 0.69]	2.06 [1.42; 2.97]	1.00 [0.65; 1.53]
Alternative	0.48 [0.33; 0.69]	2.06 [1.42; 2.97]	

## 5 CONCLUSION

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The **method comparison study conclusions** are:

- ☒ The method comparison study scheme corresponds to a paired study design as the alternative and reference methods have a common enrichment procedure.
- ☒ In the sensitivity study, six categories were tested: 3 food categories, feed products, production environmental samples, and primary production samples. The protocol of the alternative method shows 2 positive deviations (PD) and 6, 7 or 8 negative deviations (ND) for all the categories depending on the tested thermocyclers. The  $((ND + PPND) - PD)$  and  $(ND + PPND + PD)$  meet the acceptability limits (AL) whatever the categories, and as well for the 6 tested categories for the four thermocyclers (Bio-Rad CFX96, Applied Biosystems 7500, Agilent MX3005P and Roche LightCycler 480II).
- ☒ The Relative Levels of Detection (RLOD) are all below the AL fixed at 1.5 for the unpaired data study whatever the matrix/strain pairs and the thermocycler tested.
- ☒ The inclusivity and exclusivity testing gave the expected results for the 100 target strains and the 30 non-target strains using the Bio-Rad CFX96. For one strain (*Escherichia coli* 19), positive PCR results were observed with the 3 other thermocyclers without any explanation.
- ☒ The negative results are available in 1 day for food, feed and environmental samples, and with up to 2 days for primary production samples using the alternative method, the positive results are available in 4 or 5 days.
- ☒ The alternative method fulfils all the EN ISO 16140-2:2016 and AFNOR technical rules (revision 6).

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

- ☒ A lot of cross contamination occurred during this inter-laboratory study either with the reference method or the alternative method. This was probably due to the use of micropipettes to transfer the enriched BPW into RVS and MKTTn broths.

- The interpretation was done using two collaborators (D1 and D2) with more than one positive result on unspiked samples as only the reference method (MKTTn way) was concerned by these cross-contaminations. Bad laboratories practices were probably responsible for the unexpected results observed during the inter-laboratory study.
  
- The calculated values for (ND – PD) and (ND + PD) meet the acceptability limits defined in the EN ISO 16140-2:2016 for a paired study design.

Quimper, 02 March 2023

Maryse RANNOU

Project Manager

Validation of Alternative methods



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

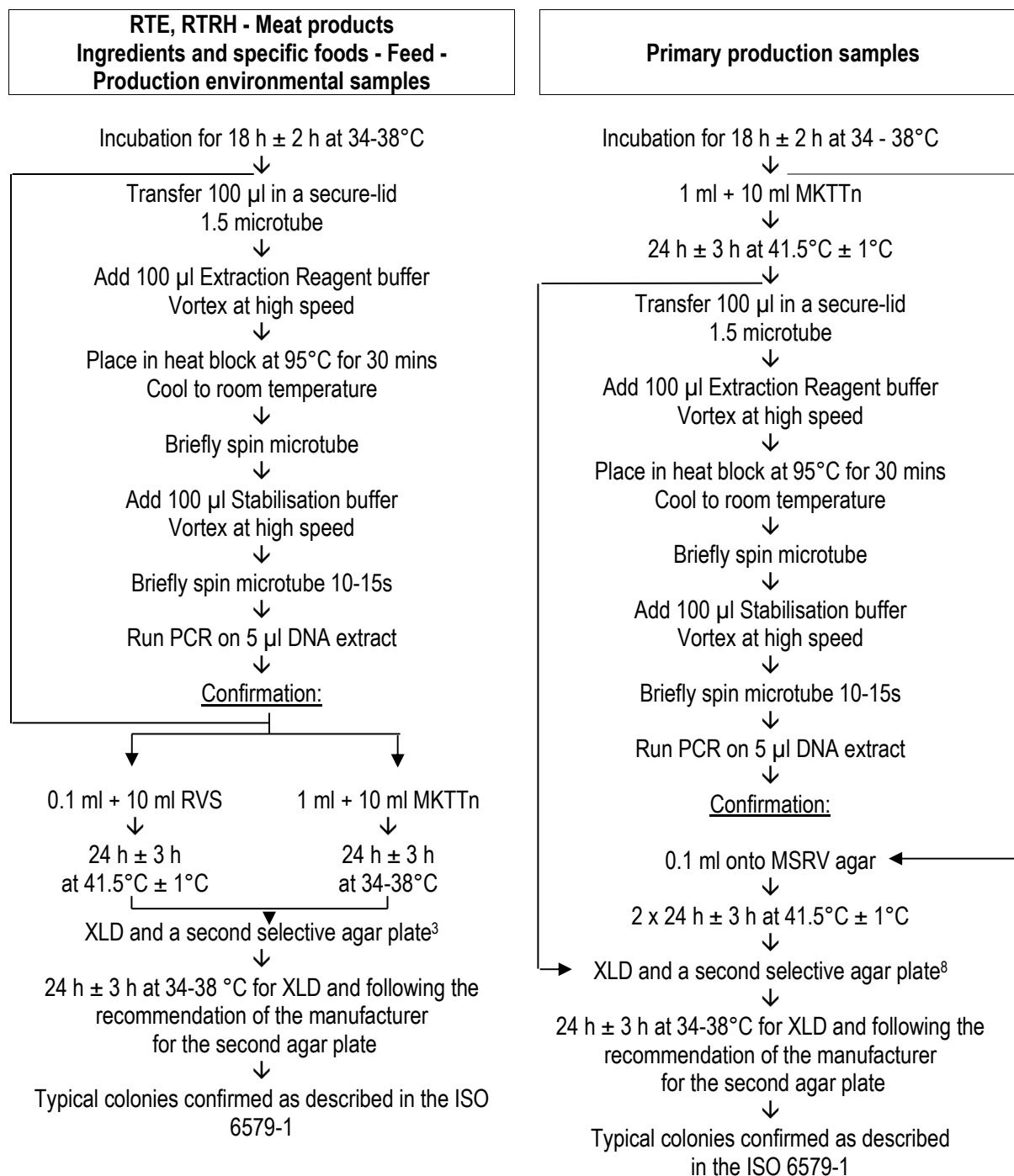
## Appendix 1 – Flow diagram of the alternative method: BioChek *Salmonella* Species DNA Test Kit

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

1 swab + 10 ml BPW<sup>2</sup>

1 sponge + 100 ml BPW<sup>2</sup>

1 wipe + 225 ml BPW<sup>2</sup>



<sup>2</sup> For sampling after cleaning process pre-moisten

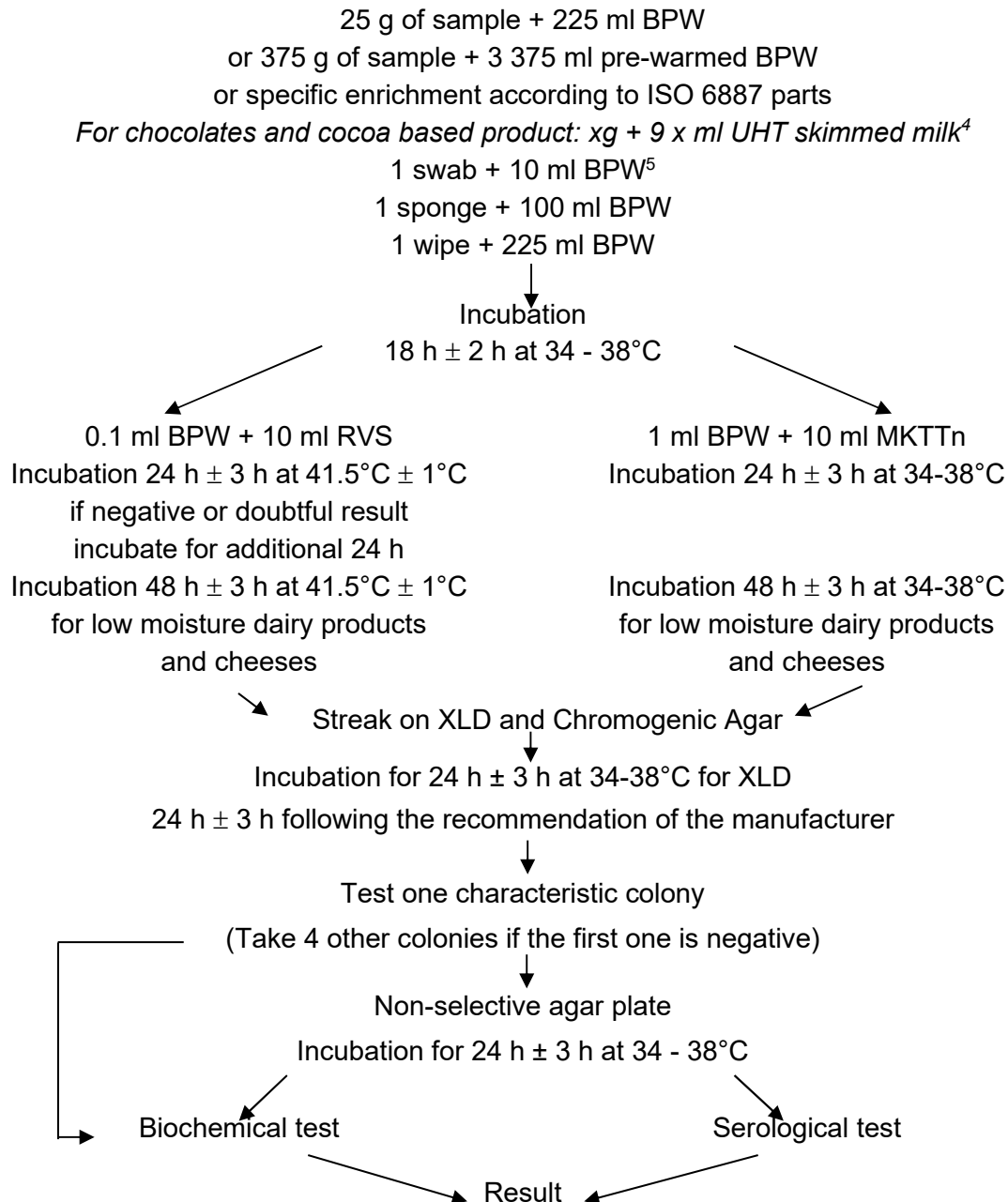
- 1 swab + 1 ml broth universal neutralizing (+ 9 ml BPW)
- 1 sponge + 10 ml broth universal neutralizing (+ 90 ml BPW)
- 1 wipe + BPW + 10 % neutralizing agent (+ 225 ml BPW)

<sup>3</sup> ASAP was used for the validation study

## Appendix 2 – Flow diagram of the reference method

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

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

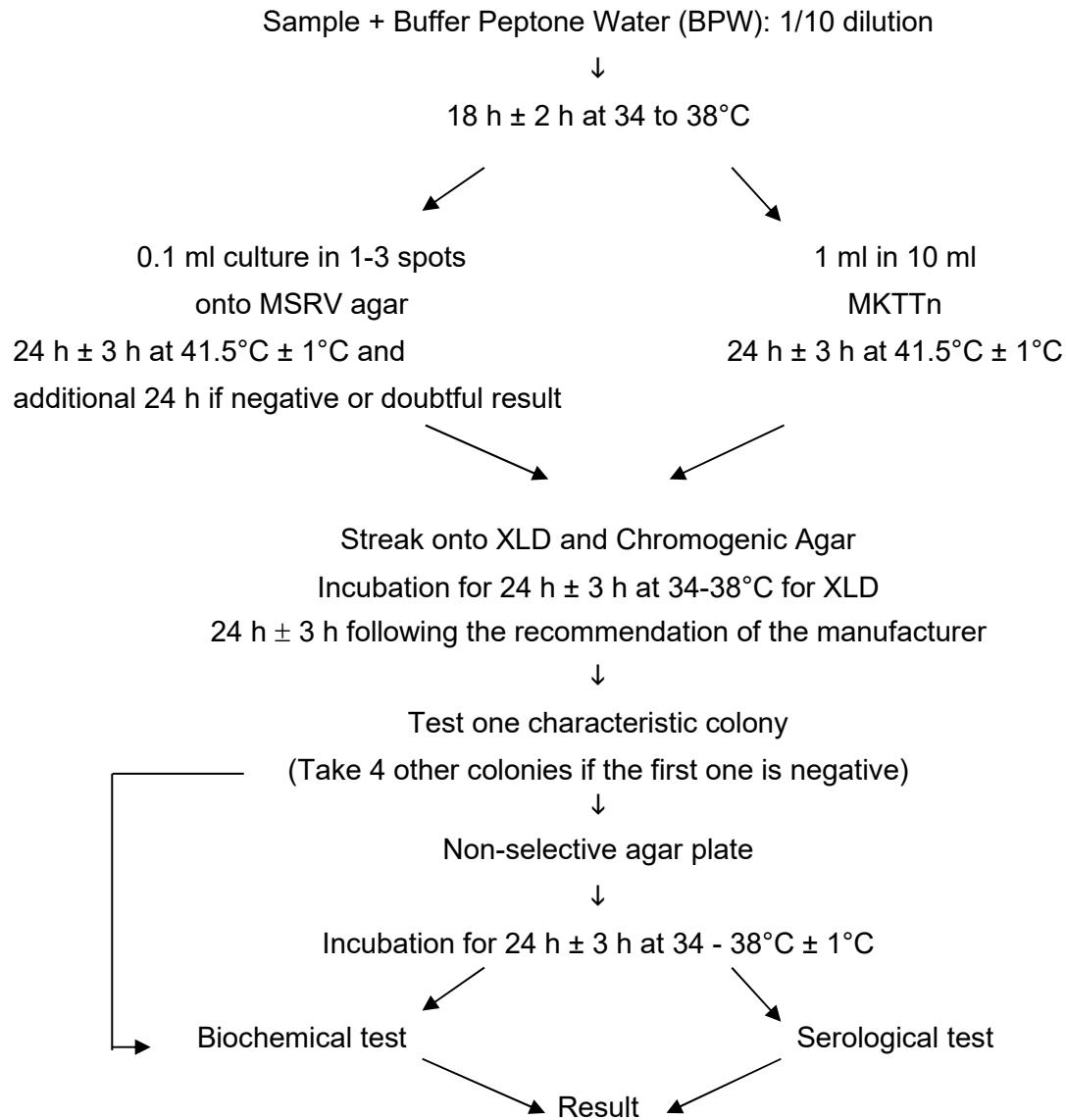


<sup>4</sup> For chocolates products containing > 20 % fat, unless the products already contain sufficient emulsifier, add Tween 80  
For products with high background microflora add Brilliant green (0.018g/L)


<sup>5</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 – Summary of all the PCR results obtained for the different parts of the study using the 4 thermocyclers

 primary production samples

\*: DNA extract diluted (1/10)

i : invalid result (inhibition)

SENSITIVITY																		
Bio-Rad CFX96				ABS 7500					ARIA Mx3005p					Roche LightCycler 480II				
Sample number	Cq FAM	Cq HEX	Result	Sample number	N°	Cq FAM	Cq HEX	Result	Sample number	N°	Cq FAM	Cq HEX	Result	Sample number	N°	Cq FAM	Cq HEX	Result
203	36,90	29,66	+	203	312	37,13	29,33	+	203	255	34,70	29,47	+	203	392	35.00	29.10	+
204	26,78	29,20	+	204	106	25,50	29,16	+	204	419	26,80	29,28	+	204	251	26.31	28.76	+
205	N/A	29,54	-	205	396	N/A	30,66	-	205	225	N/A	29,79	-	205	224	N/A	29.31	-
206	22,22	29,36	+	206	191	22,72	30,48	+	206	520	21,43	29,27	+	206	125	21.56	29.30	+
207	N/A	29,33	-	207	238	N/A	29,62	-	207	529	N/A	29,28	-	207	143	N/A	29.01	-
208	N/A	29,56	-	208	136	N/A	29,73	-	208	303	N/A	29,42	-	208	287	N/A	29.15	-
209	N/A	29,81	-	209	30	N/A	29,36	-	209	432	N/A	29,57	-	209	208	N/A	29.18	-
210	N/A	30,52	-	210	324	N/A	32,01	-	210	320	N/A	30,61	-	210	494	N/A	30.37	-
211	31,65	29,64	+	211	11	29,48	29,11	+	211	40	29,56	30,00	+	211	481	29.84	29.12	+
212	N/A	29,88	-	212	403	N/A	30,97	-	212	172	N/A	31,32	-	212	144	N/A	30.55	-
213	N/A	29,42	-	213	519	N/A	29,68	-	213	62	N/A	29,80	-	213	432	N/A	29.02	-
214	28,14	29,09	+	214	531	24,88	29,38	+	214	389	25,82	29,82	+	214	446	25.23	28.85	+
215	N/A	29,34	-	215	102	N/A	29,76	-	215	7	N/A	30,03	-	215	15	N/A	29.11	-
216	N/A	29,86	-	216	439	N/A	30,17	-	216	247	N/A	29,64	-	216	358	N/A	29.56	-
217	30,38	29,78	+	217	184	28,15	31,32	+	217	119	28,25	31,10	+	217	4	28.64	30.67	+
218	33,82	29,46	+	218	142	33,73	29,42	+	218	94	32,48	29,73	+	218	8	35.00	28.93	+
219	N/A	29,42	-	219	279	N/A	29,11	-	219	32	N/A	29,80	-	219	296	N/A	29.33	-
220	28,96	29,36	+	220	211	29,55	30,55	+	220	135	28,27	29,67	+	220	237	28.52	29.00	+
221	N/A	29,64	-	221	108	N/A	32,29	-	221	195	34,41	31,07	+	221	239	N/A	31.91	-
222	N/A	29,27	-	222	222	N/A	29,81	-	222	321	N/A	29,39	-	222	198	N/A	29.31	-
223	N/A	29,69	-	223	160	N/A	29,35	-	223	184	N/A	29,71	-	223	386	35.00	29.26	+
224	N/A	29,67	-	224	304	N/A	30,58	-	224	510	N/A	29,18	-	224	160	N/A	29.18	-
225	32,69	29,79	+	225	391	29,93	29,76	+	225	252	31,06	29,59	+	225	527	29.81	29.50	+
226	N/A	29,27	-	226	394	N/A	29,69	-	226	194	30,53	29,24	+	226	134	N/A	29.17	-
227	N/A	29,35	-	227	54	N/A	29,03	-	227	81	N/A	29,83	-	227	328	N/A	29.43	-
228	32,14	29,37	+	228	276	29,66	29,53	+	228	267	29,96	29,79	+	228	301	29.75	29.05	+
353	N/A	29,39	-	353	176	N/A	29,49	-	353	431	N/A	29,39	-	353	188	N/A	29.13	-
354	32,25	29,43	+	354	392	31,50	29,21	+	354	408	30,43	29,53	+	354	23	31.39	29.07	+
355	N/A	29,53	-	355	318	N/A	33,17	-	355	400	36,34	29,58	+	355	115	N/A	29.18	-
356	25,48	29,34	+	356	156	23,74	28,93	+	356	168	24,31	29,49	+	356	276	23.78	28.96	+
357	N/A	29,59	-	357	71	N/A	29,51	-	357	182	N/A	29,78	-	357	61	N/A	29.27	-
358	N/A	29,47	-	358	513	N/A	29,23	-	358	75	N/A	29,92	-	358	164	35.00	29.53	+
359	28,01	29,39	+	359	150	27,25	29,57	+	359	206	29,95	29,88	+	359	413	27.72	29.11	+
360	25,11	29,32	+	360	404	24,15	29,15	+	360	426	23,75	29,28	+	360	213	24.48	28.88	+
361	30,96	29,43	+	361	502	30,53	29,77	+	361	505	30,20	29,17	+	361	260	30.05	29.15	+
362	N/A	29,48	-	362	498	N/A	29,62	-	362	117	N/A	29,84	-	362	100	N/A	29.17	-
363	N/A	29,98	-	363	245	N/A	30,99	-	363	319	N/A	29,67	-	363	463	N/A	29.49	-
364	N/A	29,40	-	364	240	N/A	29,45	-	364	530	N/A	29,43	-	364	428	N/A	29.09	-
365	29,05	29,58	+	365	78	26,37	29,29	+	365	326	28,92	29,46	+	365	102	27.05	29.14	+
366	34,98	30,82	+	366	526	31,75	29,69	+	366	373	31,95	29,67	+	366	478	31.80	29.25	+
367	26,73	29,66	+	367	380	23,70	28,95	+	367	17	24,23	30,25	+	367	106	23.85	29.00	+
368	N/A	29,70	-	368	473	N/A	29,29	-	368	537	N/A	29,52	-	368	388	N/A	29.46	-
369	N/A	29,36	-	369	453	N/A	30,68	-	369	95	N/A	29,73	-	369	57	N/A	29.16	-
370	N/A	29,66	-	370	308	N/A	29,24	-	370	410	N/A	29,39	-	370	338	N/A	29.20	-
371	29,72	29,18	+	371	451	27,41	29,87	+	371	328	27,09	29,59	+	371	495	26.70	28.86	+



SENSITIVITY																		
Bio-Rad CFX96				ABS 7500					ARIA Mx3005p					Roche LightCycler 480II				
Sample number	Cq FAM	Cq HEX	Result	Sample number	N°	Cq FAM	Cq HEX	Result	Sample number	N°	Cq FAM	Cq HEX	Result	Sample number	N°	Cq FAM	Cq HEX	Result
372	30,37	29,73	+	372	497	27,24	29,03	+	372	264	27,28	29,21	+	372	416	26.92	29.22	+
373	N/A	29,37	-	373	103	N/A	29,50	-	373	343	N/A	29,35	-	373	496	N/A	29,09	-
374	26,28	29,61	+	374	433	24,53	29,00	+	374	295	24,29	29,15	+	374	476	24.78	28.81	+
375	N/A	29,71	-	375	212	N/A	30,17	-	375	123	N/A	29,72	-	375	175	N/A	29,34	-
376	N/A	34,14	-	376	121	N/A N/A*	N/A 30,21*	i _*	376	278	N/A	29,44	-	376	354	N/A	29,25	-
377	28,14	29,68	+	377	40	25,16	28,69	+	377	358	25,94	29,46	+	377	48	26.45	28.96	+
378	N/A	29,32	-	378	235	N/A	30,92	-	378	422	N/A	29,64	-	378	385	N/A	29,04	-
379	N/A	30,33	-	379	381	N/A	29,57	-	379	461	N/A	29,46	-	379	10	N/A	29,22	-
380	N/A	29,40	-	380	153	N/A	29,57	-	380	475	N/A	29,63	-	380	407	N/A	29,53	-
575	N/A	29,43	-	575	120	N/A	29,49	-	575	323	N/A	29,40	-	575	62	N/A	29,17	-
576	N/A	29,49	-	576	507	N/A	29,22	-	576	344	N/A	29,46	-	576	382	N/A	29,43	-
577	N/A	29,44	-	577	35	N/A	29,48	-	577	130	N/A	29,94	-	577	222	N/A	29,23	-
578	N/A	29,39	-	578	107	N/A	29,39	-	578	435	N/A	29,65	-	578	241	N/A	29,33	-
579	N/A	29,64	-	579	424	N/A	30,26	-	579	67	N/A	30,47	-	579	393	N/A	29,33	-
580	N/A	29,57	-	580	476	N/A	29,33	-	580	54	N/A	29,87	-	580	179	N/A	29,21	-
581	N/A	29,52	-	581	60	N/A	29,32	-	581	22	N/A	30,25	-	581	230	N/A	29,15	-
582	N/A	29,42	-	582	62	N/A	29,29	-	582	111	N/A	29,69	-	582	298	N/A	29,07	-
583	N/A	29,42	-	583	364	N/A	29,17	-	583	217	N/A	29,64	-	583	419	N/A	29,49	-
584	N/A	29,57	-	584	482	N/A	29,41	-	584	20	N/A	30,00	-	584	32	N/A	29,33	-
585	N/A	29,35	-	585	217	N/A N/A*	N/A 29,59*	i _*	585	84	N/A	29,74	-	585	435	N/A	29,24	-
586	N/A	29,39	-	586	65	N/A	29,00	-	586	447	N/A	29,25	-	586	402	N/A	29,26	-
587	N/A	29,18	-	587	267	N/A	29,63	-	587	152	N/A	29,77	-	587	374	N/A	29,29	-
588	N/A	29,61	-	588	319	N/A	31,73	-	588	311	N/A	29,59	-	588	191	N/A	29,17	-
589	N/A	29,84	-	589	314	N/A	30,36	-	589	215	N/A	30,45	-	589	109	N/A	29,23	-
590	N/A	29,90	-	590	294	N/A	29,64	-	590	474	N/A	29,55	-	590	324	N/A	29,30	-
787	16,67	29,32	+	787	357	18,88	30,33	+	787	253	17,81	29,53	+	787	37	18.10	29.10	+
788	17,32	29,30	+	788	511	18,84	28,48	+	788	463	19,69	29,75	+	788	423	18.83	29.16	+
789	13,65	29,68	+	789	309	18,07	28,07	+	789	162	19,03	30,74	+	789	449	17.73	29.40	+
790	18,63	29,46	+	790	104	19,40	28,75	+	790	107	19,96	29,58	+	790	346	18.87	28.97	+
791	N/A	29,76	-	791	162	N/A	29,66	-	791	281	N/A	29,64	-	791	77	N/A	29,09	-
792	19,34	29,61	+	792	84	19,83	28,45	+	792	59	21,70	29,70	+	792	116	20.01	29.25	+
793	18,43	29,42	+	793	441	19,66	28,72	+	793	398	19,91	29,53	+	793	81	19.01	29.05	+
944	N/A	37,54	-	944	556	N/A	32,63	-	944	594	N/A	35,41	-	944	665	N/A	34,08	-
945	N/A	34,18	-	945	626	36,49	35,79	+	945	659	N/A	35,22	-	945	609	N/A	30,90	-
946	N/A	35,01	-	946	613	N/A	33,53	-	946	578	N/A	32,07	-	946	610	N/A	30,98	-
947	N/A	33,70	-	947	569	N/A	33,16	-	947	690	N/A	34,26	-	947	711	N/A	30,66	-
948	N/A	35,53	-	948	640	N/A	32,98	-	948	547	N/A	33,23	-	948	558	N/A	31,47	-
949	N/A	33,63	-	949	622	N/A	32,52	-	949	629	N/A	32,49	-	949	564	N/A	30,99	-
950	N/A	33,53	-	950	684	N/A	35,20	-	950	684	N/A	32,93	-	950	698	N/A	30,87	-
951	N/A	36,46	-	951	582	N/A	33,52	-	951	554	N/A	33,88	-	951	585	N/A	32,45	-
952	N/A	34,77	-	952	656	N/A	32,10	-	952	602	N/A	31,75	-	952	544	N/A	30,69	-
953	N/A	37,14	-	953	549	N/A	37,77	-	953	560	N/A	36,86	-	953	646	N/A	35,00	-
954	N/A	36,46	-	954	612	37,31	32,60	+	954	640	N/A	35,63	-	954	716	N/A	30,91	-
955	N/A	33,86	-	955	593	N/A	32,10	-	955	543	N/A	31,40	-	955	575	N/A	31,27	-
956	N/A	34,68	-	956	620	N/A	31,33	-	956	593	N/A	32,28	-	956	619	N/A	30,76	-
957	N/A	35,10	-	957	635	N/A	32,35	-	957	607	N/A	32,49	-	957	643	N/A	33,30	-
958	N/A	35,62	-	958	618	N/A	34,03	-	958	626	N/A	32,38	-	958	565	N/A	31,03	-
993	18,19	29,30	+	993	720	17,64	28,77	+	993	571	17,76	29,16	+	993	656	15.97	29.27	+

SENSITIVITY																		
Bio-Rad CFX96				ABS 7500					ARIA Mx3005p					Roche LightCycler 480II				
Sample number	Cq FAM	Cq HEX	Result	Sample number	N°	Cq FAM	Cq HEX	Result	Sample number	N°	Cq FAM	Cq HEX	Result	Sample number	N°	Cq FAM	Cq HEX	Result
994	19,06	29,32	+	994	717	18,42	28,65	+	994	656	18,43	29,46	+	994	654	19.16	29.22	+
995	N/A	30,02	-	995	630	N/A	29,39	-	995	678	N/A	29,94	-	995	662	N/A	29.20	-
996	18,48	29,36	+	996	690	17,68	28,49	+	996	670	18,04	29,49	+	996	682	19.71	29.15	+
997	N/A	29,56	-	997	601	N/A	29,53	-	997	631	N/A	29,41	-	997	614	N/A	29.18	-
998	18,61	29,34	+	998	623	17,96	28,56	+	998	654	18,31	29,85	+	998	697	17.09	29.02	+
999	35,40	29,65	+	999	648	31,26	29,12	+	999	584	33,73	29,25	+	999	718	33.46	29.20	+
1000	28,24	29,67	+	1000	547	26,09	28,92	+	1000	658	27,06	29,30	+	1000	660	29.06	29.16	+
1001	22,14	29,37	+	1001	355	21,48	30,73	+	1001	428	19,67	29,26	+	1001	541	21.76	28.89	+
1002	24,16	29,19	+	1002	109	23,81	28,73	+	1002	105	23,45	29,87	+	1002	41	24.31	29.10	+
1005	N/A	30,36	-	1005	216	N/A 34,75*	N/A 29,71*	i +*	1005	141	N/A	29,80	-	1005	439	N/A	29.47	-
1006	20,03	29,48	+	1006	228	21,19	30,25	+	1006	492	19,77	29,07	+	1006	47	19.91	29.01	+
1007	18,51	29,56	+	1007	264	19,66	30,36	+	1007	317	17,86	29,33	+	1007	533	18.02	29.05	+
1008	18,68	29,25	+	1008	34	18,44	28,30	+	1008	185	18,54	29,58	+	1008	526	18.26	29.08	+
1009	18,13	29,21	+	1009	438	18,72	30,30	+	1009	158	17,49	29,51	+	1009	165	17.55	29.29	+
1010	20,19	29,16	+	1010	46	18,84	28,47	+	1010	214	20,29	30,10	+	1010	11	19.92	28.86	+
1011	19,13	29,44	+	1011	170	19,24	28,99	+	1011	90	16,76	30,33	+	1011	367	18.10	28.97	+
1012	22,16	29,96	+	1012	124	20,13	31,54	+	1012	415	21,34	29,90	+	1012	528	20.74	31.17	+
1013	24,44	29,38	+	1013	112	25,52	29,31	+	1013	164	24,29	29,54	+	1013	415	23.56	28.88	+
1014	27,34	29,68	+	1014	313	25,27	29,52	+	1014	378	25,16	29,79	+	1014	17	25.93	30.30	+
1217	N/A	29,68	-	1217	426	N/A	29,77	-	1217	38	N/A	30,11	-	1217	294	N/A	29.05	-
1218	25,64	29,32	+	1218	393	24,13	29,03	+	1218	274	32,36	29,54	+	1218	372	26.25	28.83	+
1219	19,77	29,38	+	1219	126	18,85	28,73	+	1219	9	19,75	30,01	+	1219	38	19.55	28.80	+
1220	18,54	29,65	+	1220	82	18,16	29,07	+	1220	357	18,15	29,32	+	1220	58	18.59	28.97	+
1221	N/A/35,43/N/A	30,22/29,45/29,29	-/+/-	1221	521	N/A	29,68	-	1221	375	N/A	29,56	-	1221	269	N/A	29.08	-
1222	20,13	29,55	+	1222	18	20,52	29,52	+	1222	439	20,22	29,78	+	1222	442	20.08	30.32	+
1223	20,87	29,40	+	1223	350	22,36	30,69	+	1223	442	21,05	30,02	+	1223	355	22.07	32.05	+
1224	24,25	29,36	+	1224	427	26,02	31,94	+	1224	101	24,89	31,52	+	1224	101	24.59	31.52	+
1225	27,21	29,73	+	1225	265	27,33	32,49	+	1225	277	27,21	30,56	+	1225	194	25.69	30.84	+
1226	N/A	29,95	-	1226	148	N/A	29,97	-	1226	6	N/A	30,13	-	1226	35	N/A	29.32	-
1227	N/A N/A*	38,62 30,04*	i -*	1227	722	N/A	36,31	-	1227	680	N/A N/A*	38,11 29,58*	i -*	1227	583	N/A	32.93	-
1228	N/A	33,26	-	1228	611	34,73	31,49	+	1228	688	N/A	33,08	-	1228	694	N/A	30.67	-
1229	N/A	36,35	-	1229	652	N/A	36,15	-	1229	553	N/A	32,97	-	1229	561	N/A	31.16	-
1230	N/A	34,71	-	1230	708	N/A	35,63	-	1230	583	N/A	34,29	-	1230	692	N/A	31.80	-
1231	N/A	34,73	-	1231	567	34,76	32,97	+	1231	648	N/A	36,94	-	1231	622	N/A	31.11	-
1232	N/A	34,17	-	1232	568	N/A	33,94	-	1232	727	N/A	35,87	-	1232	672	N/A	31.66	-
1278	N/A	32,98	-	1278	631	N/A	32,26	-	1278	655	N/A	32,64	-	1278	554	N/A	30.78	-
1279	N/A	36,27	-	1279	672	N/A	32,17	-	1279	663	N/A	35,25	-	1279	724	N/A	31.10	-
1280	N/A	33,54	-	1280	552	36,31	33,81	+	1280	570	N/A	32,15	-	1280	626	N/A	32.13	-
1281	17,89	N/A	+	1281	599	18,48	N/A	+	1281	627	18,25	N/A	+	1281	701	18.55	35.00	+
1282	N/A	35,54	-	1282	633	N/A	37,52	-	1282	662	N/A	33,34	-	1282	655	N/A	32.24	-
1283	N/A	33,20	-	1283	570	N/A	31,99	-	1283	552	N/A	31,53	-	1283	628	N/A	30.91	-
1284	18,37	N/A	+	1284	644	18,53	N/A	+	1284	676	18,65	N/A	+	1284	675	18.78	35.00	+
1285	14,95	N/A	+	1285	572	17,55	N/A	+	1285	604	16,89	N/A	+	1285	721	17.81	N/A	+
1286	35,91	35,07	+	1286	676	36,33	32,60	+	1286	611	37,70	33,00	+	1286	611	35.00	29.60	+
1287	17,88	N/A	+	1287	573	17,95	N/A	+	1287	657	17,84	N/A	+	1287	647	18.32	N/A	+
1288	17,90	N/A	+	1288	662	18,15	N/A	+	1288	710	18,10	N/A	+	1288	668	18.21	N/A	+
1289	16,89	N/A	+	1289	546	17,49	N/A	+	1289	545	17,54	N/A	+	1289	567	17.67	35.00	+
1290	18,10	N/A	+	1290	580	18,48	35,11	+	1290	675	18,61	N/A	+	1290	593	18.69	N/A	+

SENSITIVITY																		
Bio-Rad CFX96				ABS 7500					ARIA Mx3005p					Roche LightCycler 480II				
Sample number	Cq FAM	Cq HEX	Result	Sample number	N°	Cq FAM	Cq HEX	Result	Sample number	N°	Cq FAM	Cq HEX	Result	Sample number	N°	Cq FAM	Cq HEX	Result
1291	N/A	37,31	-	1291	705	N/A	32,63	-	1291	671	N/A	35,64	-	1291	570	N/A	31.22	-
1292	18,53	N/A	+	1292	660	18,87	N/A	+	1292	720	18,76	N/A	+	1292	642	19.01	N/A	+
1408	N/A	37,84	-	1408	590	34,06	34,55	+	1408	669	N/A	37,22	-	1408	562	N/A	34.30	-
1409	N/A	35,29	-	1409	610	N/A	37,35	-	1409	601	N/A	32,64	-	1409	717	N/A	30.99	-
1410	N/A	33,70	-	1410	596	N/A	31,54	-	1410	621	N/A	32,04	-	1410	553	N/A	30.25	-
1411	N/A	33,75	-	1411	638	N/A	33,41	-	1411	725	N/A	31,76	-	1411	653	N/A N/A*	N/A 29.22*	i _***
1412	N/A	36,45	-	1412	668	N/A	34,77	-	1412	692	N/A	34,96	-	1412	623	N/A	31.17	-
1413	N/A	34,43	-	1413	701	N/A	32,87	-	1413	557	N/A	33,23	-	1413	545	N/A	31.54	-
1414	N/A	33,59	-	1414	555	34,36	32,40	+	1414	606	36,04	36,21	+	1414	577	N/A	30.11	-
1415	N/A	35,80	-	1415	654	N/A	33,52	-	1415	623	N/A	32,37	-	1415	679	N/A	31.48	-
1416	N/A	36,17	-	1416	607	N/A	33,68	-	1416	647	N/A	36,36	-	1416	695	N/A	32.85	-
1560	N/A N/A*	N/A 29,70*	i _*	1560	649	N/A	36,56	-	1560	562	N/A	36,68	-	1560	552	N/A	32.70	-
1561	N/A	36,08	-	1561	604	N/A	31,98	-	1561	563	N/A	32,97	-	1561	669	N/A	32.00	-
1562	N/A	37,06	-	1562	696	N/A	35,21	-	1562	717	N/A	35,37	-	1562	615	N/A	31.49	-
1563	N/A	36,57	-	1563	711	N/A	35,70	-	1563	619	N/A	33,73	-	1563	725	N/A	31.10	-
1564	N/A	34,04	-	1564	647	N/A	33,63	-	1564	651	N/A	34,22	-	1564	547	N/A	31.00	-
1565	N/A	34,58	-	1565	669	N/A	33,59	-	1565	706	N/A	32,46	-	1565	632	N/A	30.98	-
1647	18,82	N/A	+	1647	608	19,08	N/A	+	1647	666	18,86	N/A	+	1647	634	19.15	N/A	+
1648	17,58	N/A	+	1648	543	17,85	N/A	+	1648	713	17,59	N/A	+	1648	685	18.12	35.00	+
1649	17,38	N/A	+	1649	664	17,34	N/A	+	1649	617	17,17	N/A	+	1649	708	17.80	35.00	+
1650	17,21	N/A	+	1650	542	17,55	N/A	+	1650	549	17,19	N/A	+	1650	588	17.78	N/A	+
1651	N/A	33,34	-	1651	560	32,59	32,79	+	1651	580	N/A	32,11	-	1651	635	N/A	31.80	-
1652	18,25	38,01	+	1652	602	18,84	36,84	+	1652	620	18,04	39,76	+	1652	616	18.86	35.00	+
1653	17,18	N/A	+	1653	677	17,52	N/A	+	1653	555	17,62	N/A	+	1653	674	17.65	N/A	+
1654	N/A/N/A/N/A	35,23/37,05/34,78	-/-/-	1654	678	N/A	32,54	-	1654	589	N/A	31,67	-	1654	603	N/A	30.91	-
1814	N/A	30,51	-	1814	110	N/A	30,61	-	1814	259	N/A	30,89	-	1814	257	N/A	30.04	-
1815	N/A	30,44	-	1815	271	N/A	30,55	-	1815	322	N/A	29,75	-	1815	293	N/A	30.33	-
1816	N/A	34,48	-	1816	325	N/A	34,30	-	1816	334	N/A	32,73	-	1816	532	N/A	34.00	-
1817	N/A	29,53	-	1817	251	N/A	29,69	-	1817	471	N/A	29,36	-	1817	75	N/A	29.56	-
1818	N/A	29,37	-	1818	155	N/A	29,35	-	1818	265	N/A	29,76	-	1818	31	N/A	29.13	-
1819	N/A	29,86	-	1819	13	N/A	29,49	-	1819	290	N/A	29,78	-	1819	314	N/A	29.49	-
1820	N/A	29,28	-	1820	484	N/A	29,99	-	1820	273	N/A	30,10	-	1820	195	N/A	29.36	-
1821	37,68/N/A/N/A	29,31/29,43/29,39	+/-/-	1821	6	N/A	28,96	-	1821	211	N/A	29,67	-	1821	455	N/A	29.32	-
1822	N/A	29,49	-	1822	25	N/A	29,26	-	1822	425	N/A	29,47	-	1822	103	N/A	29.00	-
1823	N/A	29,44	-	1823	173	N/A	29,69	-	1823	1	N/A	29,79	-	1823	453	N/A	29.23	-
1824	N/A	29,92	-	1824	230	N/A	30,00	-	1824	234	N/A	29,69	-	1824	171	N/A	29.49	-
1825	N/A	29,25	-	1825	329	N/A	28,98	-	1825	495	N/A	29,30	-	1825	84	N/A	29.09	-
1826	N/A	29,34	-	1826	455	N/A	29,51	-	1826	159	N/A	29,62	-	1826	290	N/A	29.36	-
1827	N/A	29,69	-	1827	278	N/A	30,97	-	1827	414	N/A	30,14	-	1827	376	N/A	29.76	-
1833	N/A	30,17	-	1833	340	N/A	36,80	-	1833	207	N/A	30,24	-	1833	363	N/A	30.61	-
1834	N/A	29,55	-	1834	359	N/A	29,97	-	1834	340	N/A	29,72	-	1834	88	N/A	29.30	-
1835	N/A	29,43	-	1835	41	N/A	29,80	-	1835	103	N/A	29,92	-	1835	14	N/A	29.29	-
1836	N/A	29,49	-	1836	81	N/A	30,01	-	1836	24	28,05	29,99	+	1836	285	N/A	29.54	-
1837	N/A	29,27	-	1837	410	N/A	30,12	-	1837	486	N/A	29,48	-	1837	250	N/A	29.46	-
1858	19,33	31,20	+	1858	481	18,13	29,57	+	1858	139	18,03	30,03	+	1858	291	18.09	29.74	+
1859	18,32	30,25	+	1859	401	17,18	26,15	+	1859	462	17,21	29,89	+	1859	359	17.48	29.69	+
1860	19,16	32,85	+	1860	327	19,41	31,85	+	1860	468	17,09	29,51	+	1860	361	17.99	29.77	+
1861	18,19	31,63	+	1861	75	17,22	29,12	+	1861	46	17,40	30,63	+	1861	518	17.33	29.63	+

SENSITIVITY																		
Bio-Rad CFX96				ABS 7500					ARIA Mx3005p					Roche LightCycler 480II				
Sample number	Cq FAM	Cq HEX	Result	Sample number	N°	Cq FAM	Cq HEX	Result	Sample number	N°	Cq FAM	Cq HEX	Result	Sample number	N°	Cq FAM	Cq HEX	Result
2032	N/A	29,52	-	2032	704	N/A	29,51	-	2032	632	N/A	29,85	-	2032	548	N/A	29,27	-
2033	N/A	29,96	-	2033	619	N/A	31,15	-	2033	569	N/A	31,98	-	2033	579	N/A	31,64	-
2034	N/A	30,10	-	2034	576	N/A	30,28	-	2034	597	N/A	30,39	-	2034	667	N/A	31,03	-
2035	N/A	29,83	-	2035	584	N/A	30,17	-	2035	600	N/A	30,81	-	2035	727	N/A	30,74	-
2036	N/A	30,26	-	2036	661	N/A	30,87	-	2036	588	N/A	31,17	-	2036	640	N/A	29,59	-
2037	N/A	29,97	-	2037	663	N/A	29,75	-	2037	660	N/A	29,62	-	2037	638	N/A	29,35	-
2038	N/A	30,09	-	2038	605	N/A	29,44	-	2038	637	N/A	29,51	-	2038	661	N/A	29,33	-
2039	N/A	32,47	-	2039	617	N/A	32,20	-	2039	665	N/A	32,87	-	2039	709	N/A	33,44	-
2040	36,92	32,26	+	2040	587	35,89	30,55	+	2040	635	35,62	32,16	+	2040	589	35,00	31,99	+
2041	N/A	30,02	-	2041	641	N/A	29,59	-	2041	714	N/A	29,98	-	2041	572	N/A	29,84	-
2052	N/A	30,50	-	2052	386	N/A	31,49	-	2052	145	N/A	30,48	-	2052	66	N/A	29,90	-
2053	35,29/36,82/36,91	29,71/29,73/29,80	+/+/+	2053	354	N/A	29,56	-	2053	436	N/A	29,75	-	2053	503	35,00	29,02	+
2054	34,10	29,52	+	2054	87	36,02	29,48	+	2054	388	35,40	30,85	+	2054	59	35,00	29,12	+
2055	22,03	31,52	+	2055	262	20,52	30,17	+	2055	393	19,56	29,32	+	2055	334	19,93	29,93	+
2056	34,89/36,38/37,77	29,47/29,67/29,50	+/+/+	2056	400	N/A	29,24	-	2056	292	36,16	28,98	+	2056	366	35,00	29,05	+
2095	23,81	29,42	+	2095	259	23,39	28,89	+	2095	316	23,55	28,97	+	2095	67	23,68	28,97	+
2096	N/A/N/A/N/A	37,22 /36,98/37,62	-/-/-	2096	456	37,39	29,72	+	2096	516	N/A	33,70	-	2096	196	N/A	32,86	-
2097	19,20	29,28	+	2097	255	20,18	30,06	+	2097	91	18,44	30,05	+	2097	236	19,02	29,11	+
2098	19,51	29,96	+	2098	73	18,59	28,52	+	2098	87	19,64	29,26	+	2098	147	19,75	29,03	+
2099	18,28	29,43	+	2099	131	18,15	28,58	+	2099	204	19,30	29,67	+	2099	438	18,45	29,16	+
2100	18,17	29,01	+	2100	409	17,76	28,43	+	2100	412	18,99	29,35	+	2100	486	19,17	28,91	+
2101	23,72	29,53	+	2101	180	22,54	28,62	+	2101	231	23,95	29,55	+	2101	477	22,79	28,86	+
2102	22,75	30,38	+	2102	356	21,51	29,10	+	2102	338	21,96	29,61	+	2102	127	21,94	29,69	+
2103	25,23	29,15	+	2103	374	24,73	28,82	+	2103	61	25,10	29,48	+	2103	538	24,49	28,76	+
2110	24,15	31,16	+	2110	317	23,96	32,06	+	2110	470	24,08	31,59	+	2110	253	23,59	32,43	+
2111	22,01	29,15	+	2111	495	22,41	28,90	+	2111	124	22,60	29,32	+	2111	299	22,68	29,03	+
2114	18,52	29,10	+	2114	712	18,70	28,51	+	2114	705	18,47	29,23	+	2114	576	18,75	28,92	+
2115	18,85	29,10	+	2115	706	18,51	28,36	+	2115	701	18,66	29,29	+	2115	571	18,67	28,96	+
2237	26,99	29,60	+	2237	17	25,11	28,88	+	2237	446	26,43	29,56	+	2237	130	26,64	29,00	+
2238	29,51	29,43	+	2238	83	29,66	29,55	+	2238	367	29,26	29,45	+	2238	318	28,97	29,04	+
2239	19,23	29,59	+	2239	24	N/A	29,05	-	2239	127	19,52	29,67	+	2239	307	19,00	29,14	+
2240	23,51	29,84	+	2240	272	24,65	30,28	+	2240	155	23,15	29,22	+	2240	206	23,18	29,01	+
2241	19,02	29,54	+	2241	422	19,34	28,99	+	2241	262	18,74	29,45	+	2241	74	18,98	29,16	+
2242	19,26	29,67	+	2242	209	19,50	28,73	+	2242	285	19,42	29,31	+	2242	173	19,16	29,18	+
2243	18,86	29,68	+	2243	470	19,11	28,53	+	2243	445	18,74	29,70	+	2243	258	18,90	29,44	+
2244	19,37	29,50	+	2244	247	21,30	31,78	+	2244	56	18,46	29,46	+	2244	472	19,08	28,98	+
2275	N/A	30,82	-	2275	288	N/A	30,20	-	2275	191	33,39	29,89	+	2275	433	N/A	29,10	-
2276	N/A	30,20	-	2276	76	N/A	29,84	-	2276	13	N/A	29,96	-	2276	510	N/A	28,91	-
2277	N/A N/A*	N/A 29,50*	i _*	2277	163	N/A N/A*	N/A 33,57*	i _*	2277	98	N/A	31,72	-	2277	457	N/A	30,19	-
2278	N/A N/A*	N/A 29,82*	i _*	2278	229	N/A	30,73	-	2278	205	N/A	32,30	-	2278	509	N/A	32,20	-
2279	N/A N/A*	N/A 29,59*	i _*	2279	361	N/A N/A*	N/A 29,62*	i _*	2279	350	N/A	30,38	-	2279	117	N/A	29,87	-
2280	N/A	30,55	-	2280	407	N/A N/A*	N/A 29,21*	i _*	2280	178	N/A	33,57	-	2280	46	N/A N/A*	N/A 29,18*	i _***
2281	N/A N/A*	N/A 29,66*	i _*	2281	133	N/A	26,32	-	2281	498	N/A N/A*	N/A 32,04*	i _*	2281	204	N/A N/A*	N/A 29,54*	i _***
2282	N/A	32,62	-	2282	12	N/A	34,64	-	2282	504	37,92	30,12	+	2282	421	N/A	29,28	-
2283	N/A	30,35	-	2283	449	N/A	29,84	-	2283	353	N/A	29,62	-	2283	9	N/A	28,99	-
2284	N/A	30,82	-	2284	97	N/A	31,07	-	2284	220	N/A	30,58	-	2284	516	N/A	28,55	-

SENSITIVITY																		
Bio-Rad CFX96				ABS 7500					ARIA Mx3005p					Roche LightCycler 480II				
Sample number	Cq FAM	Cq HEX	Result	Sample number	N°	Cq FAM	Cq HEX	Result	Sample number	N°	Cq FAM	Cq HEX	Result	Sample number	N°	Cq FAM	Cq HEX	Result
2285	22,15	39,03	+	2285	480	22,98	N/A	+	2285	268	23,00	30,53	+	2285	506	21,30	29,72	+
2286	N/A 29,96*	N/A 29,54*	i +*	2286	486	29,77	N/A	+	2286	229	29,36	32,94	+	2286	110	N/A 30,87*	N/A 29,11*	i +***
2287	25,72	32,34	+	2287	141	26,47	30,67	+	2287	485	25,77	29,81	+	2287	190	25,09	27,27	+
2288	N/A N/A*	N/A 29,60*	i -*	2288	326	N/A N/A*	N/A 29,45*	i -*	2288	48	N/A	29,68	-	2288	434	N/A N/A*	N/A 29,25*	i -***
2289	N/A	30,03	-	2289	437	N/A	29,68	-	2289	310	N/A	29,43	-	2289	277	N/A	29,08	-
2395	23,82	29,83	+	2395	373	22,59	28,81	+	2395	131	23,45	29,49	+	2395	384	21,72	28,81	+
2396	22,52	29,61	+	2396	375	20,91	28,26	+	2396	71	21,17	29,85	+	2396	170	21,08	29,23	+
2397	30,14	29,82	+	2397	270	31,50	30,50	+	2397	128	30,33	29,73	+	2397	55	30,43	28,93	+
2398	26,20	30,07	+	2398	379	24,69	28,89	+	2398	272	25,69	29,26	+	2398	180	25,14	29,19	+
2399	22,03	29,52	+	2399	448	21,89	28,56	+	2399	282	22,11	29,18	+	2399	489	21,69	28,86	+
2400	N/A	29,96	-	2400	475	N/A	29,74	-	2400	146	N/A	29,99	-	2400	234	N/A	29,12	-
2401	23,00	29,91	+	2401	506	22,23	29,54	+	2401	298	22,47	29,43	+	2401	256	21,40	29,33	+
2402	24,02	30,02	+	2402	366	23,17	28,99	+	2402	41	22,73	29,82	+	2402	378	22,95	28,95	+
2403	23,20	29,88	+	2403	280	20,45	29,39	+	2403	102	21,78	29,49	+	2403	155	20,97	29,33	+
2404	20,53	29,37	+	2404	282	18,31	27,56	+	2404	263	20,32	29,17	+	2404	159	19,22	29,06	+
2405	25,61	30,22	+	2405	376	22,87	28,90	+	2405	421	24,99	29,50	+	2405	280	23,86	28,84	+
2406	24,25	29,38	+	2406	9	22,51	28,82	+	2406	511	23,46	28,97	+	2406	462	22,67	29,00	+
2407	34,27	29,84	+	2407	169	32,57	29,62	+	2407	248	33,05	29,44	+	2407	404	32,42	29,36	+
2408	N/A/N/A/N/A	30,63/30,52/30,36	-/-/-	2408	522	N/A	30,05	-	2408	308	N/A	29,88	-	2408	70	N/A	29,73	-
2416	N/A	29,58	-	2416	716	N/A	29,97	-	2416	624	N/A	30,58	-	2416	586	N/A	29,84	-
2417	N/A	30,11	-	2417	719	N/A	29,98	-	2417	711	N/A	30,09	-	2417	690	35,00	29,86	+
2418	N/A	29,89	-	2418	721	N/A	29,67	-	2418	591	38,39	29,80	+	2418	648	35,00	29,29	+
2419	N/A	30,10	-	2419	724	N/A	29,39	-	2419	579	N/A	29,59	-	2419	702	N/A	29,45	-
2420	37,30	31,11	+	2420	726	36,09	30,99	+	2420	689	36,28	30,17	+	2420	703	N/A	29,97	-
2421	N/A	30,01	-	2421	575	N/A	29,16	-	2421	575	N/A	29,35	-	2421	720	N/A	29,19	-
2422	27,57	29,45	+	2422	591	26,99	29,33	+	2422	721	26,84	29,68	+	2422	722	26,00	28,84	+
2423	N/A	29,85	-	2423	679	N/A	29,67	-	2423	568	N/A	29,43	-	2423	688	N/A	29,14	-
2424	N/A	31,70	-	2424	642	N/A	30,73	-	2424	646	N/A	31,37	-	2424	599	N/A	30,31	-
2425	N/A	29,93	-	2425	674	N/A	29,34	-	2425	653	N/A	30,14	-	2425	677	N/A	29,56	-
2463	N/A	29,83	-	2463	127	N/A	29,60	-	2463	163	N/A	30,03	-	2463	69	N/A	29,32	-
2464	N/A	29,78	-	2464	493	N/A	29,60	-	2464	296	N/A	29,51	-	2464	436	N/A	29,29	-
2471	28,02	29,85	+	2471	27	27,26	29,14	+	2471	66	27,22	29,54	+	2471	156	27,35	29,19	+
2472	20,96	29,60	+	2472	214	21,63	30,23	+	2472	199	20,49	29,37	+	2472	450	20,06	29,11	+
2473	21,42	29,57	+	2473	360	21,30	28,75	+	2473	427	22,40	29,49	+	2473	6	21,27	29,18	+
2474	N/A	29,92	-	2474	4	N/A	29,30	-	2474	55	N/A	29,85	-	2474	368	N/A	29,31	-
2475	N/A	29,93	-	2475	95	N/A	29,58	-	2475	260	N/A	30,01	-	2475	405	N/A	29,17	-
2476	29,61	29,98	+	2476	8	28,64	29,08	+	2476	380	29,24	29,66	+	2476	124	29,18	29,30	+
2477	29,26	30,23	+	2477	166	29,00	29,37	+	2477	169	29,02	29,82	+	2477	89	27,94	29,15	+
2478	N/A	29,62	-	2478	431	N/A	31,68	-	2478	443	N/A	29,49	-	2478	491	N/A	29,08	-
2479	28,45	29,66	+	2479	174	28,44	29,26	+	2479	460	28,27	29,55	+	2479	235	28,20	28,87	+
2480	N/A	29,81	-	2480	77	N/A	29,27	-	2480	51	N/A	29,93	-	2480	482	N/A	29,30	-
2481	N/A	29,84	-	2481	123	N/A	29,32	-	2481	50	N/A	29,51	-	2481	283	N/A	29,28	-
2929	N/A	29,34	-	2929	285	N/A	29,48	-	2929	149	N/A	29,76	-	2929	60	N/A	28,94	-
2930	N/A	29,60	-	2930	315	N/A	29,46	-	2930	242	N/A	29,73	-	2930	148	N/A	29,23	-
2931	24,59	29,42	+	2931	369	24,19	29,08	+	2931	355	23,86	29,26	+	2931	1	24,34	29,14	+
2932	35,55/35,98/36,41	29,76/29,90/29,83	+/+/+	2932	188	36,62	30,63	+	2932	429	35,56	29,79	+	2932	317	35,00	29,29	+
2933	N/A	33,04	-	2933	358	N/A	30,95	-	2933	18	N/A	31,09	-	2933	344	N/A	31,47	-
2934	N/A	29,31	-	2934	362	N/A	29,76	-	2934	126	N/A	29,81	-	2934	370	N/A	29,21	-

SENSITIVITY																		
Bio-Rad CFX96				ABS 7500					ARIA Mx3005p					Roche LightCycler 480II				
Sample number	Cq FAM	Cq HEX	Result	Sample number	N°	Cq FAM	Cq HEX	Result	Sample number	N°	Cq FAM	Cq HEX	Result	Sample number	N°	Cq FAM	Cq HEX	Result
2935	N/A	32,40	-	2935	118	N/A	31,26	-	2935	197	33,14	30,10	+	2935	96	N/A	29,93	-
2936	N/A	29,80	-	2936	527	N/A	29,86	-	2936	47	N/A	29,76	-	2936	335	N/A	29,34	-
3267	N/A	30,46	-	3267	96	N/A	29,99	-	3267	73	N/A	30,15	-	3267	29	N/A	29,36	-
3268	22,60	29,56	+	3268	467	20,80	29,13	+	3268	224	21,93	29,39	+	3268	445	21,13	28,84	+
3269	37,04	31,37	+	3269	489	35,83	29,58	+	3269	364	35,10	29,86	+	3269	271	35,00	28,90	+
3270	N/A 36,99*	N/A 29,18*	i +*	3270	260	N/A N/A*	N/A 29,37*	i -*	3270	535	N/A N/A*	N/A 32,32*	i -***	3270	172	N/A 35,00*	N/A 29,52*	i +***
3271	22,36	N/A	+	3271	420	22,58	28,97	+	3271	275	23,12	30,14	+	3271	151	22,48	28,95	+
3272	21,75	29,48	+	3272	187	21,68	28,43	+	3272	464	22,44	29,51	+	3272	498	21,57	29,06	+
3273	32,58	29,93	+	3273	223	33,60	29,77	+	3273	157	32,67	29,80	+	3273	267	32,42	29,25	+
3274	N/A	30,85	-	3274	2	N/A	36,31	-	3274	306	N/A	29,76	-	3274	466	35,00	31,30	+
3275	N/A	29,80	-	3275	117	N/A	30,17	-	3275	438	N/A	29,66	-	3275	264	N/A	29,40	-
3276	37,70/N/A/N/A	29,75/29,65/29,94	+/-/-	3276	628	N/A	29,97	-	3276	546	N/A	30,26	-	3276	573	N/A	31,28	-
3277	22,79	30,66	+	3277	666	22,27	30,04	+	3277	596	22,38	31,45	+	3277	569	23,28	32,10	+
3278	22,35	29,36	+	3278	691	22,31	28,91	+	3278	687	22,40	29,74	+	3278	644	21,74	29,12	+
3279	21,10	30,02	+	3279	625	21,08	29,12	+	3279	681	20,29	29,77	+	3279	613	21,38	30,34	+
3280	26,81	29,80	+	3280	655	26,59	29,73	+	3280	674	25,62	29,55	+	3280	594	26,54	29,79	+
3281	21,25	29,82	+	3281	634	20,97	28,89	+	3281	564	20,26	29,28	+	3281	597	21,31	29,44	+
3282	26,41	30,03	+	3282	561	27,74	30,25	+	3282	566	26,36	29,65	+	3282	618	26,82	29,86	+
3525	29,93	29,45	+	3525	283	30,54	29,37	+	3525	276	31,98	31,02	+	3525	145	31,09	29,34	+
3526	23,47	31,05	+	3526	85	22,04	29,68	+	3526	312	21,87	29,83	+	3526	316	21,94	29,26	+
3527	26,54	30,13	+	3527	221	24,64	29,12	+	3527	113	25,55	30,39	+	3527	272	24,69	29,29	+
3528	23,41	28,96	+	3528	236	23,04	29,16	+	3528	383	22,84	29,46	+	3528	43	23,14	29,04	+
3529	23,80	31,18	+	3529	47	21,65	29,22	+	3529	517	21,59	29,53	+	3529	426	21,91	29,27	+
3530	N/A N/A*	N/A 29,72*	i -*	3530	72	N/A N/A*	N/A 29,34*	i -*	3530	244	N/A N/A*	N/A 29,37*	i -*	3530	309	N/A N/A*	N/A 29,54*	i -***
3531	N/A N/A*	N/A 29,68*	i -*	3531	344	N/A N/A*	N/A 29,39*	i -*	3531	423	N/A	36,27	-	3531	398	N/A N/A*	N/A 29,21*	i -***
3532	N/A N/A/35,86/N/A*	N/A 29,54/29,78/29,28*	i -/+/-*	3532	189	35,76	33,97	+	3532	240	35,14	33,21	+	3532	104	34,22	30,92	+
3533	20,69	28,78	+	3533	685	19,78	28,66	+	3533	608	19,84	29,22	+	3533	566	19,99	29,08	+
3534	20,16	28,88	+	3534	697	19,27	28,64	+	3534	561	19,40	29,22	+	3534	683	19,48	29,27	+
3535	20,04	29,01	+	3535	703	19,01	28,68	+	3535	628	19,47	30,81	+	3535	584	19,17	28,96	+
3536	18,48	28,84	+	3536	557	17,77	28,57	+	3536	685	17,55	29,37	+	3536	602	17,64	29,08	+
3741	28,17	30,00	+	3741	32	26,12	28,76	+	3741	506	27,17	29,43	+	3741	80	27,46	29,11	+
3742	24,15	29,49	+	3742	275	23,01	28,89	+	3742	279	23,58	29,36	+	3742	219	23,29	28,99	+
3743	32,12	30,14	+	3743	483	30,06	29,22	+	3743	360	30,97	30,01	+	3743	111	30,76	29,14	+
3744	33,77	30,40	+	3744	175	31,34	29,84	+	3744	221	32,46	29,85	+	3744	27	32,28	29,24	+
3745	25,29	29,71	+	3745	268	25,55	30,28	+	3745	496	25,08	29,34	+	3745	437	25,20	29,00	+
3746	31,11	30,25	+	3746	387	29,31	29,61	+	3746	519	30,24	29,38	+	3746	135	30,69	29,25	+
3747	N/A	30,30	-	3747	316	N/A	29,36	-	3747	501	N/A	29,48	-	3747	502	N/A	29,28	-
3748	19,10	29,89	+	3748	323	18,33	28,26	+	3748	397	19,57	29,89	+	3748	181	18,61	29,18	+
3749	18,44	30,02	+	3749	7	17,56	28,19	+	3749	394	18,81	30,35	+	3749	440	18,31	29,05	+
3750	N/A	30,57	-	3750	499	N/A	29,53	-	3750	539	N/A	29,40	-	3750	295	N/A	29,18	-
4212	N/A	30,38	-	4212	303	N/A	30,25	-	4212	72	N/A	29,99	-	4212	13	N/A	29,49	-
4213	N/A	30,85	-	4213	161	N/A	30,11	-	4213	110	N/A	29,76	-	4213	238	N/A	29,60	-
4214	N/A	29,46	-	4214	463	N/A	29,53	-	4214	210	N/A	29,71	-	4214	22	N/A	29,30	-
4215	N/A	29,97	-	4215	39	N/A	29,62	-	4215	370	N/A	29,74	-	4215	209	N/A	29,64	-
4216	N/A	29,31	-	4216	202	N/A	29,38	-	4216	456	N/A	29,93	-	4216	332	N/A	29,28	-
4217	N/A	29,43	-	4217	348	N/A	29,21	-	4217	508	N/A	29,16	-	4217	244	N/A	29,33	-
4218	N/A	29,91	-	4218	529	N/A	29,57	-	4218	208	N/A	30,25	-	4218	223	N/A	29,35	-

SENSITIVITY																		
Bio-Rad CFX96				ABS 7500					ARIA Mx3005p					Roche LightCycler 480II				
Sample number	Cq FAM	Cq HEX	Result	Sample number	N°	Cq FAM	Cq HEX	Result	Sample number	N°	Cq FAM	Cq HEX	Result	Sample number	N°	Cq FAM	Cq HEX	Result
4219	N/A	29,71	-	4219	28	N/A	29,37	-	4219	327	N/A	29,58	-	4219	490	N/A	29.01	-
4220	N/A	29,20	-	4220	491	N/A	28,49	-	4220	477	N/A	29,39	-	4220	523	N/A	29.19	-
4221	N/A	29,76	-	4221	58	N/A	29,62	-	4221	503	N/A	29,25	-	4221	352	N/A	29.13	-
4222	N/A	29,59	-	4222	248	N/A	29,83	-	4222	524	N/A	29,28	-	4222	12	N/A	29.12	-
4223	N/A	30,47	-	4223	337	N/A	29,64	-	4223	330	N/A	29,83	-	4223	308	N/A	29.60	-
4224	N/A	30,07	-	4224	48	N/A	29,53	-	4224	433	N/A	29,74	-	4224	82	N/A	29.09	-
4225	N/A	29,52	-	4225	284	N/A	30,01	-	4225	21	N/A	30,39	-	4225	44	N/A	29.04	-
4226	N/A N/A*	N/A 33,10*	i _*	4226	213	N/A N/A*	38,42 29,62*	i _*	4226	346	N/A	34,34	-	4226	153	N/A	34.00	-
4227	N/A	31,34	-	4227	257	N/A	30,31	-	4227	213	N/A	30,11	-	4227	137	N/A	29.56	-
4257	19,05	29,30	+	4257	286	19,96	30,45	+	4257	384	18,50	29,17	+	4257	325	18.63	29.09	+
4258	19,69	29,51	+	4258	405	19,49	29,64	+	4258	494	18,53	29,20	+	4258	488	18.92	28.98	+
4259	20,65	29,41	+	4259	90	19,02	28,29	+	4259	444	20,01	29,20	+	4259	408	19.87	29.13	+
4260	29,70	29,47	+	4260	301	28,40	29,18	+	4260	120	29,68	30,47	+	4260	53	28.82	28.99	+
4261	20,22	29,25	+	4261	164	20,04	28,49	+	4261	337	20,96	29,43	+	4261	410	19.80	29.22	+
4262	27,57	29,73	+	4262	465	26,64	29,29	+	4262	399	26,96	29,59	+	4262	461	26.86	29.01	+
4263	N/A	29,54	-	4263	365	N/A	29,32	-	4263	437	N/A	29,56	-	4263	197	N/A	29.21	-
4264	21,62	29,15	+	4264	528	20,94	28,76	+	4264	528	21,90	29,96	+	4264	501	20.83	28.90	+
4265	32,08	29,35	+	4265	333	32,36	29,46	+	4265	302	32,12	29,27	+	4265	39	30.79	28.90	+
4266	20,10	29,14	+	4266	525	20,14	29,01	+	4266	416	20,15	29,14	+	4266	531	20.06	28.98	+
4267	21,82	29,17	+	4267	149	22,27	29,05	+	4267	63	22,40	29,56	+	4267	217	22.06	28.88	+
4268	36,02	29,28	+	4268	307	37,52	29,52	+	4268	85	37,50	30,10	+	4268	167	33.98	29.15	+
4269	22,06	29,24	+	4269	277	23,34	29,73	+	4269	307	22,15	29,20	+	4269	375	21.99	28.88	+
4404	N/A	37,69	-	4404	643	N/A	32,33	-	4404	696	N/A N/A*	N/A 29,37*	i _*	4404	713	N/A	31.49	-
4405	N/A N/A*	38,31 29,31*	i _*	4405	571	N/A	31,16	-	4405	612	N/A N/A*	N/A 29,52*	i _*	4405	687	N/A	33.20	-
4406	N/A	37,12	-	4406	595	N/A	32,33	-	4406	550	N/A	36,40	-	4406	719	N/A	32.02	-
4407	N/A N/A*	38,33 28,95*	i _*	4407	545	N/A N/A*	N/A 29,04*	i _*	4407	590	N/A N/A*	N/A 29,57*	i _*	4407	633	N/A	35.00	-
4408	N/A	37,80	-	4408	651	N/A	35,22	-	4408	548	N/A	36,50	-	4408	693	N/A	35.00	-
4409	N/A	33,78	-	4409	682	N/A	31,75	-	4409	616	N/A	31,38	-	4409	559	N/A	31.27	-
4410	N/A	35,73	-	4410	577	N/A	32,66	-	4410	664	N/A N/A*	N/A 29,56*	i _*	4410	663	N/A	35.00	-
4411	N/A	33,72	-	4411	581	N/A	31,57	-	4411	650	N/A	33,44	-	4411	691	N/A	31.04	-
4442	N/A	29,90	-	4442	64	N/A	29,47	-	4442	342	N/A	29,43	-	4442	76	N/A	29.18	-
4443	N/A	29,79	-	4443	382	N/A	29,86	-	4443	452	N/A	29,74	-	4443	514	N/A	29.17	-
4444	N/A	29,66	-	4444	145	N/A	29,41	-	4444	374	N/A	30,41	-	4444	414	N/A	29.53	-
4445	N/A	29,62	-	4445	406	N/A	29,35	-	4445	540	N/A	29,44	-	4445	263	N/A	29.56	-
4803	20,35	39,30	+	4803	653	19,76	N/A	+	4803	693	20,83	N/A	+	4803	578	21.16	N/A	+
5334	18,43	29,59	+	5334	550	18,48	28,56	+	5334	599	17,79	28,94	+	5334	680	18.03	29.08	+
5335	18,21	29,60	+	5335	659	18,30	28,60	+	5335	630	17,91	29,32	+	5335	596	18.26	28.96	+
5336	N/A	29,57	-	5336	710	38,53	29,62	+	5336	645	N/A	29,74	-	5336	607	35.00	29.17	+
5337	N/A	29,64	-	5337	713	39,18	29,90	+	5337	724	38,32	29,89	+	5337	710	N/A	29.32	-
5380	N/A	29,89	-	5380	646	N/A	29,81	-	5380	643	N/A	29,72	-	5380	636	N/A	29.56	-
5381	N/A/N/A/N/A	32,18/32,32/32,16	-/-/-	5381	544	N/A	30,71	-	5381	661	N/A	30,95	-	5381	699	N/A	30.48	-
5382	N/A/N/A/39,05	31,15/31,62/31,38	-/-/-	5382	559	38,44	30,65	+	5382	572	38,30	31,19	+	5382	651	35.00	30.77	+
5383	30,23	31,06	+	5383	554	30,12	32,41	+	5383	565	29,64	31,10	+	5383	712	30.53	34.11	+
5384	21,88	30,29	+	5384	583	21,87	30,26	+	5384	603	21,76	30,67	+	5384	595	21.86	32.68	+
5385	23,26	29,88	+	5385	665	23,50	30,80	+	5385	642	23,39	32,17	+	5385	664	23.26	31.80	+
5386	22,48	30,43	+	5386	693	22,37	31,15	+	5386	605	21,76	31,60	+	5386	551	22.56	30.83	+

SENSITIVITY																		
Bio-Rad CFX96				ABS 7500					ARIA Mx3005p					Roche LightCycler 480II				
Sample number	Cq FAM	Cq HEX	Result	Sample number	N°	Cq FAM	Cq HEX	Result	Sample number	N°	Cq FAM	Cq HEX	Result	Sample number	N°	Cq FAM	Cq HEX	Result
5494	N/A	29,73	-	5494	695	N/A	29,44	-	5494	682	N/A	29,66	-	5494	582	N/A	29.31	-
5495	N/A	29,65	-	5495	598	N/A	29,24	-	5495	598	N/A	29,58	-	5495	621	N/A	29.19	-
5496	N/A	29,63	-	5496	681	N/A	29,25	-	5496	694	N/A	29,59	-	5496	598	N/A	29.59	-
5497	N/A	29,69	-	5497	714	N/A	29,62	-	5497	652	N/A	29,57	-	5497	601	N/A	29.27	-
5498	N/A	29,58	-	5498	585	N/A	29,45	-	5498	644	N/A	29,52	-	5498	605	N/A	29.16	-
5499	N/A	30,46	-	5499	657	N/A	29,35	-	5499	574	N/A	29,48	-	5499	686	N/A	29.36	-
5500	N/A	30,86	-	5500	715	N/A	29,49	-	5500	586	N/A	30,15	-	5500	590	N/A	29.13	-
5501	18,14	28,70	+	5501	688	17,45	28,30	+	5501	573	17,05	29,16	+	5501	600	17.58	28.97	+
5502	30,68	28,78	+	5502	574	28,58	28,95	+	5502	595	28,98	29,28	+	5502	639	29.54	29.03	+
5519	25,03	34,16	+	5519	707	24,96	N/A	+	5519	613	24,55	N/A	+	5519	574	25.30	35.00	+
5520	N/A	32,09	-	5520	725	36,79	36,85	+	5520	622	N/A	36,97	-	5520	649	35.00	35.00	+
5524	26,10	31,51	+	5524	565	26,70	33,97	+	5524	703	26,14	38,81	+	5524	625	26.67	29.74	+
5528	N/A	31,70	-	5528	578	N/A N/A*	39,60 28,97*	i _*	5528	581	N/A	36,35	-	5528	546	N/A	33.73	-
5529	N/A/N/A/N/A	31,49/31,35/31,22	-/-/-	5529	650	N/A	35,19	-	5529	712	N/A	34,07	-	5529	581	35.00	31.51	+
5531	N/A	32,69	-	5531	709	N/A	36,92	-	5531	542	N/A	37,52	-	5531	700	N/A	32.02	-
5535	N/A	32,24	-	5535	636	34,82	35,79	+	5535	559	N/A	35,47	-	5535	608	N/A	31.12	-
5536	N/A	31,25	-	5536	723	N/A	33,63	-	5536	709	N/A	35,53	-	5536	714	N/A	32.67	-
5540	N/A	30,73	-	5540	687	N/A	33,09	-	5540	585	N/A	31,87	-	5540	673	N/A	31.62	-
5541	N/A	30,70	-	5541	718	N/A	32,67	-	5541	679	N/A	32,81	-	5541	705	N/A	32.82	-
5630	N/A	28,61	-	5630	597	N/A	29,61	-	5630	707	N/A	29,55	-	5630	726	N/A	29.22	-
5631	N/A	28,88	-	5631	700	N/A	29,44	-	5631	677	N/A	29,57	-	5631	637	N/A	29.43	-
5632	N/A	29,31	-	5632	588	35,23	29,25	+	5632	708	N/A	29,60	-	5632	671	N/A	29.32	-
5671	19,45	39,74	+	5671	600	19,85	N/A	+	5671	639	19,94	N/A	+	5671	612	20.08	N/A	+
5672	25,22	38,35	+	5672	616	25,34	N/A	+	5672	556	25,09	N/A	+	5672	715	25.56	35.00	+
5760	20,37	36,49	+	5760	621	20,27	N/A	+	5760	577	19,84	N/A	+	5760	645	20.39	35.00	+
5761	N/A	32,01	-	5761	645	N/A	33,59	-	5761	649	N/A	34,11	-	5761	670	N/A	35.00	-
5762	N/A	31,02	-	5762	563	36,17	30,97	+	5762	636	N/A	33,37	-	5762	684	N/A	35.00	-
5763	21,68	36,45	+	5763	658	21,31	N/A	+	5763	716	21,43	N/A	+	5763	657	21.29	N/A	+
5764	38,03	32,77	+	5764	698	38,27	33,93	+	5764	582	N/A	34,62	-	5764	557	35.00	32.84	+
5765	N/A	32,09	-	5765	564	N/A	32,54	-	5765	609	N/A	33,14	-	5765	659	N/A	35.00	-
5766	24,09	32,88	+	5766	692	23,99	35,66	+	5766	683	23,76	N/A	+	5766	617	24.28	33.20	+
5767	21,35	39,19	+	5767	592	21,74	35,77	+	5767	723	21,23	N/A	+	5767	543	21.86	35.00	+
5768	N/A	31,81	-	5768	548	N/A	31,47	-	5768	686	N/A	33,49	-	5768	591	N/A	30.64	-
5769	20,34	38,12	+	5769	553	20,58	32,80	+	5769	638	20,27	N/A	+	5769	592	20.52	N/A	+
5770	19,91	34,44	+	5770	671	19,92	36,29	+	5770	634	20,04	N/A	+	5770	620	19.96	35.00	+
5771	18,03	37,56	+	5771	694	17,97	N/A	+	5771	673	17,87	N/A	+	5771	704	18.09	N/A	+



Primary production samples

\*: DNA extract diluted (1/10)

i : invalid result (inhibition)

RLOD																		
Bio-Rad CFX96				ABS 7500					ARIA Mx3005p					Roche LightCycler 480II				
Sample number	Cq FAM	Cq HEX	Result	Sample number	N°	Cq FAM	Cq HEX	Result	Sample number	N°	Cq FAM	Cq HEX	Result	Sample number	N°	Cq FAM	Cq HEX	Result
676	N/A	29,03	-	676	300	N/A	30,20	-	676	531	N/A	29,28	-	676	97	N/A	29.16	-
677	N/A	29,23	-	677	321	N/A	28,94	-	677	129	N/A	30,08	-	677	331	N/A	29.46	-
678	N/A	29,09	-	678	347	N/A	29,21	-	678	480	N/A	29,44	-	678	226	N/A	29.26	-
679	N/A	29,18	-	679	412	N/A	29,83	-	679	324	N/A	29,16	-	679	492	N/A	29.11	-
680	N/A	29,32	-	680	157	N/A	29,45	-	680	381	N/A	30,03	-	680	460	N/A	29.22	-
681	N/A	29,18	-	681	195	N/A	29,46	-	681	289	N/A	29,86	-	681	202	N/A	29.32	-
682	24,60	29,19	+	682	496	22,88	29,30	+	682	45	23,78	29,59	+	682	184	23.63	29.00	+
683	19,92	28,79	+	683	509	19,58	28,62	+	683	136	19,90	29,51	+	683	330	19.96	29.06	+
684	20,21	28,68	+	684	94	19,17	28,44	+	684	280	20,18	29,37	+	684	24	19.85	28.91	+
685	20,42	28,93	+	685	116	19,68	28,72	+	685	175	19,89	29,49	+	685	231	20.00	29.11	+
686	20,40	28,78	+	686	478	19,73	28,52	+	686	203	20,21	29,54	+	686	364	20.10	29.04	+
687	N/A	29,28	-	687	419	N/A	30,86	-	687	245	35,75	29,62	+	687	452	N/A	29.31	-
688	N/A	29,16	-	688	182	N/A	29,76	-	688	333	N/A	29,47	-	688	34	N/A	29.24	-
689	N/A	29,36	-	689	450	N/A	29,55	-	689	440	N/A	29,50	-	689	71	N/A	29.23	-
690	N/A	29,30	-	690	293	N/A	29,40	-	690	369	N/A	29,60	-	690	534	N/A	29.19	-
691	N/A	29,20	-	691	352	N/A	29,33	-	691	133	N/A	29,96	-	691	138	N/A	29.21	-
692	19,84	28,86	+	692	383	18,33	28,38	+	692	57	19,01	29,66	+	692	529	19.82	28.94	+
693	20,18	28,60	+	693	430	19,97	29,74	+	693	177	20,58	29,76	+	693	459	19.65	28.89	+
694	N/A	29,05	-	694	122	N/A	29,35	-	694	482	N/A	30,02	-	694	123	N/A	29.34	-
695	N/A/N/A/N/A	28,81/29,67/29,64	-/-/-	695	23	18,74	28,09	+	695	198	28,77	29,66	+	695	133	N/A	29.15	-
696	N/A	29,06	-	696	10	N/A	29,19	-	696	14	N/A	29,81	-	696	281	N/A	29.19	-
697	20,53	28,92	+	697	249	19,44	28,54	+	697	301	20,06	29,42	+	697	129	20.19	29.18	+
698	20,02	28,99	+	698	208	19,80	28,86	+	698	387	20,17	29,46	+	698	441	20.03	29.13	+
699	20,10	28,67	+	699	336	19,98	28,90	+	699	258	20,06	29,40	+	699	200	20.12	29.10	+
700	19,52	28,74	+	700	440	18,82	28,75	+	700	132	19,75	29,36	+	700	182	19.51	29.17	+
701	19,50	28,48	+	701	16	18,52	27,87	+	701	230	20,26	29,31	+	701	380	19.68	29.27	+
702	N/A	28,95	-	702	339	N/A	29,95	-	702	450	N/A	29,49	-	702	113	N/A	29.25	-
703	20,04	29,01	+	703	460	19,83	28,75	+	703	165	19,94	29,64	+	703	205	19.77	29.05	+
704	20,16	28,77	+	704	111	18,98	28,76	+	704	455	19,55	30,32	+	704	336	19.69	29.05	+
705	20,73	29,04	+	705	384	18,38	28,68	+	705	52	19,90	29,63	+	705	259	19.50	29.13	+
1119	N/A	29,63	-	1119	442	N/A	31,85	-	1119	488	N/A	29,43	-	1119	381	N/A	29.21	-
1120	N/A	30,01	-	1120	320	N/A	31,21	-	1120	27	N/A	29,87	-	1120	327	N/A	29.15	-
1121	N/A	29,90	-	1121	515	N/A	29,27	-	1121	226	N/A	29,19	-	1121	337	N/A	29.35	-
1122	37,04/N/A/N/A	29,66/29,44/29,80	+/-/-	1122	147	N/A	29,27	-	1122	331	N/A	29,52	-	1122	383	N/A	29.28	-
1123	N/A	30,14	-	1123	287	N/A	30,71	-	1123	137	N/A	30,13	-	1123	289	N/A	29.45	-
1124	N/A	29,99	-	1124	372	N/A	29,33	-	1124	140	N/A	29,77	-	1124	270	N/A	29.26	-
1125	N/A	30,11	-	1125	532	N/A	29,67	-	1125	299	N/A	29,55	-	1125	112	N/A	29.29	-
1126	25,21	29,71	+	1126	273	25,51	30,55	+	1126	196	24,43	29,19	+	1126	108	24.57	29.07	+
1127	23,69	29,60	+	1127	353	22,67	28,68	+	1127	246	23,57	29,29	+	1127	387	23.55	28.92	+
1128	23,44	29,34	+	1128	434	22,61	28,98	+	1128	283	23,07	29,18	+	1128	63	23.18	29.20	+
1129	N/A	30,02	-	1129	472	N/A	29,64	-	1129	291	N/A	29,75	-	1129	232	N/A	29.18	-
1130	N/A	29,84	-	1130	115	N/A	29,67	-	1130	391	N/A	29,55	-	1130	479	N/A	29.30	-
1131	23,35	29,52	+	1131	224	22,19	28,66	+	1131	187	22,40	29,55	+	1131	430	22.00	29.09	+
1132	N/A	29,94	-	1132	263	N/A	29,37	-	1132	112	N/A	29,82	-	1132	447	N/A	29.28	-
1133	22,95	29,76	+	1133	500	22,47	28,99	+	1133	93	22,94	29,57	+	1133	396	22.68	29.10	+
1134	N/A	29,92	-	1134	256	N/A	32,35	-	1134	481	N/A	29,66	-	1134	266	N/A	29.14	-

RLOD																		
Bio-Rad CFX96				ABS 7500					ARIA Mx3005p					Roche LightCycler 480II				
Sample number	Cq FAM	Cq HEX	Result	Sample number	N°	Cq FAM	Cq HEX	Result	Sample number	N°	Cq FAM	Cq HEX	Result	Sample number	N°	Cq FAM	Cq HEX	Result
1135	N/A	29,58	-	1135	346	N/A	29,33	-	1135	49	N/A N/A*	N/A 29,49*	i _*	1135	36	N/A	29.21	-
1136	22,26	29,48	+	1136	101	21,88	28,56	+	1136	74	21,92	29,48	+	1136	5	22.49	29.09	+
1137	N/A	29,69	-	1137	171	N/A	29,61	-	1137	121	N/A	29,96	-	1137	512	N/A	29.27	-
1138	N/A	29,61	-	1138	225	N/A	29,62	-	1138	356	N/A	29,43	-	1138	220	N/A	29.20	-
1139	N/A	29,77	-	1139	192	N/A	29,79	-	1139	16	N/A	29,79	-	1139	451	N/A	29.52	-
1140	N/A	30,00	-	1140	397	N/A	29,38	-	1140	53	N/A	30,12	-	1140	121	N/A	29.17	-
1141	22,92	29,72	+	1141	540	22,25	29,20	+	1141	515	22,31	29,03	+	1141	474	22.51	28.89	+
1142	21,24	29,77	+	1142	70	20,47	28,90	+	1142	305	21,78	29,49	+	1142	279	21.65	29.14	+
1143	24,70	29,98	+	1143	158	23,86	29,70	+	1143	402	23,97	29,51	+	1143	312	24.08	29.04	+
1144	N/A	29,03	-	1144	261	N/A	30,63	-	1144	11	N/A	29,88	-	1144	49	N/A	29.32	-
1145	N/A	29,72	-	1145	408	N/A N/A*	N/A 29,51*	i _*	1145	150	28,05	29,50	+	1145	480	N/A	29.28	-
1146	23,93	29,50	+	1146	154	23,20	29,11	+	1146	430	23,69	29,41	+	1146	360	23.49	29.09	+
1147	N/A	29,49	-	1147	239	N/A	29,45	-	1147	100	N/A	29,75	-	1147	118	N/A	29.29	-
1148	N/A	30,29	-	1148	370	N/A	29,83	-	1148	341	N/A	29,70	-	1148	91	N/A	29.27	-
1728	21,46	29,23	+	1728	388	20,97	29,60	+	1728	104	21,28	29,46	+	1728	524	20.70	29.08	+
1729	20,67	29,40	+	1729	266	21,41	30,56	+	1729	189	20,45	29,61	+	1729	300	20.70	29.05	+
1730	21,34	29,58	+	1730	134	20,88	28,97	+	1730	345	20,88	29,21	+	1730	465	21.05	28.97	+
1731	22,22	28,76	+	1731	328	23,03	30,05	+	1731	176	22,42	29,60	+	1731	349	22.22	28.98	+
1732	21,04	29,39	+	1732	389	18,49	28,54	+	1732	144	20,89	29,52	+	1732	320	20.04	29.02	+
3237	N/A	34,49	-	3237	66	N/A	31,34	-	3237	417	N/A	30,03	-	3237	247	N/A	30.07	-
3238	N/A	34,19	-	3238	219	N/A	30,98	-	3238	241	N/A	29,62	-	3238	64	N/A	29.60	-
3239	N/A	33,84	-	3239	250	N/A	33,13	-	3239	293	N/A	29,69	-	3239	212	N/A	29.76	-
3240	N/A	34,01	-	3240	215	N/A	31,11	-	3240	192	29,70	29,52	+	3240	40	N/A	29.81	-
3241	N/A	34,23	-	3241	517	N/A	30,34	-	3241	29	N/A	30,60	-	3241	225	N/A	29.87	-
3242	N/A	33,80	-	3242	334	N/A	31,07	-	3242	359	N/A	29,79	-	3242	343	N/A	29.85	-
3243	18,95	31,60	+	3243	466	17,10	29,20	+	3243	254	16,42	29,56	+	3243	54	16.87	29.30	+
3244	N/A	34,30	-	3244	534	N/A	30,88	-	3244	318	N/A	29,50	-	3244	261	N/A	29.92	-
3245	N/A	33,83	-	3245	504	N/A	30,42	-	3245	368	N/A	29,68	-	3245	119	N/A	30.05	-
3246	18,41	32,09	+	3246	119	17,57	30,13	+	3246	363	17,29	28,84	+	3246	369	16.73	29.49	+
3247	18,41	31,65	+	3247	206	17,10	29,25	+	3247	12	16,47	30,14	+	3247	140	16.71	29.34	+
3248	N/A	29,66	-	3248	241	N/A	29,51	-	3248	454	N/A	29,75	-	3248	187	N/A	29.03	-
3249	18,97	31,96	+	3249	436	19,28	31,90	+	3249	499	16,21	29,70	+	3249	142	17.16	29.61	+
3250	25,16	36,51	+	3250	290	18,28	29,70	+	3250	403	17,56	29,49	+	3250	20	17.85	29.49	+
3251	18,57	32,28	+	3251	14	17,14	29,38	+	3251	413	17,15	30,29	+	3251	3	17.07	29.72	+
3252	18,31	31,56	+	3252	201	N/A 17,46*	N/A 29,26*	i +*	3252	181	16,76	29,93	+	3252	19	16.91	29.34	+
3253	N/A	34,01	-	3253	445	N/A	31,32	-	3253	160	29,53	30,54	+	3253	537	N/A	29.83	-
3254	19,33	32,91	+	3254	69	17,50	29,68	+	3254	507	16,58	29,69	+	3254	412	17.09	29.78	+
3255	N/A	34,17	-	3255	132	N/A	31,53	-	3255	458	N/A	29,56	-	3255	193	N/A	29.66	-
3256	19,58	31,89	+	3256	291	17,75	29,61	+	3256	179	16,48	30,67	+	3256	273	17.16	29.71	+
3257	19,57	32,41	+	3257	371	18,30	30,94	+	3257	212	17,63	30,37	+	3257	515	17.21	29.60	+
3258	N/A	29,61	-	3258	461	N/A	29,50	-	3258	465	N/A	29,52	-	3258	192	31.92	29.04	+
3259	N/A	33,89	-	3259	152	N/A	31,23	-	3259	209	38,65	29,78	+	3259	141	N/A	29.62	-
3260	18,83	31,55	+	3260	86	18,02	30,44	+	3260	79	16,71	29,85	+	3260	98	16.88	29.54	+
3261	19,43	32,07	+	3261	138	17,32	29,91	+	3261	251	17,10	29,94	+	3261	132	16.80	29.62	+
3262	19,05	31,48	+	3262	492	17,59	29,99	+	3262	379	16,33	29,14	+	3262	322	16.80	29.58	+
3263	18,62	31,71	+	3263	421	18,52	31,08	+	3263	386	15,98	29,15	+	3263	166	17.26	29.76	+
3264	19,18	32,14	+	3264	292	17,33	29,44	+	3264	407	17,58	30,59	+	3264	443	17.19	29.75	+

RL0D																		
Bio-Rad CFX96				ABS 7500					ARIA Mx3005p					Roche LightCycler 480II				
Sample number	Cq FAM	Cq HEX	Result	Sample number	N°	Cq FAM	Cq HEX	Result	Sample number	N°	Cq FAM	Cq HEX	Result	Sample number	N°	Cq FAM	Cq HEX	Result
3265	N/A	34,45	-	3265	464	N/A	30,26	-	3265	78	N/A	30,84	-	3265	333	N/A	29,83	-
3266	19,54	32,10	+	3266	165	17,78	30,20	+	3266	522	16,74	29,30	+	3266	214	16,84	29,29	+
3992	N/A	29,47	-	3992	417	N/A	29,38	-	3992	284	N/A	29,19	-	3992	347	N/A	29,52	-
3993	N/A	29,46	-	3993	342	N/A	31,23	-	3993	448	N/A	29,57	-	3993	427	N/A	29,20	-
3994	N/A	29,47	-	3994	530	N/A	29,45	-	3994	216	N/A	29,49	-	3994	92	N/A	29,21	-
3995	N/A	29,31	-	3995	457	N/A	29,34	-	3995	180	N/A	29,82	-	3995	286	N/A	29,23	-
3996	N/A	29,27	-	3996	536	N/A	29,61	-	3996	385	N/A	29,64	-	3996	319	N/A	29,11	-
3997	18,85	29,17	+	3997	68	18,07	28,47	+	3997	396	18,55	29,42	+	3997	470	18,32	29,11	+
3998	18,62	29,16	+	3998	398	18,04	28,79	+	3998	174	18,97	29,81	+	3998	395	18,67	29,20	+
3999	18,42	29,09	+	3999	231	17,84	28,26	+	3999	489	18,58	29,49	+	3999	379	18,60	29,17	+
4000	N/A	29,30	-	4000	289	N/A	29,65	-	4000	37	N/A	30,09	-	4000	303	N/A	29,34	-
4001	18,34	28,99	+	4001	105	18,10	28,13	+	4001	60	18,08	30,06	+	4001	454	17,98	29,16	+
4002	18,40	28,99	+	4002	57	17,55	28,15	+	4002	236	19,09	30,17	+	4002	68	18,60	29,10	+
4003	N/A	29,09	-	4003	402	N/A	29,42	-	4003	377	N/A	29,64	-	4003	522	N/A	29,29	-
4004	N/A	29,32	-	4004	411	N/A	31,01	-	4004	97	N/A	30,08	-	4004	520	N/A	29,53	-
4005	18,44	29,38	+	4005	125	18,68	28,82	+	4005	349	18,51	29,22	+	4005	243	18,29	29,28	+
4006	N/A	29,51	-	4006	140	N/A	29,55	-	4006	239	N/A	29,48	-	4006	345	N/A	29,30	-
4007	18,22	29,02	+	4007	332	17,86	28,36	+	4007	469	18,49	29,43	+	4007	511	17,70	28,99	+
4008	18,44	28,81	+	4008	234	18,30	28,42	+	4008	434	18,40	29,15	+	4008	265	18,37	29,22	+
4009	N/A	29,31	-	4009	537	N/A	29,52	-	4009	314	N/A	29,63	-	4009	93	N/A	29,31	-
4010	18,53	29,09	+	4010	59	18,15	28,43	+	4010	115	18,82	30,07	+	4010	326	18,98	28,89	+
4011	N/A	29,17	-	4011	135	N/A	29,45	-	4011	382	N/A	29,77	-	4011	315	N/A	29,22	-
4012	18,83	29,06	+	4012	331	18,57	28,20	+	4012	86	18,00	29,71	+	4012	521	17,95	29,26	+
4013	18,63	29,02	+	4013	414	19,43	29,82	+	4013	154	19,14	29,90	+	4013	297	18,22	29,18	+
4014	18,72	29,29	+	4014	524	18,98	28,52	+	4014	243	18,49	29,40	+	4014	85	19,06	29,14	+
4015	19,00	29,32	+	4015	254	19,78	30,18	+	4015	532	18,36	29,37	+	4015	186	18,90	29,43	+
4016	18,32	29,01	+	4016	429	18,76	28,70	+	4016	514	18,92	29,06	+	4016	233	19,05	29,10	+
4017	18,89	28,83	+	4017	99	18,77	28,33	+	4017	43	18,87	29,75	+	4017	183	19,31	29,13	+
4018	18,98	29,07	+	4018	296	19,05	28,19	+	4018	142	18,91	29,90	+	4018	211	19,00	29,18	+
4019	18,73	28,92	+	4019	335	18,60	27,81	+	4019	297	19,09	29,30	+	4019	418	19,17	29,44	+
4020	19,13	28,89	+	4020	349	21,17	31,32	+	4020	183	19,28	29,82	+	4020	536	19,59	29,21	+
4021	19,23	29,30	+	4021	485	18,85	29,06	+	4021	249	18,60	29,19	+	4021	33	19,10	29,03	+
4518	N/A	30,18	-	4518	252	N/A	31,91	-	4518	170	N/A	33,12	-	4518	403	N/A	30,68	-
4519	N/A	29,59	-	4519	146	N/A	31,07	-	4519	536	N/A	31,30	-	4519	400	N/A	32,11	-
4520	N/A	30,07	-	4520	232	N/A N/A*	N/A 31,00*	i _*	4520	82	N/A	31,90	-	4520	169	N/A	30,91	-
4521	N/A	29,75	-	4521	508	N/A	31,16	-	4521	3	N/A	31,55	-	4521	475	N/A	30,23	-
4522	N/A	29,89	-	4522	53	N/A	30,30	-	4522	109	N/A	31,95	-	4522	26	N/A	30,92	-
4543	N/A	29,28	-	4543	471	N/A	30,06	-	4543	70	N/A	32,50	-	4543	362	N/A	31,47	-
4544	N/A	29,39	-	4544	395	N/A	31,97	-	4544	122	N/A	32,83	-	4544	365	N/A	31,00	-
4545	22,29	29,04	+	4545	181	22,18	29,41	+	4545	472	22,74	29,53	+	4545	79	22,93	29,33	+
4546	23,03	29,03	+	4546	45	22,50	28,67	+	4546	409	22,90	29,61	+	4546	429	23,39	29,43	+
4547	23,38	29,41	+	4547	42	22,99	28,90	+	4547	257	23,43	29,67	+	4547	424	23,74	29,90	+
4593	N/A	29,76	-	4593	345	N/A	29,99	-	4593	286	N/A	31,45	-	4593	278	N/A	30,06	-
4594	N/A	29,57	-	4594	89	N/A	29,81	-	4594	218	N/A	29,73	-	4594	16	N/A	30,78	-
4595	N/A	29,43	-	4595	220	N/A	30,85	-	4595	313	N/A	29,88	-	4595	51	N/A	29,59	-
4596	N/A	29,42	-	4596	233	N/A N/A*	N/A 30,08*	i _*	4596	223	N/A	29,95	-	4596	409	N/A	29,96	-
4597	28,19	29,12	+	4597	137	27,45	29,32	+	4597	233	27,61	29,78	+	4597	94	27,81	30,24	+
4598	N/A	29,53	-	4598	423	N/A	32,34	-	4598	116	N/A	30,28	-	4598	178	N/A	30,02	-

RL0D																		
Bio-Rad CFX96				ABS 7500					ARIA Mx3005p					Roche LightCycler 480II				
Sample number	Cq FAM	Cq HEX	Result	Sample number	N°	Cq FAM	Cq HEX	Result	Sample number	N°	Cq FAM	Cq HEX	Result	Sample number	N°	Cq FAM	Cq HEX	Result
4599	N/A	29,78	-	4599	487	N/A	30,00	-	4599	366	N/A	29,89	-	4599	107	N/A	29,91	-
4600	25,82	29,17	+	4600	38	24,52	29,56	+	4600	228	25,67	30,14	+	4600	207	25,56	29,80	+
4601	N/A	29,53	-	4601	114	N/A	30,25	-	4601	5	38,53	30,72	+	4601	484	N/A	29,96	-
4602	25,75	29,07	+	4602	428	25,54	29,74	+	4602	83	26,15	30,61	+	4602	73	25,71	29,59	+
4603	N/A	29,33	-	4603	338	N/A	29,76	-	4603	490	N/A	30,24	-	4603	313	N/A	29,96	-
4604	N/A	29,27	-	4604	541	N/A	29,81	-	4604	34	N/A	30,54	-	4604	42	N/A	29,85	-
4605	N/A	29,69	-	4605	177	N/A	30,68	-	4605	354	N/A	30,50	-	4605	504	N/A	29,90	-
4606	22,19	29,03	+	4606	167	21,53	29,00	+	4606	77	21,70	30,41	+	4606	177	21,58	29,06	+
4607	N/A	29,39	-	4607	390	N/A	30,00	-	4607	518	N/A	29,91	-	4607	356	N/A	30,52	-
4608	N/A	29,63	-	4608	413	N/A	30,47	-	4608	167	N/A	31,69	-	4608	136	N/A	30,68	-
4609	N/A	29,13	-	4609	179	N/A	30,56	-	4609	138	N/A	30,78	-	4609	86	N/A	30,00	-
4610	23,28	28,76	+	4610	19	22,34	28,55	+	4610	143	23,30	29,99	+	4610	456	22,26	29,67	+
4611	24,61	29,01	+	4611	44	23,51	29,14	+	4611	19	23,93	30,03	+	4611	473	24,08	29,30	+
4612	N/A	30,27	-	4612	130	N/A	33,06	-	4612	451	N/A	32,51	-	4612	411	N/A	32,21	-
5018	N/A	35,30	-	5018	637	N/A	37,10	-	5018	719	N/A	33,83	-	5018	556	N/A	31,97	-
5019	N/A	34,79	-	5019	727	N/A	N/A	-	5019	587	N/A	35,21	-	5019	666	N/A	35,00	-
5020	N/A	33,86	-	5020	558	34,07	35,42	+	5020	702	N/A	35,92	-	5020	631	N/A	33,01	-
5021	N/A	35,10	-	5021	615	N/A N/A*	N/A 29,39*	i _*	5021	704	N/A N/A*	N/A 29,76*	i _*	5021	606	N/A N/A*	N/A 29,44*	i _*
5022	N/A	34,07	-	5022	639	37,90	38,02	+	5022	722	N/A	33,08	-	5022	658	N/A	35,00	-
5148	N/A	35,81	-	5148	686	N/A	34,14	-	5148	567	N/A N/A*	38,68 29,76*	i _*	5148	641	N/A	35,00	-
5149	35,12	N/A	+	5149	675	35,85	38,56	+	5149	718	35,36	33,91	+	5149	681	35,00	35,00	+
5150	28,83	34,87	+	5150	589	28,85	33,51	+	5150	668	28,55	N/A	+	5150	624	28,92	31,21	+
5151	28,90	38,28	+	5151	629	28,71	N/A	+	5151	633	28,61	N/A	+	5151	549	28,97	33,14	+
5152	N/A	33,01	-	5152	606	34,02	35,00	+	5152	618	N/A	32,71	-	5152	568	N/A	31,31	-
5153	N/A	33,77	-	5153	667	N/A	36,42	-	5153	667	N/A	36,97	-	5153	629	N/A	33,56	-
5154	N/A	35,33	-	5154	699	N/A	36,21	-	5154	610	N/A	34,65	-	5154	630	N/A	35,00	-
5155	22,77	N/A	+	5155	551	22,35	N/A	+	5155	697	22,17	N/A	+	5155	650	22,79	N/A	+
5156	N/A	34,95	-	5156	562	N/A	35,22	-	5156	699	N/A N/A*	38,41 29,23*	i _*	5156	689	N/A	31,70	-
5157	N/A	37,62	-	5157	586	37,32	N/A	+	5157	558	N/A	36,60	-	5157	696	N/A	32,29	-
5158	N/A	33,51	-	5158	603	N/A	31,68	-	5158	625	N/A	31,94	-	5158	723	N/A	32,10	-
5159	N/A	32,90	-	5159	702	N/A	32,96	-	5159	544	N/A	35,55	-	5159	550	N/A	30,63	-
5160	N/A	33,03	-	5160	609	N/A	37,47	-	5160	614	N/A	36,04	-	5160	604	N/A	31,66	-
5161	N/A	34,35	-	5161	670	N/A	35,04	-	5161	592	N/A	34,35	-	5161	627	N/A	33,10	-
5162	30,68	34,18	+	5162	673	30,67	32,75	+	5162	698	30,32	39,74	+	5162	580	30,51	31,79	+
5163	29,07	39,10	+	5163	683	29,01	35,28	+	5163	715	28,75	38,08	+	5163	707	29,12	32,05	+
5164	N/A	35,31	-	5164	624	37,03	34,09	+	5164	672	N/A N/A*	38,83 29,62*	i _*	5164	587	N/A	32,23	-
5165	30,21	38,82	+	5165	614	29,91	37,59	+	5165	700	29,35	37,22	+	5165	560	30,20	30,68	+
5166	26,83	N/A	+	5166	632	26,51	N/A	+	5166	691	26,67	N/A	+	5166	676	26,74	N/A	+
5167	32,08	32,68	+	5167	689	32,03	32,35	+	5167	551	32,50	34,46	+	5167	678	31,85	32,09	+
5168	N/A	32,63	-	5168	566	N/A	32,55	-	5168	695	N/A	32,16	-	5168	706	N/A	31,11	-
5169	25,38	N/A	+	5169	627	24,97	N/A	+	5169	726	25,00	N/A	+	5169	652	25,25	35,00	+
5170	23,84	N/A	+	5170	680	23,26	N/A	+	5170	576	23,09	39,23	+	5170	542	23,65	35,00	+
5171	25,72	N/A	+	5171	579	25,35	32,01	+	5171	615	25,04	37,80	+	5171	555	25,77	34,15	+
5172	26,67	N/A	+	5172	594	26,20	33,04	+	5172	641	26,17	36,05	+	5172	563	26,51	31,39	+

EXCLUSIVITY																		
Bio-Rad CFX96				ABS 7500					ARIA Mx3005p					Roche LightCycler 480II				
Sample number	Cq FAM	Cq HEX	Result	Sample number	N°	Cq FAM	Cq HEX	Result	Sample number	N°	Cq FAM	Cq HEX	Result	Sample number	N°	Cq FAM	Cq HEX	Result
1-	N/A	29,90	-	1-	210	N/A	29,57	-	1-	491	N/A	29,46	-	1-	161	N/A	29,12	-
2-	N/A	29,57	-	2-	435	N/A	30,63	-	2-	147	N/A	29,63	-	2-	305	N/A	29,27	-
3-	N/A	29,57	-	3-	306	N/A	29,29	-	3-	315	N/A	29,47	-	3-	83	N/A	29,17	-
4-	N/A	29,41	-	4-	36	N/A	28,99	-	4-	92	N/A	30,03	-	4-	507	N/A	29,19	-
5-	N/A	29,56	-	5-	55	N/A	29,09	-	5-	125	N/A	29,68	-	5-	530	N/A	29,07	-
6-	N/A	29,30	-	6-	186	N/A	29,41	-	6-	222	N/A	29,76	-	6-	25	N/A	29,21	-
7-	N/A	29,60	-	7-	368	N/A	29,97	-	7-	25	N/A	29,80	-	7-	311	N/A	29,16	-
8-	N/A	29,56	-	8-	22	N/A	28,88	-	8-	478	N/A	29,43	-	8-	45	N/A	29,30	-
9-	N/A	29,42	-	9-	452	N/A	29,55	-	9-	525	N/A	29,32	-	9-	288	N/A	29,31	-
10-	N/A	29,29	-	10-	113	N/A	29,37	-	10-	232	N/A	29,60	-	10-	229	N/A	29,30	-
11-	N/A	29,37	-	11-	443	N/A	30,47	-	11-	352	N/A	29,41	-	11-	464	N/A	29,14	-
12-	N/A	29,48	-	12-	462	N/A	29,21	-	12-	269	N/A	30,47	-	12-	399	N/A	29,34	-
13-	N/A	29,45	-	13-	258	N/A	30,59	-	13-	188	34,07/32,97	29,89/29,78	+/+	13-	351	N/A	29,09	-
14-	N/A	29,52	-	14-	253	N/A	29,77	-	14-	304	N/A	29,37	-	14-	268	N/A	29,33	-
15-	N/A	29,65	-	15-	5	N/A	28,96	-	15-	365	N/A	29,52	-	15-	163	N/A	29,20	-
16-	N/A	29,36	-	16-	197	N/A	28,95	-	16-	392	N/A	29,30	-	16-	216	N/A	29,43	-
17-	N/A	29,39	-	17-	172	N/A	29,76	-	17-	23	N/A	29,84	-	17-	152	N/A	29,33	-
18-	N/A	29,38	-	18-	98	N/A	29,36	-	18-	31	N/A	30,26	-	18-	517	N/A	29,49	-
19-	N/A	29,24	-	19-	151	N/A	29,39	-	19-	35	N/A	29,80	-	19-	2	N/A	29,23	-
20-	N/A	29,25	-	20-	432	N/A	29,39	-	20-	202	N/A	29,63	-	20-	52	N/A	29,04	-
21-	N/A	29,53	-	21-	305	N/A	29,08	-	21-	424	N/A	29,40	-	21-	245	N/A	29,21	-
22-	N/A	29,61	-	22-	20	N/A	29,20	-	22-	44	N/A	30,02	-	22-	397	N/A	29,23	-
23-	N/A	29,52	-	23-	205	N/A	29,77	-	23-	96	N/A	30,14	-	23-	493	N/A	29,28	-
24-	N/A	29,39	-	24-	15	N/A	28,99	-	24-	171	N/A	29,74	-	24-	18	N/A	29,02	-
25-	N/A	29,31	-	25-	194	N/A	29,48	-	25-	493	N/A	29,37	-	25-	154	N/A	29,33	-
26-	N/A	29,26	-	26-	459	N/A	29,40	-	26-	523	N/A	29,21	-	26-	353	N/A	29,35	-
27-	N/A	29,30	-	27-	3	N/A	28,77	-	27-	500	N/A	29,14	-	27-	348	N/A	28,94	-
28-	N/A	29,67	-	28-	92	N/A	29,66	-	28-	479	N/A	29,53	-	28-	30	N/A	29,26	-
29-	N/A	29,33	-	29-	1	N/A	28,86	-	29-	534	N/A	29,41	-	29-	246	N/A	29,24	-
30-	N/A	29,53	-	30-	91	N/A	29,78	-	30-	153	N/A	29,91	-	30-	262	N/A	29,12	-

INCLUSIVITY																		
Bio-Rad CFX96				ABS 7500					ARIA Mx3005p					Roche LightCycler 480II				
ADRIA number	Cq FAM	Cq HEX	Result	ADRIA number	N°	Cq FAM	Cq HEX	Result	ADRIA number	N°	Cq FAM	Cq HEX	Result	ADRIA number	N°	Cq FAM	Cq HEX	Result
1+	18,41	29,14	+	1+	43	16,71	28,10	+	1+	502	17,35	29,29	+	1+	422	16,87	29,00	+
2+	17,64	29,06	+	2+	243	19,13	31,26	+	2+	2	17,44	30,02	+	2+	87	17,34	28,98	+
3+	22,29	29,36	+	3+	297	22,03	28,55	+	3+	114	22,74	29,85	+	3+	468	22,62	29,05	+
4+	17,25	29,15	+	4+	490	16,83	29,25	+	4+	459	17,77	30,17	+	4+	401	17,01	29,13	+
5+	22,48	29,20	+	5+	29	21,22	28,06	+	5+	69	21,73	29,64	+	5+	390	22,24	29,14	+
6+	17,77	29,42	+	6+	444	17,48	28,44	+	6+	261	17,89	29,64	+	6+	120	16,91	29,05	+
7+	16,95	29,60	+	7+	159	17,07	28,64	+	7+	166	17,39	29,73	+	7+	406	16,89	29,25	+
8+	18,79	29,43	+	8+	242	18,80	28,52	+	8+	521	19,09	29,14	+	8+	284	18,37	28,99	+
9+	18,01	29,11	+	9+	295	17,40	28,83	+	9+	106	18,51	29,66	+	9+	302	17,78	29,31	+
10+	17,95	29,38	+	10+	458	16,66	28,44	+	10+	497	18,04	29,27	+	10+	389	17,56	29,20	+
11+	17,85	29,15	+	11+	203	17,54	28,44	+	11+	148	18,09	30,07	+	11+	377	17,24	29,22	+
12+	18,06	29,18	+	12+	269	18,03	30,27	+	12+	294	17,66	29,11	+	12+	500	17,89	29,14	+
13+	20,02	29,15	+	13+	539	18,73	28,66	+	13+	406	18,83	29,24	+	13+	342	19,00	29,09	+
14+	17,24	29,12	+	14+	31	16,88	27,96	+	14+	526	17,76	29,03	+	14+	221	17,48	29,14	+
15+	18,25	29,53	+	15+	190	16,90	28,17	+	15+	473	18,08	29,70	+	15+	339	17,83	29,07	+
16+	16,08	29,59	+	16+	198	17,62	29,80	+	16+	325	17,36	29,22	+	16+	417	16,11	29,15	+
17+	17,46	29,27	+	17+	425	17,87	28,85	+	17+	404	17,62	29,47	+	17+	483	17,13	29,22	+
18+	17,63	29,16	+	18+	26	17,22	28,38	+	18+	190	17,71	29,58	+	18+	350	17,88	29,11	+
19+	17,92	29,01	+	19+	128	16,78	28,64	+	19+	161	17,90	29,64	+	19+	487	17,66	29,14	+
20+	17,57	29,25	+	20+	477	18,02	28,45	+	20+	420	17,17	30,27	+	20+	425	17,26	29,36	+
21+	18,17	29,18	+	21+	183	17,46	28,69	+	21+	266	17,56	29,25	+	21+	199	17,96	29,24	+
22+	17,67	29,20	+	22+	199	17,23	28,64	+	22+	348	17,75	29,14	+	22+	176	17,67	29,11	+
23+	15,59	29,39	+	23+	50	16,54	27,95	+	23+	336	16,91	29,14	+	23+	467	16,90	28,96	+
24+	17,30	29,39	+	24+	302	16,80	28,40	+	24+	15	17,55	30,07	+	24+	508	17,07	29,27	+
25+	18,21	29,17	+	25+	178	17,78	28,73	+	25+	487	17,97	29,16	+	25+	240	17,82	29,04	+
26+	17,90	29,25	+	26+	56	17,76	27,92	+	26+	411	18,70	29,76	+	26+	485	18,88	29,14	+
27+	18,53	29,34	+	27+	514	17,88	28,71	+	27+	347	17,77	29,36	+	27+	174	18,09	29,18	+
28+	28,46	29,56	+	28+	299	28,09	29,11	+	28+	527	28,22	29,43	+	28+	90	28,35	28,95	+
29+	18,85	29,15	+	29+	351	18,53	29,29	+	29+	335	18,07	29,32	+	29+	329	18,60	29,19	+
30+	18,84	29,16	+	30+	281	18,03	29,34	+	30+	99	18,19	29,52	+	30+	157	17,86	29,23	+
31+	18,10	29,41	+	31+	415	17,77	28,78	+	31+	405	18,33	29,45	+	31+	252	17,79	29,03	+
32+	18,28	29,31	+	32+	501	17,85	29,15	+	32+	227	17,92	29,42	+	32+	420	17,19	29,29	+
33+	18,47	29,41	+	33+	204	18,48	29,87	+	33+	401	18,06	29,41	+	33+	254	17,48	29,09	+
34+	18,02	29,42	+	34+	533	18,05	28,47	+	34+	256	17,32	29,19	+	34+	357	17,68	29,15	+
35+	20,61	29,18	+	35+	535	19,29	28,61	+	35+	476	18,93	29,08	+	35+	139	19,78	29,00	+
36+	18,65	29,33	+	36+	518	17,97	28,35	+	36+	30	18,01	30,44	+	36+	540	18,30	29,13	+
37+	19,67	29,30	+	37+	227	19,48	30,33	+	37+	4	18,56	30,00	+	37+	497	18,57	29,10	+
38+	19,50	29,23	+	38+	377	19,59	30,45	+	38+	33	18,23	29,78	+	38+	158	18,68	29,25	+
39+	20,10	29,67	+	39+	538	19,05	28,88	+	39+	200	18,92	29,19	+	39+	274	18,30	30,18	+
40+	18,71	29,54	+	40+	49	17,48	28,10	+	40+	483	17,75	29,16	+	40+	304	17,88	29,19	+
41+	17,77	29,34	+	41+	185	17,55	28,30	+	41+	484	17,63	29,06	+	41+	431	17,74	29,10	+
42+	18,03	29,11	+	42+	311	18,06	28,59	+	42+	173	18,71	29,80	+	42+	146	18,62	29,17	+
43+	18,61	29,40	+	43+	310	17,80	28,54	+	43+	186	18,63	29,26	+	43+	539	18,45	29,05	+
44+	18,04	29,17	+	44+	218	17,84	28,60	+	44+	58	17,49	29,65	+	44+	185	18,12	29,30	+
45+	20,10	29,32	+	45+	474	19,33	28,53	+	45+	237	19,47	29,23	+	45+	242	19,75	29,17	+
46+	18,61	29,14	+	46+	503	18,63	28,70	+	46+	332	18,81	29,26	+	46+	99	18,96	29,04	+
47+	18,32	29,27	+	47+	144	17,41	28,54	+	47+	376	18,05	29,43	+	47+	310	18,44	29,14	+
48+	18,19	29,37	+	48+	363	18,31	27,96	+	48+	64	17,41	29,47	+	48+	499	17,77	29,05	+
49+	18,77	29,16	+	49+	37	18,04	28,46	+	49+	287	18,45	29,19	+	49+	56	18,90	29,11	+
50+	18,19	29,19	+	50+	67	17,26	28,35	+	50+	457	17,68	29,18	+	50+	394	18,24	29,07	+

**INCLUSIVITY**

Bio-Rad CFX96				ABS 7500					ARIA Mx3005p					Roche LightCycler 480II				
ADRIA number	Cq FAM	Cq HEX	Result	ADRIA number	N°	Cq FAM	Cq HEX	Result	ADRIA number	N°	Cq FAM	Cq HEX	Result	ADRIA number	N°	Cq FAM	Cq HEX	Result
51+	18,40	29,22	+	51+	129	17,19	28,61	+	51+	108	17,69	29,42	+	51+	505	17,37	29,04	+
52+	18,43	29,27	+	52+	523	18,56	28,66	+	52+	288	18,22	29,34	+	52+	50	18,53	29,10	+
53+	18,39	29,31	+	53+	468	17,78	28,29	+	53+	300	18,02	29,14	+	53+	391	18,04	29,05	+
54+	18,47	29,30	+	54+	322	18,54	28,68	+	54+	68	18,21	29,58	+	54+	519	19,12	28,96	+
55+	18,38	29,46	+	55+	80	17,08	28,05	+	55+	151	17,45	29,64	+	55+	371	17,82	29,03	+
56+	18,59	29,37	+	56+	226	18,09	28,72	+	56+	467	18,35	29,44	+	56+	131	18,12	29,29	+
57+	18,58	29,18	+	57+	168	17,87	28,23	+	57+	118	18,53	29,91	+	57+	458	18,50	29,14	+
58+	17,62	29,19	+	58+	51	17,03	27,92	+	58+	362	17,64	29,68	+	58+	189	17,51	29,05	+
59+	18,33	29,18	+	59+	330	17,38	28,60	+	59+	36	17,76	29,82	+	59+	126	17,91	29,27	+
60+	17,98	29,13	+	60+	79	17,51	28,10	+	60+	26	18,38	29,98	+	60+	28	18,41	29,07	+
61+	18,26	29,14	+	61+	21	17,39	28,22	+	61+	453	18,35	29,42	+	61+	168	18,31	29,30	+
62+	19,52	29,25	+	62+	237	18,60	28,60	+	62+	250	18,85	29,13	+	62+	323	19,49	29,22	+
63+	18,56	29,81	+	63+	479	18,62	28,53	+	63+	28	18,34	29,53	+	63+	228	18,61	29,11	+
64+	18,62	29,39	+	64+	200	17,88	28,35	+	64+	390	18,12	29,48	+	64+	255	17,98	29,23	+
65+	20,71	29,42	+	65+	494	20,53	28,59	+	65+	441	20,72	29,33	+	65+	282	20,88	29,01	+
66+	18,13	29,04	+	66+	63	16,72	28,22	+	66+	88	17,06	29,79	+	66+	149	18,27	29,21	+
67+	17,87	29,20	+	67+	52	16,78	27,89	+	67+	329	18,77	30,49	+	67+	227	17,68	29,20	+
68+	17,68	28,91	+	68+	196	18,52	29,61	+	68+	235	17,91	29,31	+	68+	162	18,26	29,08	+
69+	19,01	29,05	+	69+	100	17,35	28,33	+	69+	76	17,45	29,53	+	69+	21	18,66	29,12	+
70+	15,41	29,12	+	70+	416	18,42	28,52	+	70+	201	17,72	29,60	+	70+	513	17,46	29,23	+
71+	18,27	29,35	+	71+	520	17,94	28,68	+	71+	512	18,40	29,47	+	71+	105	18,02	29,16	+
72+	18,31	29,39	+	72+	505	17,96	28,45	+	72+	80	17,50	29,62	+	72+	128	18,49	29,12	+
73+	18,43	29,14	+	73+	516	18,18	28,47	+	73+	134	18,51	29,40	+	73+	248	18,13	29,06	+
74+	17,68	29,21	+	74+	244	17,65	28,79	+	74+	89	17,64	29,78	+	74+	444	18,01	29,25	+
75+	18,39	29,07	+	75+	93	17,92	28,13	+	75+	219	18,53	29,27	+	75+	122	18,77	29,04	+
76+	18,54	28,97	+	76+	447	21,43	30,12	+	76+	509	19,60	29,21	+	76+	373	19,82	29,13	+
77+	17,62	28,62	+	77+	341	17,79	28,30	+	77+	372	17,89	29,69	+	77+	215	17,85	29,10	+
78+	18,30	28,87	+	78+	399	18,63	28,87	+	78+	39	18,02	29,44	+	78+	469	17,09	28,99	+
79+	18,56	28,73	+	79+	143	18,14	28,90	+	79+	449	18,33	29,41	+	79+	72	18,77	29,16	+
80+	17,66	29,08	+	80+	367	16,61	28,35	+	80+	10	16,81	29,61	+	80+	210	17,66	28,96	+
81+	18,51	28,78	+	81+	385	17,52	28,70	+	81+	533	18,48	29,07	+	81+	201	18,30	29,09	+
82+	17,52	28,48	+	82+	207	18,04	28,74	+	82+	156	17,67	29,38	+	82+	7	18,09	29,00	+
83+	18,56	28,80	+	83+	193	19,90	30,52	+	83+	538	19,01	29,41	+	83+	535	17,72	29,11	+
84+	18,41	28,79	+	84+	446	19,90	30,19	+	84+	541	18,24	29,33	+	84+	340	18,75	29,32	+
85+	17,49	28,55	+	85+	512	18,34	28,52	+	85+	395	18,37	29,29	+	85+	292	16,97	29,27	+
86+	18,06	28,65	+	86+	61	17,29	28,65	+	86+	270	18,10	29,74	+	86+	150	17,86	29,21	+
87+	16,58	28,72	+	87+	88	17,66	28,15	+	87+	339	17,84	29,04	+	87+	78	17,32	29,17	+
88+	18,50	28,83	+	88+	246	18,52	29,93	+	88+	513	18,84	29,38	+	88+	65	18,52	29,14	+
89+	18,11	28,79	+	89+	139	18,41	28,48	+	89+	271	19,16	30,40	+	89+	341	18,80	29,06	+
90+	17,21	28,87	+	90+	378	17,23	28,54	+	90+	65	16,63	29,84	+	90+	306	17,59	29,06	+
91+	17,58	28,92	+	91+	33	18,09	27,43	+	91+	351	17,93	29,06	+	91+	114	18,12	29,05	+
92+	14,25	28,54	+	92+	454	18,73	29,83	+	92+	361	17,64	29,60	+	92+	275	17,90	29,10	+
93+	17,92	29,37	+	93+	298	17,47	28,50	+	93+	371	17,34	29,95	+	93+	218	17,47	29,21	+
94+	18,22	28,76	+	94+	510	18,22	28,53	+	94+	466	17,85	29,34	+	94+	321	17,90	29,28	+
95+	17,98	29,01	+	95+	488	17,55	28,78	+	95+	8	18,76	29,51	+	95+	95	17,49	29,27	+
96+	18,17	28,65	+	96+	343	16,71	28,72	+	96+	42	18,09	29,81	+	96+	525	16,60	29,21	+
97+	17,69	29,12	+	97+	469	17,28	28,62	+	97+	418	17,39	29,23	+	97+	203	17,44	28,95	+
98+	21,74	29,00	+	98+	274	21,42	28,45	+	98+	193	22,07	29,56	+	98+	448	21,59	29,22	+
99+	17,39	28,88	+	99+	74	17,88	28,20	+	99+	238	18,35	29,36	+	99+	249	17,43	29,18	+
100+	18,24	28,79	+	100+	418	18,59	28,66	+	100+	309	18,37	29,52	+	100+	471	17,85	28,98	+

## Appendix 4 – Artificial contamination of samples

Date of analysis	N° Sample	Product (French name)	Product	Artificial contaminations (food, feed and environmental samples)						Global result				Category	Type
				Strain	Origin	Injury protocol	Injury measurement	Inoculation level/sample		Bio-Rad CFX96	ABS 7500	Agilent MX3005P	Roche LightCycler 480 II		
								Enumeration	Mean						
2018	787	Terrine à la truite et aux amandes	Fish terrine	S. SaintPaul F31	Fish fillet	Seeding 48H at 3±2°C	/	2-1-2-0-1	1,2	+	+	+	+	1	a
2018	788	Terrine aux Saint Jacques	Fish terrine	S. Derby F81	Shellfish	Seeding 48H at 3±2°C	/	0-0-1-0-1	0,4	+	+	+	+	1	a
2018	789	Terrine crabe/homard	Fish terrine	S. Derby F81	Shellfish	Seeding 48H at 3±2°C	/	0-0-1-0-1	0,4	+	+	+	+	1	a
2018	790	Terrine de saumon et saumon fumé	Fish terrine	S. SaintPaul F31	Fish fillet	Seeding 48H at 3±2°C	/	2-1-2-0-1	1,2	+	+	+	+	1	a
2018	1011	Eclair chocolat	Pastry	S. Derby Ad1683	Pastry	Seeding 48H at 3±2°C	/	3-1-3-4-3	2,8	+	+	+	+	1	a
2018	1012	Religieuse	Pastry	S. Derby Ad1683	Pastry	Seeding 48H at 3±2°C	/	3-1-3-4-3	2,8	+	+	+	+	1	a
2018	1013	Tartelette framboises	Pastry	S. Derby Ad1683	Pastry	Seeding 48H at 3±2°C	/	3-1-3-4-3	2,8	+	+	+	+	1	a
2018	1014	Opéra	Pastry	S. Derby Ad1683	Pastry	Seeding 48H at 3±2°C	/	3-1-3-4-3	2,8	+	+	+	+	1	a
2018	2095	Jambon cuit supérieur	Cooked ham	S. Enteritidis 2532	Ham	Seeding 48H at 3±2°C	/	2-1-2-2-4	2,2	+	+	+	+	1	a
2018	2096	Mayonnaise fine	Mayonnaise	S. Mbandaka Ad914	Mayonnaise	Seeding 48H at 3±2°C	/	4-5-3-3-0	3,0	+	+	+	+	1	a
2018	2097	Quiche lorraine	Quiche	S. Mbandaka Ad914	Mayonnaise	Seeding 48H at 3±2°C	/	4-5-3-3-0	3,0	+	+	+	+	1	a
2018	2103	Tapas (crevettes, moules, encornets, calamars)	RTE (tapas)	S. Senftenberg Ad355	Seafood cocktail	Seeding 48H at 3±2°C	/	3-3-3-3-2	2,8	+	+	+	+	1	a
2018	2110	Chair de tourteaux	Crab meat	S. Senftenberg Ad355	Seafood cocktail	Seeding 48H at 3±2°C	/	3-3-3-3-2	2,8	+	+	+	+	1	a
2018	2111	Surimi	Surimi	S. Senftenberg Ad355	Seafood cocktail	Seeding 48H at 3±2°C	/	3-3-3-3-2	2,8	+	+	+	+	1	a
2018	1001	Poulet au curry et légumes	RTRH (chicken)	S. Anatum 6140	RTRH meal	Seeding 48H at 3±2°C	/	12-10-14-13-8	11,4	+	+	+	+	1	b
2018	1002	Bœuf bourguignon	RTRH (beef)	S. Anatum 6140	RTRH meal	Seeding 48H at 3±2°C	/	12-10-14-13-8	11,4	+	+	+	+	1	b
2018	1005	Sauté de porc à la catalane	RTRH (pork)	S. Anatum 6140	RTRH meal	Seeding 48H at 3±2°C	/	12-10-14-13-8	11,4	-	-	-	-	1	b
2018	1006	Crevettes sauce piquante	RTRH (shrimp)	S. Typhimurium 305	RTRH meal	Seeding 48H at 3±2°C	/	1-2-1-1-5	2,0	+	+	+	+	1	b
2018	1007	Encornet farci	RTRH (squid)	S. Typhimurium 305	RTRH meal	Seeding 48H at 3±2°C	/	1-2-1-1-5	2,0	+	+	+	+	1	b
2018	1008	Paella	RTRH (paella)	S. Typhimurium 305	RTRH meal	Seeding 48H at 3±2°C	/	1-2-1-1-5	2,0	+	+	+	+	1	b
2018	1009	Paupiette de saumon sauce beurre citron	RTRH (salmon)	S. Typhimurium 305	RTRH meal	Seeding 48H at 3±2°C	/	1-2-1-1-5	2,0	+	+	+	+	1	b
2018	1010	Nem crabe crevette	RTRH (seafood)	S. Typhimurium 305	RTRH meal	Seeding 48H at 3±2°C	/	1-2-1-1-5	2,0	+	+	+	+	1	b
2018	2098	Lasagnes à la bolognaise	RTRH (lasagnas)	S. Enteritidis Ad2294	Beef	Seeding 48H at 3±2°C	/	3-3-1-2-0	1,8	+	+	+	+	1	b
2018	2099	Couscous	RTRH (couscous)	S. Enteritidis 2532	Ham	Seeding 48H at 3±2°C	/	2-1-2-2-4	2,2	+	+	+	+	1	b
2018	2100	Moussaka	RTRH (moussaka)	S. Enteritidis Ad2294	Beef	Seeding 48H at 3±2°C	/	3-3-1-2-0	1,8	+	+	+	+	1	b
2018	791	Filets de harengs doux fumés aux aromates	Smoked fish	S. SaintPaul F31	Fish fillet	Seeding 48H at 3±2°C	/	2-1-2-0-1	1,2	-	-	-	-	1	c
2018	792	Mini tranches de truite fumée	Smoked fish	S. Braendenburg Ad351	Seafood cocktail	Seeding 48H at 3±2°C	/	0-2-1-2-0	1,0	+	+	+	+	1	c
2018	793	Filet de maquereaux fumés au bois de hêtre au poivre	Smoked fish	S. Derby F81	Shellfish	Seeding 48H at 3±2°C	/	0-0-1-0-1	0,4	+	+	+	+	1	c
2018	2101	Carpaccio basilic	Carpaccio	S. Enteritidis Ad2294	Beef	Seeding 48H at 3±2°C	/	3-3-1-2-0	1,8	+	+	+	+	1	c
2018	2102	Carpaccio citron basilic	Carpaccio	S. Enteritidis Ad2294	Beef	Seeding 48H at 3±2°C	/	3-3-1-2-0	1,8	+	+	+	+	1	c
2018	2395	Carpaccio pur boeuf citron basilic	Carpaccio	S. Enteritidis Ad2295	Beef	Seeding 48H at 3±2°C	/	3-1-2-0-0	1,2	+	+	+	+	1	c
2018	2396	Carpaccio pistou basilic	Carpaccio	S. Enteritidis Ad2295	Beef	Seeding 48H at 3±2°C	/	3-1-2-0-0	1,2	+	+	+	+	1	c
2018	2397	Magret de canard séché	Smoked duck	S. Regent 328	Duck	Seeding 48H at 3±2°C	/	2-3-1-2-1	1,8	+	+	+	+	1	c
2018	2398	Magret de canard fumé au bois de hêtre	Smoked duck	S. Regent 328	Duck	Seeding 48H at 3±2°C	/	2-3-1-2-1	1,8	+	+	+	+	1	c
2018	2399	Filet de harengs fumés	Marinated fish fillet	S. Indiana Ad1409	Marinated fish	Seeding 48H at 3±2°C	/	2-3-1-1-1	1,6	+	+	+	+	1	c
2018	2400	Filet d'anchois marinés	Marinated fish fillet	S. Indiana Ad1409	Marinated fish	Seeding 48H at 3±2°C	/	2-3-1-1-1	1,6	-	-	-	-	1	c
2018	2401	Salami	Salami	S. Infantis 288	Pork	Seeding 48H at 3±2°C	/	3-0-0-3-0	1,2	+	+	+	+	2	c
2018	2402	Salami	Salami	S. Bredeney 243	Sausage	Seeding 48H at 3±2°C	/	1-1-2-1-1	1,2	+	+	+	+	2	c



Date of analysis	N° Sample	Product (French name)	Product	Artificial contaminations (food, feed and environmental samples)						Global result				Category	Type
				Strain	Origin	Injury protocol	Injury measurement	Inoculation level/sample		Bio-Rad CFX96	ABS 7500	Agilent MX3005P	Roche LightCycler 480 II		
								Enumeration	Mean						
2018	2403	Bacon	Bacon	S. Infantis 288	Pork	Seeding 48H at 3±2°C	/	3-0-0-3-0	1,2	+	+	+	+	2	c
2018	2404	Filet de bacon	Bacon	S. Agona 4869	Sausage	Seeding 48H at 3±2°C	/	1-2-2-4-1	2,0	+	+	+	+	2	c
2018	2405	Chorizo doux	Chorizo	S. Bredeney 243	Sausage	Seeding 48H at 3±2°C	/	1-1-2-1-1	1,2	+	+	+	+	2	c
2018	2406	Chorizo fort	Chorizo	S. Agona 4869	Sausage	Seeding 48H at 3±2°C	/	1-2-2-4-1	2,0	+	+	+	+	2	c
2018	2407	Chair à saucisse	Sausages	S. Agona 4869	Sausage	Seeding 48H at 3±2°C	/	1-2-2-4-1	2,0	+	+	+	+	2	c
2018	2408	Chair à saucisse	Sausages	S. Bredeney 243	Sausage	Seeding 48H at 3±2°C	/	1-1-2-1-1	1,2	+	+	+	+	2	c
2018	2275	Paprika doux	Spice (paprika)	S. Caracas Ad2322	Vegetables	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	<1,7	-	-	-	-	3	a
2018	2276	Cumin moulu	Spice (cumin)	S. Caracas Ad2322	Vegetables	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	<1,7	-	-	-	-	3	a
2018	2277	Thym	Herb (thyme)	S. Caracas Ad2322	Vegetables	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	<1,7	-	-	-	-	3	a
2018	2278	Basilic	Herb (basil)	S. Havana Ad2728	Vegetables	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	2,6	-	-	-	-	3	a
2018	2279	Origan	Spice (oregano)	S. Virchow F276	Curry	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1,6	-	-	-	-	3	a
2018	2280	Coriandre moulue	Spice (coriander)	S. Havana Ad2728	Vegetables	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	2,6	-	-	-	-	3	a
2018	2281	Cannelle moulue	Spice (cinnamon)	S. Virchow F276	Curry	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1,6	-	-	-	-	3	a
2018	2282	Piment fort moulu	Spice (chili)	S. Virchow F276	Curry	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1,6	-	-	-	-	3	a
2018	2283	Curcuma moulu	Spice (curcuma)	S. Virchow F276	Curry	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1,6	-	-	-	-	3	a
2018	2284	Pastille chocolat noir (75% cacao)	Dark chocolate pellet	S. Typhimurium Ad1682	Chocolate	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	2,0	-	-	-	-	3	a
2018	2285	Pastille chocolat noir (65% cacao)	Dark chocolate pellet	S. Typhimurium Ad2034	Cocoa beans	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	2,2	+	+	+	+	3	a
2018	2286	Poudre de cacao (100% cacao)	Cocoa powder	S. Typhimurium Ad1682	Chocolate	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	2,0	+	+	+	+	3	a
2018	2287	Chocolat en poudre (32% cacao)	Cocoa powder	S. Typhimurium Ad2034	Cocoa beans	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	2,2	+	+	+	+	3	a
2018	2288	Poudre de cacao non sucré (100% cacao)	Savoury cocoa powder	S. Typhimurium Ad1682	Chocolate	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	2,0	-	-	-	-	3	a
2018	2289	Fèves cacao	Cocoa bean	S. Typhimurium Ad2034	Cocoa beans	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	2,2	-	-	-	-	3	a
2018	3267	Ciboulette tubulaire	Chive	S. Livingstone Ad2566	Vegetables	Spiking HT 8min at 56°C	3,48	2-4-3-4-5	3,6	-	-	-	-	3	a
2018	3268	Estragon	Tarragon	S. Livingstone Ad2566	Vegetables	Spiking HT 8min at 56°C	3,48	2-4-3-4-5	3,6	+	+	+	+	3	a
2018	3269	Origan	Oregano	S. Livingstone Ad2566	Vegetables	Spiking HT 8min at 56°C	3,48	2-4-3-4-5	3,6	+	+	+	+	3	a
2018	3270	Sarriette	Savory	S. Virchow Ad2569	Vegetables	Spiking HT 8min at 56°C	0,67	5-6-9-7-8	7,0	+	+	+	+	3	a
2018	3271	Romarin	Romarin	S. Virchow Ad2569	Vegetables	Spiking HT 8min at 56°C	0,67	5-6-9-7-8	7,0	+	+	+	+	3	a
2018	3272	Persil	Parsley	S. Havana Ad2728	Vegetables	Spiking HT 8min at 56°C	0,91	3-4-5-5-4	4,2	+	+	+	+	3	a
2018	3273	Gingembre	Ginger	S. Virchow F276	Spices	Spiking HT 8min at 56°C	2,13	12-8-8-8-8	8,8	+	+	+	+	3	a
2018	3274	Colombo	Colombo	S. Virchow F276	Spices	Spiking HT 8min at 56°C	2,13	12-8-8-8-8	8,8	-	-	-	-	3	a
2018	3275	Céleri	Celery	S. Caracas Ad2322	Spices	Spiking HT 8min at 56°C	2,68	12-10-9-8-17	11,2	-	-	-	-	3	a
2018	3530	Cannelle moulue	Cinnamon	S. Infantis Ad1646	Compost	Spiking HT 8min at 56°C	2,65	8-7-3-4-6	5,6	-	-	-	-	3	a
2018	3531	Coriandre moulue	Coriander	S. Infantis Ad1646	Compost	Spiking HT 8min at 56°C	2,65	8-7-3-4-6	5,6	-	-	-	-	3	a
2018	3532	Thym	Thyme	S. Infantis Ad1646	Compost	Spiking HT 8min at 56°C	2,65	8-7-3-4-6	5,6	+	+	+	+	3	a
2018	1217	Lait infantile en poudre avec probiotiques (Bifidobactéries <10UFC/g)	Infant formula with probiotics (<10 CFU/g)	S. Typhimurium Ad2034	Vegetables	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0,2	-	-	-	-	3	b

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				Strain	Origin	Injury protocol	Injury measurement	Inoculation level/sample		Bio-Rad CFX96	ABS 7500	Agilent MX3005P	Roche LightCycler 480 II		
								Enumeration	Mean						
2018	1218	Lait infantile en poudre avec probiotiques ( <i>Lactobacillus reuteri</i> DSM17938 1,4.10 <sup>6</sup> UFC/g)	Infant formula with probiotics ( <i>Lactobacillus reuteri</i> DSM17938 1,4.10 <sup>6</sup> CFU/g)	S. Typhimurium Ad2034	Vegetables	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0,2	+	+	+	+	3	b
2018	1219	Lait infantile en poudre avec probiotiques ( <i>B. lactis</i> 2,5.10 <sup>6</sup> UFC/g)	Infant formula with probiotics ( <i>B. lactis</i> 2,5.10 <sup>6</sup> CFU/g)	S. Montevideo 604	Raw milk	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	3,3	+	+	+	+	3	b
2018	1220	Lait infantile en poudre avec probiotiques ( <i>Lactobacillus fermentum</i> CECT5716 3,5.10 <sup>2</sup> UFC/g)	Infant formula with probiotics ( <i>Lactobacillus fermentum</i> CECT5716 3,5.10 <sup>2</sup> CFU/g)	S. Montevideo 604	Raw milk	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	3,3	+	+	+	+	3	b
2018	1221	Lait infantile en poudre avec probiotiques ( <i>Lactobacillus fermentum</i> CECT5716 <10UFC/g)	Infant formula with probiotics ( <i>Lactobacillus fermentum</i> CECT5716 <10CFU/g)	S. Anatum Ad1167	Milk products	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	3,4	+	+	+	+	3	b
2018	1222	Céréales avec probiotiques saveur noisette biscuité ( <i>B. lactis</i> 8,9.10 <sup>4</sup> UFC/g)	Cereals with probiotics ( <i>B. lactis</i> 8,9.10 <sup>4</sup> CFU/g)	S. Oranienburg Ad1724	Infant cereals	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1,3	+	+	+	+	3	b
2018	1223	Céréales avec probiotiques saveur 5 céréales ( <i>B. lactis</i> 1,1.10 <sup>5</sup> UFC/g)	Cereals with probiotics ( <i>B. lactis</i> 1,1.10 <sup>5</sup> CFU/g)	S. Oranienburg Ad1724	Infant cereals	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1,3	+	+	+	+	3	b
2018	1224	Céréales avec probiotiques saveur biscuité ( <i>B. lactis</i> 1,1.10 <sup>5</sup> UFC/g)	Cereals with probiotics ( <i>B. lactis</i> 1,1.10 <sup>5</sup> CFU/g)	S. Caracas Ad2322	Vegetables	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	<0,4	+	+	+	+	3	b
2018	1225	Céréales avec probiotiques saveur vanille ( <i>B. lactis</i> 1,4.10 <sup>6</sup> UFC/g)	Cereals with probiotics ( <i>B. lactis</i> 1,4.10 <sup>6</sup> CFU/g)	S. Caracas Ad2322	Vegetables	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	<0,4	+	+	+	+	3	b
2018	1226	Céréales avec probiotiques saveur cacao ( <i>B. lactis</i> 2,8.10 <sup>6</sup> UFC/g)	Cereals with probiotics ( <i>B. lactis</i> 2,8.10 <sup>6</sup> CFU/g)	S. Oranienburg Ad1724	Infant cereals	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1,3	-	-	-	-	3	b
2018	2929	Lait infantile en poudre avec probiotiques ( <i>Bifidobacterium infantis</i> / <i>Lactobacillus rhamnosus</i> 2,4.10 <sup>6</sup> UFC/g)	Infant formula with probiotics ( <i>Bifidobacterium infantis</i> / <i>Lactobacillus rhamnosus</i> 2,4.10 <sup>6</sup> CFU/g)	S. Anatum Ad298	Milk powder	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	<0,8	-	-	-	-	3	b
2018	2930	Lait infantile en poudre avec probiotiques ( <i>Lactobacillus fermentum hereditum</i> CECT5716 5,7.10 <sup>5</sup> UFC/g)	Infant formula with probiotics ( <i>Lactobacillus fermentum hereditum</i> CECT5716 5,7.10 <sup>5</sup> CFU/g)	S. Typhimurium 4	Milk powder	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	<1,0	-	-	-	-	3	b
2018	2931	Céréales avec probiotiques saveur miel ( <i>B. lactis</i> 5,6.10 <sup>5</sup> UFC/g)	Cereals with probiotics ( <i>B. lactis</i> 5,6.10 <sup>5</sup> CFU/g)	S. Cerro Ad2707	Milk powder	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1,0	+	+	+	+	3	b
2018	2932	Céréales avec probiotiques saveur caramel ( <i>B. lactis</i> 6,7.10 <sup>5</sup> UFC/g)	Cereals with probiotics ( <i>B. lactis</i> 6,7.10 <sup>5</sup> CFU/g)	S. Anatum Ad298	Milk powder	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	<0,8	-	-	-	-	3	b
2018	1858	Coule de blanc d'œuf pasteurisé	Pasteurized white liquid egg	S. Typhimurium 13	Pasteurised liquid egg	Seeding 48H at 3±2°C	/	5-4-1-3-1	2,8	+	+	+	+	3	c
2018	1859	Coule de blanc d'œuf pasteurisé	Pasteurized white liquid egg	S. Infantis 14	Pasteurised liquid egg	Seeding 48H at 3±2°C	/	4-3-2-3-2	2,8	+	+	+	+	3	c
2018	1860	Coule d'œuf entier liquide pasteurisé	Pasteurized whole liquid egg	S. Typhimurium 13	Pasteurised liquid egg	Seeding 48H at 3±2°C	/	5-4-1-3-1	2,8	+	+	+	+	3	c
2018	1861	Coule d'œuf entier liquide pasteurisé	Pasteurized whole liquid egg	S. Infantis 14	Pasteurised liquid egg	Seeding 48H at 3±2°C	/	4-3-2-3-2	2,8	+	+	+	+	3	c

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								Enumeration	Mean						
2018	2052	Poudre de jaune d'œuf	Yellow egg powder	S. Livingstone E1	Egg powder	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0,8	-	-	-	-	3	c
2018	2053	Poudre d'œuf entier	Whole egg powder	S. Livingstone E1	Egg powder	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0,8	-	-	-	-	3	c
2018	2054	Poudre de blanc d'œuf	White egg powder	S. Livingstone E1	Egg powder	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0,8	+	+	+	+	3	c
2018	2055	Poudre de jaune d'œuf pasteurisée	Pasteurized yellow egg powder	S. Livingstone E1	Egg powder	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0,8	+	+	+	+	3	c
2018	2056	Poudre d'œuf entier	Whole egg powder	S. Livingstone E1	Egg powder	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0,8	-	-	-	-	3	c
2018	2933	Poudre de jaune d'œuf pasteurisée	Yellow egg powder	S. Enteritidis 10	Egg powder	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1,7	-	-	-	-	3	c
2018	2934	Poudre de blanc d'œuf	White egg powder	S. Enteritidis 10	Egg powder	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1,7	-	-	-	-	3	c
2018	2935	Poudre de blanc d'œuf	Egg white powder	S. Enteritidis 10	Egg powder	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1,7	-	-	-	-	3	c
2018	2936	Poudre de jaune d'œuf	Yellow egg powder	S. Enteritidis 10	Egg powder	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	1,7	-	-	-	-	3	c
2018	3525	Poudre de blanc d'œuf	White egg powder	S. Mbandaka 81	Egg product	Spiking HT 8min at 56°C	1,74	1-5-5-1-3	3,0	+	+	+	+	3	c
2018	3526	Poudre de jaune d'œuf	Yellow egg powder	S. Mbandaka 81	Egg product	Spiking HT 8min at 56°C	1,74	1-5-5-1-3	3,0	+	+	+	+	3	c
2018	3527	Poudre de jaune d'œuf	Yellow egg powder	S. Enteritidis 465	Egg product	Spiking HT 8min at 56°C	1,82	1-2-1-4-4	2,4	+	+	+	+	3	c
2018	3528	Poudre de jaune d'œuf pasteurisée	Yellow egg powder	S. Enteritidis 465	Egg product	Spiking HT 8min at 56°C	1,82	1-2-1-4-4	2,4	+	+	+	+	3	c
2018	3529	Poudre de jaune d'œuf pasteurisée	Yellow egg powder	S. Mbandaka 81	Egg product	Spiking HT 8min at 56°C	1,74	1-5-5-1-3	3,0	+	+	+	+	3	c
2018	2032	Croquettes chien (poulet, pomme, riz, carotte)	Dog croquettes	S. Senftenberg Ad2418	Feed product	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0,8	-	-	-	-	4	a
2018	2033	Croquettes chat (poulet, canard et légumes)	Cat croquettes	S. Senftenberg Ad2418	Feed product	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0,8	-	-	-	-	4	a
2018	2034	Croquettes chien (poulet orge)	Dog croquettes	S. Senftenberg Ad2418	Feed product	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0,8	-	-	-	-	4	a
2018	2035	Croquettes chat (saumon et orge)	Cat croquettes	S. Senftenberg Ad2418	Feed product	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0,8	-	-	-	-	4	a
2018	2036	Granulés complet cochon d'Inde	Guinea pig pellet	S. Senftenberg Ad2418	Feed product	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0,8	-	-	-	-	4	a
2018	2037	Granulés cochon d'Inde	Guinea pig pellet	S. Kegougou Ad2419	Feed product	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	<0,7	-	-	-	-	4	a
2018	2038	Graines oiseaux	Bird feed	S. Kegougou Ad2419	Feed product	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	<0,7	-	-	-	-	4	a
2018	2039	Granulés pour lapins nains	Rabbit pellets	S. Kegougou Ad2419	Feed product	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	<0,7	-	-	-	-	4	a
2018	2040	Granulés vaches laitières	Cow pellets	S. Kegougou Ad2419	Feed product	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	<0,7	+	+	+	+	4	a
2018	2041	Granulés cheval	Horse pellets	S. Kegougou Ad2419	Feed product	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	<0,7	-	-	-	-	4	a
2018	2416	Croquettes pour chiens (poulet légumes)	Dog pellets	S. Braenderup F286	Feed product	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0,9	-	-	-	-	4	a
2018	2417	Croquettes pour chats (boeuf poulet légumes)	Pellets for cats	S. Braenderup F286	Feed product	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0,9	-	-	-	-	4	a
2018	2418	Croquettes pour chat (bœuf, volaille, poisson)	Pellets for cats	S. Agona AOOV038	Feed product	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	3,0	-	-	-	-	4	a
2018	2419	Graines menu complet pour canaris	Bird seed	S. Montevideo Ad1503	Feed product	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0,8	-	-	-	-	4	a

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								Enumeration	Mean						
2018	2420	Granulés pour lapins nains au thym	Rabbit pellets	S. Agona AOOV038	Feed product	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	3,0	+	+	+	+	4	a
2018	2421	Granulés pour cochon d'Inde	Guinea pig pellets	S. Montevideo Ad1503	Feed product	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0,8	-	-	-	-	4	a
2018	2422	Granulés pour rongeurs	Rodent pellets	S. Agona AOOV038	Feed product	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	3,0	+	+	+	+	4	a
2018	2423	Graines pour poules pondeuses	Chicken feed	S. Montevideo Ad1503	Feed product	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0,8	-	-	-	-	4	a
2018	2424	Granulés pour ruminants	Ruminal pellets	S. Agona AOOV038	Feed product	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	3,0	-	-	-	-	4	a
2018	2425	Granulés pour vaches laitières	Cow pellets	S. Montevideo Ad1503	Feed product	Seeding lyophilized strain 2 weeks at ambient temperature	/	/	0,8	-	-	-	-	4	a
2018	3276	Croquette pour chat (au bœuf et poulet)	Croquettes for cats	S. Livingstone F104	Feed product	Spiking HT 8min at 56°C	0,96	1-9-3-4-5	4,4	-	-	-	-	4	a
2018	3277	Croquette pour chien (au bœuf)	Croquettes for dog	S. Derby 630	Feed product	Spiking HT 8min at 56°C	0,93	3-8-7-7-4	5,8	+	+	+	+	4	a
2018	3278	Croquette pour chien (bœuf, carotte, pomme, riz)	Croquettes for dog	S. Noya Ad2715	Feed product	Spiking HT 8min at 56°C	1,62	3-5-4-1-6	3,8	+	+	+	+	4	a
2018	3279	Croquette pour chien (saumon/avoine)	Croquettes for dog	S. Llandoff Ad2726	Feed product	Spiking HT 8min at 56°C	0,63	7-5-7-2-3	4,8	+	+	+	+	4	a
2018	3280	Croquette pour chien (junior)	Croquettes for dog	S. Livingstone F104	Feed product	Spiking HT 8min at 56°C	0,96	1-9-3-4-5	4,4	+	+	+	+	4	a
2018	3281	Croquette pour chien (au bœuf)	Croquettes for dog	S. Derby 630	Feed product	Spiking HT 8min at 56°C	0,93	3-8-7-7-4	5,8	+	+	+	+	4	a
2018	3282	Granulé pour porc	Pork feed	S. Noya Ad2715	Feed product	Spiking HT 8min at 56°C	1,62	3-5-4-1-6	3,8	+	+	+	+	4	a
2018	5380	Alimentation cheval	Horse feed	S. Kedougou Ad1502	Feed product	Spiking HT 8min at 56°C	3,03	5-9-3-7-10	6,8	-	-	-	-	4	a
2018	5381	Aliment bovin	Bovine feed	S. Montevideo Ad2421	Feed product	Spiking HT 8min at 56°C	1,97	5-7-3-4-2	4,2	+	+	+	+	4	a
2018	5382	Aliment ovine	Ovine feed	S. Idikan Ad2567	Feed product	Spiking HT 8min at 56°C	2,37	3-1-2-2-5	2,6	+	+	+	+	4	a
2018	5383	Croquettes pour chien	Croquettes for dog	S. Kedougou Ad1502	Feed product	Spiking HT 8min at 56°C	3,03	5-9-3-7-10	6,8	+	+	+	+	4	a
2018	5384	Croquettes pour chat	Croquettes for cat	S. Kedougou Ad1502	Feed product	Spiking HT 8min at 56°C	3,03	5-9-3-7-10	6,8	+	+	+	+	4	a
2018	5385	Croquettes pour chat	Croquettes for cat	S. Montevideo Ad2421	Feed product	Spiking HT 8min at 56°C	1,97	5-7-3-4-2	4,2	+	+	+	+	4	a
2018	5386	Croquettes pour chat	Croquettes for cat	S. Idikan Ad2567	Feed product	Spiking HT 8min at 56°C	2,37	3-1-2-2-5	2,6	+	+	+	+	4	a
2018	993	Terrine pour chat à la volaille	Terrine (for cat)	S. Infantis 179	Feed product	Seeding 48H at 3±2°C	/	10-4-11-15-14	10,8	+	+	+	+	4	b
2018	994	Terrine pour chien au bœuf	Terrine (for dog)	S. Derby Ad1878	Feed product	Seeding 48H at 3±2°C	/	1-2-2-0-0	1,0	+	+	+	+	4	b
2018	995	Bouchées pour chat à la volaille et aux légumes	Terrine (for cat)	S. Derby Ad1878	Feed product	Seeding 48H at 3±2°C	/	1-2-2-0-0	1,0	-	-	-	-	4	b
2018	996	Bouchées pour chien à la volaille et aux carottes	Terrine (for dog)	S. Livingstone F105	Feed product	Seeding 48H at 3±2°C	/	3-3-7-4-4	4,2	+	+	+	+	4	b
2018	997	Saucisson pour chien	Sausage for dog	S. Infantis 179	Feed product	Seeding 48H at 3±2°C	/	10-4-11-15-14	10,8	-	-	-	-	4	b
2018	998	Saucisson pour chien	Sausage for dog	S. Livingstone F105	Feed product	Seeding 48H at 3±2°C	/	3-3-7-4-4	4,2	+	+	+	+	4	b
2018	999	Viande fraîche pour animaux	Raw meat for dog	S. Derby Ad1878	Feed product	Seeding 48H at 3±2°C	/	1-2-2-0-0	1,0	+	+	+	+	4	b
2018	1000	Viande fraîche pour animaux	Raw meat for dog	S. Livingstone F105	Feed product	Seeding 48H at 3±2°C	/	3-3-7-4-4	4,2	+	+	+	+	4	b
2018	2114	Terrine pour chien à la volaille	Dog terrine	S. Braenderup F286	Feed product	Seeding 48H at 3±2°C	/	2-4-1-3-4	2,8	+	+	+	+	4	b
2018	2115	Terrine pour chat au bœuf	Cat terrine	S. Braenderup F286	Feed product	Seeding 48H at 3±2°C	/	2-4-1-3-4	2,8	+	+	+	+	4	b
2018	3533	Terrine pour chat (au lapin)	Terrine for cat	S. Menston Ad2729	Feed product	Spiking HT 8min at 56°C	1,82	6-1-0-4-8	3,8	+	+	+	+	4	b
2018	3534	Terrine pour chien (agneau et légumes)	Terrine for dog	S. Infantis 179	Feed product	Spiking HT 8min at 56°C	0,87	3-6-4-0-6	3,8	+	+	+	+	4	b
2018	3535	Saucisson pour chien	Sausage for dog	S. Menston Ad2729	Feed product	Spiking HT 8min at 56°C	1,82	6-1-0-4-8	3,8	+	+	+	+	4	b
2018	3536	Saucisson pour chien	Sausage for dog	S. Infantis 179	Feed product	Spiking HT 8min at 56°C	0,87	3-6-4-0-6	3,8	+	+	+	+	4	b

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								Enumeration	Mean						
2018	5334	Terrine pour chien au bœuf	Terrine for dog	S. Poona Ad2330	Feed product	Seeding 48H at 3±2°C	/	6-3-6-5-7	5,4	+	+	+	+	4	b
2018	5335	Terrine pour chien au bœuf	Terrine for dog	S. Infantis Ad2712	Feed product	Seeding 48H at 3±2°C	/	0-5-7-1-1	2,8	+	+	+	+	4	b
2018	5336	Saucisson pour chien au bœuf	Sausage for dog	S. Poona Ad2330	Feed product	Seeding 48H at 3±2°C	/	6-3-6-5-7	5,4	-	-	-	-	4	b
2018	5337	Saucisson pour chien au bœuf	Sausage for dog	S. Infantis Ad2712	Feed product	Seeding 48H at 3±2°C	/	0-5-7-1-1	2,8	-	-	-	-	4	b
2018	5501	Saucisson pour chien	Sausage for dog	S. Mbandaka Ad2647	Feed product	Seeding 48H at 3±2°C	/	2-0-1-2-2	1,4	+	+	+	+	4	b
2018	5502	Viande bovine pour animaux	Raw meat for animals	S. Mbandaka Ad2647	Feed product	Seeding 48H at 3±2°C	/	2-0-1-2-2	1,4	+	+	+	+	4	b
2018	2237	Résidu (production pâté de lapin)	Residues (Pâté production)	S. Rissen Ad2510	Environment	Seeding 48H at 3±2°C	/	1-4-1-0-1	1,4	+	+	+	+	5	a
2018	2238	Résidu (production pâté de lapin)	Residues (Pâté production)	S. Typhimurium Ad1070	Environment	Seeding 48H at 3±2°C	/	2-1-0-1-2	1,2	+	+	+	+	5	a
2018	2474	Déchet cou de volaille	Residues (poultry environment)	S. Kottbus 1	Poultry environment	Seeding 48H at 3±2°C	/	4-11-5-5-1	5,2	-	-	-	-	5	a
2018	3741	Chutes découpe de bœuf au sol	Residues (beef environment)	S. Infantis Ad1646	Environment	Seeding 48H at 3±2°C	/	1-3-0-4-6	2,8	+	+	+	+	5	a
2018	3742	Chutes découpe de bœuf au sol	Residues (beef environment)	S. Ovakam Ad1647	Environment	Seeding 48H at 3±2°C	/	2-1-7-3-3	3,2	+	+	+	+	5	a
2018	3743	Chutes découpe de porc au sol	Residues (pork environment)	S. Ovakam Ad1647	Environment	Seeding 48H at 3±2°C	/	2-1-7-3-3	3,2	+	+	+	+	5	a
2018	3744	Chutes découpe de porc au sol	Residues (pork environment)	S. Mbandaka Ad1723	Environment	Seeding 48H at 3±2°C	/	0-0-0-0-1	0,2	+	+	+	+	5	a
2018	3745	Chiffonnette poussière (environnement volaille)	Dust wipe (poultry environment)	S. Infantis Ad1646	Environment	Seeding 48H at 3±2°C	/	1-3-0-4-6	2,8	+	+	+	+	5	a
2018	3746	Chiffonnette poussière (environnement volaille)	Dust wipe (poultry environment)	S. Ovakam Ad1647	Environment	Seeding 48H at 3±2°C	/	2-1-7-3-3	3,2	+	+	+	+	5	a
2018	4265	Poussière (environnement laiterie)	Dusts (dairy industry)	S. Tennessee AOOE006	Dust	Spiking lyophilization	0,56	5-2-3-5-7	4,4	+	+	+	+	5	a
2018	4266	Poussière (environnement laiterie)	Dusts (dairy industry)	S. Tennessee AOOE006	Dust	Spiking lyophilization	0,56	5-2-3-5-7	4,4	+	+	+	+	5	a
2018	4267	Poussière (environnement laiterie)	Dusts (dairy industry)	S. Tennessee AOOE006	Dust	Spiking lyophilization	0,56	5-2-3-5-7	4,4	+	+	+	+	5	a
2018	4268	Poussière (environnement laiterie)	Dusts (dairy industry)	S. Heidelberg AOOE005	Dust	Spiking lyophilization	0,52	5-4-7-6-5	5,4	+	+	+	+	5	a
2018	4269	Poussière (environnement laiterie)	Dusts (dairy industry)	S. Heidelberg AOOE005	Dust	Spiking lyophilization	0,52	5-4-7-6-5	5,4	+	+	+	+	5	a
2018	2239	Eau de process (production pâté de lapin)	Process water (pâté production)	S. Typhimurium Ad1070	Environment	Seeding 48H at 3±2°C	/	2-1-0-1-2	1,2	+	+	+	+	5	b
2018	2240	Eau de process (production pâté de lapin)	Process water (pâté production)	S. Derby SD43	Environment	Seeding 48H at 3±2°C	/	2-1-3-2-1	1,8	+	+	+	+	5	b
2018	2475	Eau de lavage viande de poulet	Cleaning water (poultry environment)	S. Blockley Ad923	Poultry environment	Seeding 48H at 3±2°C	/	4-2-4-3-0	2,6	-	-	-	-	5	b
2018	2476	Eau de rinçage découpe de poulet	Cleaning water (poultry environment)	S. Blockley Ad923	Poultry environment	Seeding 48H at 3±2°C	/	4-2-4-3-0	2,6	+	+	+	+	5	b
2018	2479	Eau de rinçage (environnement produits de la mer)	Cleaning water (seafood environment)	S. Anatum Ad2727	Seafood environment	Seeding 48H at 3±2°C	/	6-5-9-2-7	5,8	+	+	+	+	5	b
2018	3747	Eau en cours de process (production charcuterie)	Process water	S. Mbandaka Ad1723	Environment	Seeding 48H at 3±2°C	/	0-0-0-0-1	0,2	-	-	-	-	5	b
2018	3748	Eau de rinçage (production charcuterie)	Cleaning water	S. Ovakam Ad1647	Environment	Seeding 48H at 3±2°C	/	2-1-7-3-3	3,2	+	+	+	+	5	b

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								Enumeration	Mean						
2018	4257	Eau de process (pâtisserie)	Process water	S. Schwarzengrund Ad2333	Egg product environment	Seeding 48H at 3±2°C	/	5-4-2-2-5	3,6	+	+	+	+	5	b
2018	4258	Eau de process (pâtisserie)	Process water	S. Livingstone Ad2702	Dairy environment	Seeding 48H at 3±2°C	/	2-3-3-5-1	2,8	+	+	+	+	5	b
2018	4259	Eau de lavage sciage (environnement volaille)	Cleaning water (poultry environment)	S. Havana Ad930	Poultry environment	Seeding 48H at 3±2°C	/	3-7-7-4-3	4,8	+	+	+	+	5	b
2018	4260	Eau de lavage caniveau (environnement volaille)	Cleaning water (poultry environment)	S. Havana Ad930	Poultry environment	Seeding 48H at 3±2°C	/	3-7-7-4-3	4,8	+	+	+	+	5	b
2018	4261	Eau de lavage sciage (environnement volaille)	Cleaning water (poultry environment)	S. Amsterdam Ad1766	Poultry environment	Seeding 48H at 3±2°C	/	1-2-3-3-5	2,8	+	+	+	+	5	b
2018	4262	Eau de lavage caniveau (environnement volaille)	Cleaning water (poultry environment)	S. Amsterdam Ad1766	Poultry environment	Seeding 48H at 3±2°C	/	1-2-3-3-5	2,8	+	+	+	+	5	b
2018	2241	Ecouvillon hâchoir (production pâté de lapin)	Swab (chopper pâté production)	S. Rissen Ad2510	Environment	Seeding 48H at 3±2°C	/	1-4-1-0-1	1,4	+	+	+	+	5	c
2018	2242	Ecouvillon pousoir (production pâté de lapin)	Swab (pâté production)	S. Typhimurium Ad1070	Environment	Seeding 48H at 3±2°C	/	2-1-0-1-2	1,2	+	+	+	+	5	c
2018	2243	Eponge paillasse (production pâté de lapin)	Sponge (pâté production)	S. Rissen Ad2510	Environment	Seeding 48H at 3±2°C	/	1-4-1-0-1	1,4	+	+	+	+	5	c
2018	2244	Eponge trémis pousoir (production pâté de lapin)	Sponge (pâté production)	S. Derby SD43	Environment	Seeding 48H at 3±2°C	/	2-1-3-2-1	1,8	+	+	+	+	5	c
2018	2471	Chiffonnette sortie après saignée (environnement volaille)	Wipe (poultry environment)	S. Kottbus 1	Poultry environment	Seeding 48H at 3±2°C	/	4-11-5-5-1	5,2	+	+	+	+	5	c
2018	2472	Chiffonnette goutière éviscération (environnement volaille)	Wipe (poultry environment)	S. Kottbus 1	Poultry environment	Seeding 48H at 3±2°C	/	4-11-5-5-1	5,2	+	+	+	+	5	c
2018	2473	Chiffonnette crochet chaîne (environnement volaille)	Wipe (poultry environment)	S. Blockley Ad923	Poultry environment	Seeding 48H at 3±2°C	/	4-2-4-3-0	2,6	+	+	+	+	5	c
2018	2477	Chiffonnette récipient broyage (environnement bovin)	Wipe (beef environment)	S. Kedougou Ad929	Beef environment	Seeding 48H at 3±2°C	/	3-4-0-2-2	2,2	+	+	+	+	5	c
2018	2478	Chiffonnette table préparation (environnement bovin)	Wipe (beef environment)	S. Kedougou Ad929	Beef environment	Seeding 48H at 3±2°C	/	3-4-0-2-2	2,2	-	-	-	-	5	c
2018	2480	Chiffonnette pousoir (environnement produits de la mer)	Wipe (seafood environment)	S. Anatum Ad2727	Seafood environment	Seeding 48H at 3±2°C	/	6-5-9-2-7	5,8	-	-	-	-	5	c
2018	2481	Chiffonnette (environnement produits de la mer)	Wipe (seafood environment)	S. Anatum Ad2727	Seafood environment	Seeding 48H at 3±2°C	/	6-5-9-2-7	5,8	-	-	-	-	5	c
2018	3749	Chiffonnette surface après nettoyage et désinfection (production charcuterie)	Wipe after cleaning	S. Infantis Ad1646	Environment	Seeding 48H at 3±2°C	/	1-3-0-4-6	2,8	+	+	+	+	5	c
2018	3750	Eponge matériel après nettoyage et désinfection (production charcuterie)	Sponge after cleaning	S. Ovakam Ad1647	Environment	Seeding 48H at 3±2°C	/	2-1-7-3-3	3,2	-	-	-	-	5	c
2018	4263	Chiffonnette après nettoyage et désinfection (éviscération volaille)	Wipe after cleaning (poultry environment)	S. Amsterdam Ad1766	Poultry environment	Seeding 48H at 3±2°C	/	1-2-3-3-5	2,8	-	-	-	-	5	c
2018	4264	Chiffonnette carcasse (environnement bovin)	Wipe (beef environment)	S. Kedougou Ad929	Beef environment	Seeding 48H at 3±2°C	/	2-2-1-0-2	1,4	+	+	+	+	5	c

Date of analysis	N° Sample	Product (French name)	Product	Artificial contaminations (primary production samples)						Global result				Category	Type
				Strain	Origin	Injury protocol	Injury measurement	Inoculation level/sample		Bio-Rad CFX96	ABS 7500	Agilent MX3005P	Roche LightCycler 480 II		
								Enumeration	Mean						
2018	1279	Pédichiffonnette volaille	Boot socks (poultry)	S. Mbandaka Ad1720	Poultry faeces	Seeding 24H at ambient temperature	/	0-0-0-1-2	0,6	-	-	-	-	6	a
2018	1284	Pédichiffonnette porc	Boot socks (pork)	S. Livingstone Ad2278	Pork faeces	Seeding 24H at ambient temperature	/	2-3-6-3-5	3,8	+	+	+	+	6	a
2018	1285	Fécès porc	Pork faeces	S. Livingstone Ad2278	Pork faeces	Seeding 24H at ambient temperature	/	2-3-6-3-5	3,8	+	+	+	+	6	a
2018	1286	Fécès porc	Pork faeces	S. Derby Ad1500	Pork environment	Seeding 24H at ambient temperature	/	6-2-3-12-4	5,4	+	+	+	+	6	a
2018	1289	Pédichiffonnette volaille	Boot socks (poultry)	S. Hadar 35	Poultry environment	Seeding 24H at ambient temperature	/	5-5-3-7-4	4,8	+	+	+	+	6	a
2018	1291	Fécès volaille	Poultry faeces	S. Mbandaka Ad1720	Poultry faeces	Seeding 24H at ambient temperature	/	0-0-0-1-2	0,6	-	-	-	-	6	a
2018	1292	Fécès volaille	Poultry faeces	S. Kentucky Ad1756	Poultry environment	Seeding 24H at ambient temperature	/	5-4-4-4-8	5,0	+	+	+	+	6	a
2018	1648	Fécès porc	Pork faeces	S. Derby Ad1452	Pork faeces	Seeding 24H at ambient temperature	/	2-1-2-1-2	1,6	+	+	+	+	6	a
2018	1649	Fécès porc	Pork faeces	S. Livingstone Ad2279	Pork faeces	Seeding 24H at ambient temperature	/	4-6-7-8-3	5,6	+	+	+	+	6	a
2018	1650	Pédichiffonnette porc	Boot socks (pork)	S. Livingstone Ad2279	Pork faeces	Seeding 24H at ambient temperature	/	4-6-7-8-3	5,6	+	+	+	+	6	a
2018	1653	Fécès volaille	Poultry faeces	S. Anatum Ad1108	Poultry environment	Seeding 24H at ambient temperature	/	1-3-1-3-2	2,0	+	+	+	+	6	a
2018	1654	Fécès volaille	Poultry faeces	S. Anatum Ad1108	Poultry environment	Seeding 24H at ambient temperature	/	1-3-1-3-2	2,0	+	+	+	+	6	a
2018	5519	Fécès volaille	Poultry faeces	S. Agona Ad1306	Poultry environment	Seeding 24H at ambient temperature	/	5-3-4-5-3	4,0	+	+	+	+	6	a
2018	5520	Fécès volaille	Poultry faeces	S. Agona Ad1306	Poultry environment	Seeding 24H at ambient temperature	/	5-3-4-5-3	4,0	-	-	-	-	6	a
2018	5524	Fécès volaille	Poultry faeces	S. Agona Ad1306	Poultry environment	Seeding 24H at ambient temperature	/	5-3-4-5-3	4,0	+	+	+	+	6	a
2018	5528	Fécès volaille	Poultry faeces	S. Typhimurium Ad1411	Poultry environment	Seeding 24H at ambient temperature	/	4-4-6-3-5	4,4	-	-	-	-	6	a
2018	5529	Fécès volaille	Poultry faeces	S. Typhimurium Ad1411	Poultry environment	Seeding 24H at ambient temperature	/	4-4-6-3-5	4,4	+	+	+	+	6	a
2018	5763	Pédichiffonnette (environnement volaille)	Boot sock (poultry environment)	S. Infantis Ad1404	Poultry environment	Seeding 24H at ambient temperature	/	7-7-6-4-6	6,0	+	+	+	+	6	a
2018	5764	Fécès volaille	Poultry faeces	S. Haifa Ad1727	Poultry environment	Seeding 24H at ambient temperature	/	3-1-5-5-5	3,8	+	+	+	+	6	a
2018	1278	Eau abreuvoir volaille	Water from drinker (poultry)	S. Hadar 35	Poultry environment	Seeding 24H at ambient temperature	/	5-5-3-7-4	4,8	-	-	-	-	6	b
2018	1280	Chiffonnette mangeoire volaille	Wipe (poultry feed)	S. Kentucky Ad1756	Poultry environment	Seeding 24H at ambient temperature	/	5-4-4-4-8	5,0	-	-	-	-	6	b
2018	1281	Chiffonnette mur poulailler	Wipe (poultry environment)	S. Hadar 35	Poultry environment	Seeding 24H at ambient temperature	/	5-5-3-7-4	4,8	+	+	+	+	6	b
2018	1282	Litière volaille	Poultry litter	S. Kentucky Ad1756	Poultry environment	Seeding 24H at ambient temperature	/	5-4-4-4-8	5,0	-	-	-	-	6	b
2018	1283	Eau abreuvoir porc	Water from drimkers (pork)	S. Livingstone Ad2278	Pork faeces	Seeding 24H at ambient temperature	/	2-3-6-3-5	3,8	-	-	-	-	6	b
2018	1287	Chiffonnette environnement porc	Wipe (pork environment)	S. Derby Ad1500	Pork environment	Seeding 24H at ambient temperature	/	6-2-3-12-4	5,4	+	+	+	+	6	b
2018	1288	Chiffonnette environnement porc	Wipe (pork environment)	S. Derby Ad1500	Pork environment	Seeding 24H at ambient temperature	/	6-2-3-12-4	5,4	+	+	+	+	6	b

Date of analysis	N° Sample	Product (French name)	Product	Artificial contaminations (primary production samples)						Global result				Category	Type
				Strain	Origin	Injury protocol	Injury measurement	Inoculation level/sample		Bio-Rad CFX96	ABS 7500	Agilent MX3005P	Roche LightCycler 480 II		
								Enumeration	Mean						
2018	1290	Chiffonnette grains volaille	Wipe (poultry feed)	S. Kentucky Ad1756	Poultry environment	Seeding 24H at ambient temperature	/	5-4-4-4-8	5,0	+	+	+	+	6	b
2018	1647	Eau abreuvoir porc	Water from drinker (pork)	S. Derby Ad1452	Pork faeces	Seeding 24H at ambient temperature	/	2-1-2-1-2	1,6	+	+	+	+	6	b
2018	1651	Chiffonnette paroi murale	Wipe (pork environment)	S. Derby Ad1452	Pork faeces	Seeding 24H at ambient temperature	/	2-1-2-1-2	1,6	-	-	-	-	6	b
2018	1652	Eau abreuvoir volaille	Water from drinker (poultry)	S. Anatum Ad1108	Poultry environment	Seeding 24H at ambient temperature	/	1-3-1-3-2	2,0	+	+	+	+	6	b
2018	5760	Chiffonnette fond de couvoir (environnement volaille)	Hatchery wipe (poultry environment)	S. Livingstone Ad1107	Poultry environment	Seeding 24H at ambient temperature	/	6-3-3-5-11	5,6	+	+	+	+	6	b
2018	5761	Chiffonnette fond de couvoir (environnement volaille)	Hatchery wipe (poultry environment)	S. Infantis Ad1404	Poultry environment	Seeding 24H at ambient temperature	/	7-7-6-4-6	6,0	-	-	-	-	6	b
2018	5762	Eau d'abreuvoir (environnement volaille)	Water from drinker (poultry environment)	S. Livingstone Ad1107	Poultry environment	Seeding 24H at ambient temperature	/	6-3-3-5-11	5,6	-	-	-	-	6	b
2018	5765	Eau abreuvoir (verraterie porc)	Water from drinker (pork environment)	S. Derby Ad2218	Pork environment	Seeding 24H at ambient temperature	/	2-3-3-5-2	3,0	-	-	-	-	6	b
2018	5766	Eau abreuvoir (post sevrage porc)	Water from drinker (pork environment)	S. Derby Ad2218	Pork environment	Seeding 24H at ambient temperature	/	2-3-3-5-2	3,0	+	+	+	+	6	b
2018	5767	Chiffonnette poussière (maternité porc)	Dust wipe (poultry environment)	S. Derby Ad2218	Pork environment	Seeding 24H at ambient temperature	/	2-3-3-5-2	3,0	+	+	+	+	6	b
2018	5768	Ecouvillon cloison (environnement porc)	Swab (pork environment)	S. Derby Ad2218	Pork environment	Seeding 24H at ambient temperature	/	4-4-2-5-3	3,6	-	-	-	-	6	b
2018	5769	Eau abreuvoir (environnement volaille)	Water from drinker (poultry environment)	S. Haifa Ad1727	Poultry environment	Seeding 24H at ambient temperature	/	3-1-5-5-5	3,8	+	+	+	+	6	b
2018	5770	Chiffonnette abreuvoir (environnement volaille)	Wipe (poultry environment)	S. Livingstone Ad1107	Poultry environment	Seeding 24H at ambient temperature	/	6-3-3-5-11	5,6	+	+	+	+	6	b
2018	5771	Ecouvillon perchoir (environnement volaille)	Swab (poultry environment)	S. Infantis Ad1404	Poultry environment	Seeding 24H at ambient temperature	/	5-7-7-6-4	5,8	+	+	+	+	6	b



## Appendix 5 – Sensitivity study: raw data

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

#### **Salmonella detection 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
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:	PCR inhibition
*:	DNA extract diluted (1/10)

READY-TO-EAT AND READY-TO-REHEAT FOODS																													
Date of analysis	N° Sample	Product (French name)	Product	Reference method: ISO 6579-1 ♦					Alternative method : BioChek Salmonella Species DNA Test Kit																	Category	Type		
				RVS		Mktn		Result	PCR								Confirmatory tests (ISO 6579-1)	Final result				Agreement							
				XLD	ASAP	XLD	ASAP		Bio-Rad CFX96			ABS 7500		Agilent MX3005P		Roche LightCycler 480II		Bio-Rad CFX96	ABS 7500	Agilent MX3005P	Roche LightCycler 480II	Bio-Rad CFX96	ABS 7500	Agilent MX3005P	Roche LightCycler 480II				
									Cq (FAM)	Cq (HEX)	Result	Cq (FAM)	Result	Cq (FAM)	Result	Cq (FAM)												Result	
2018	787	Terrine à la truite et aux amandes	Fish terrine	+p	+p	+p	+p	+	16,67	29,32	+	18,88	+	17,81	+	18,10	+	+	+	+	+	+	+	PA	PA	PA	PA	1	a
2018	788	Terrine aux Saint Jacques	Fish terrine	+p	+p	+p	+p	+	17,32	29,30	+	18,84	+	19,69	+	18,83	+	+	+	+	+	+	+	PA	PA	PA	PA	1	a
2018	789	Terrine crabe/homard	Fish terrine	+p	+p	+p	+p	+	13,65	29,68	+	18,07	+	19,03	+	17,73	+	+	+	+	+	+	+	PA	PA	PA	PA	1	a
2018	790	Terrine de saumon et saumon fumé	Fish terrine	+p	+p	+p	+p	+	18,63	29,46	+	19,40	+	19,96	+	18,87	+	+	+	+	+	+	+	PA	PA	PA	PA	1	a
2018	1011	Eclair chocolat	Pastry	+M	+p	+p	+M	+	19,13	29,44	+	19,24	+	16,76	+	18,10	+	+	+	+	+	+	+	PA	PA	PA	PA	1	a
2018	1012	Religieuse	Pastry	+p	+p	+p	+p	+	22,16	29,96	+	20,13	+	21,34	+	20,74	+	+	+	+	+	+	+	PA	PA	PA	PA	1	a
2018	1013	Tartelette framboises	Pastry	+M	+p	+m	+m	+	24,44	29,38	+	25,52	+	24,29	+	23,56	+	+	+	+	+	+	+	PA	PA	PA	PA	1	a
2018	1014	Opéra	Pastry	+M	+p	+M	+M	+	27,34	29,68	+	25,27	+	25,16	+	25,93	+	+	+	+	+	+	+	PA	PA	PA	PA	1	a
2018	1814	Sandwich thon œuf sauce cocktail	RTE (tuna sandwich)	-	-	-	-	-	N/A	30,51	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	1	a	
2018	1815	Sandwich jambon emmental	RTE (ham sandwich)	st	st	st	st	-	N/A	30,44	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	1	a	
2018	1816	Sandwich saumon fumé aneth	RTE (smokes salmon sandwich)	st	st	st	st	-	N/A	34,48	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	1	a	
2018	1817	Salade torsades jambon emmental	RTE (ham salad)	-	st	-	-	-	N/A	29,53	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	1	a	
2018	1818	Tortis et concombre au saumon	RTE (salad)	-	-	-	-	-	N/A	29,37	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	1	a	
2018	1819	Salade pâtes et surimi	RTE (salad)	st	st	st	st	-	N/A	29,86	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	1	a	
2018	1820	Terrine de saumon et saumon fumé	RTE (fish terrine)	st	st	st	st	-	N/A	29,28	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	1	a	
2018	1821	Terrine aux saint Jacques	RTE (fish terrine)	st	st	st	st	-	37,68/N/A/N/A	29,31/29,43/29,39	+/-	N/A	-	N/A	-	N/A	-	-(5x RVS/MKTTn/MSRV)	-	-	-	-	PPNA	NA	NA	NA	1	a	
2018	2095	Jambon cuit supérieur	Cooked ham	+M	+p	+p	+p	+	23,81	29,42	+	23,39	+	23,55	+	23,68	+	+	+	+	+	+	PA	PA	PA	PA	1	a	
2018	2096	Mayonnaise fine	Mayonnaise	+p	+p	+p	+p	+	N/A/N/A/N/A	37,22 / 36,98 / 37,62	-/-	37,39	+	N/A	-	N/A	-	+	-	+	-	-	ND	PA	ND	ND	1	a	
2018	2097	Quiche lorraine	Quiche	+p	+p	+p	+p	+	19,20	29,28	+	20,18	+	18,44	+	19,02	+	+	+	+	+	+	PA	PA	PA	PA	1	a	
2018	2103	Tapas (crevettes, moules, encornets, calamars)	RTE (tapas)	+p	+p	+p	+p	+	25,23	29,15	+	24,73	+	25,10	+	24,49	+	+	+	+	+	+	PA	PA	PA	PA	1	a	
2018	2110	Chair de tourteaux	Crab meat	+p	+p	+p	+p	+	24,15	31,16	+	23,96	+	24,08	+	23,59	+	+	+	+	+	+	PA	PA	PA	PA	1	a	
2018	2111	Surimi	Surimi	+p	+p	+p	+p	+	22,01	29,15	+	22,41	+	22,60	+	22,68	+	+	+	+	+	+	PA	PA	PA	PA	1	a	
2018	4212	Tartelette fraises	Pastry	-	-	-	-	-	N/A	30,38	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	1	a	
2018	1001	Poulet au curry et légumes	RTRH (chicken)	+p	+p	+p	+p	+	22,14	29,37	+	21,48	+	19,67	+	21,76	+	+	+	+	+	+	PA	PA	PA	PA	1	b	

♦ Analyses performed according to the COFRAC accreditation  
 ADRIA Développement  
 Summary report (Version 0)  
 BioChek Salmonella species DNA Test Kit

READY-TO-EAT AND READY-TO-REHEAT FOODS																												
Date of analysis	N° Sample	Product (French name)	Product	Reference method: ISO 6579-1 ♦					Alternative method : BioChek Salmonella Species DNA Test Kit																			
				RVS		Mktn		Result	PCR								Confirmatory tests (ISO 6579-1)	Final result				Agreement				Category	Type	
				XLD	ASAP	XLD	ASAP		Bio-Rad CFX96			ABS 7500		Agilent MX3005P		Roche LightCycler 480II		Bio-Rad CFX96	ABS 7500	Agilent MX3005P	Roche LightCycler 480II	Bio-Rad CFX96	ABS 7500	Agilent MX3005P	Roche LightCycler 480II			
									Cq (FAM)	Cq (HEX)	Result	Cq (FAM)	Result	Cq (FAM)	Result	Cq (FAM)												Result
2018	1002	Bœuf bourguignon	RTRH (beef)	+M	+M	+m	+M	+	24,16	29,19	+	23,81	+	23,45	+	24,31	+	+	+	+	+	+	PA	PA	PA	PA	1	b
2018	1005	Sauté de porc à la catalane	RTRH (pork)	st	st	st	st	-	N/A	30,36	-	N/A 34,75*	i +*	N/A	-	N/A	-	-	-	-	-	-	NA	PPNA	NA	NA	1	b
2018	1006	Crevettes sauce piquante	RTRH (shrimp)	+p	+p	+p	+p	+	20,03	29,48	+	21,19	+	19,77	+	19,91	+	+	+	+	+	PA	PA	PA	PA	1	b	
2018	1007	Encornet farci	RTRH (squid)	+p	+p	+p	+p	+	18,51	29,56	+	19,66	+	17,86	+	18,02	+	+	+	+	+	PA	PA	PA	PA	1	b	
2018	1008	Paella	RTRH (paella)	+p	+p	+p	+p	+	18,68	29,25	+	18,44	+	18,54	+	18,26	+	+	+	+	+	PA	PA	PA	PA	1	b	
2018	1009	Paupiette de saumon sauce beurre citron	RTRH (salmon)	+p	+p	+p	+p	+	18,13	29,21	+	18,72	+	17,49	+	17,55	+	+	+	+	+	PA	PA	PA	PA	1	b	
2018	1010	Nem crabe crevette	RTRH (seafood)	+p	+p	+p	+p	+	20,19	29,16	+	18,84	+	20,29	+	19,92	+	+	+	+	+	PA	PA	PA	PA	1	b	
2018	1822	Crevettes sauce piquante	RTRH (shrimp)	st	st	st	st	-	N/A	29,49	-	N/A	-	N/A	-	N/A	-	-	-	-	-	NA	NA	NA	NA	1	b	
2018	1823	Acras morue	RTRH (seafood)	st	st	-	-	-	N/A	29,44	-	N/A	-	N/A	-	N/A	-	-	-	-	-	NA	NA	NA	NA	1	b	
2018	1824	Parmentier de canard	RTRH (duck)	st	st	st	st	-	N/A	29,92	-	N/A	-	N/A	-	N/A	-	-	-	-	-	NA	NA	NA	NA	1	b	
2018	1825	Cordon bleu	RTRH (poultry)	st	st	st	st	-	N/A	29,25	-	N/A	-	N/A	-	N/A	-	-	-	-	-	NA	NA	NA	NA	1	b	
2018	1826	Petit salé aux lentilles vertes	RTRH (pork)	st	st	st	st	-	N/A	29,34	-	N/A	-	N/A	-	N/A	-	-	-	-	-	NA	NA	NA	NA	1	b	
2018	1827	Hachis parmentier	RTRH (beef)	st	st	st	st	-	N/A	29,69	-	N/A	-	N/A	-	N/A	-	-	-	-	-	NA	NA	NA	NA	1	b	
2018	2098	Lasagnes à la bolognaise	RTRH (lasagnas)	+p	+p	+p	+p	+	19,51	29,96	+	18,59	+	19,64	+	19,75	+	+	+	+	+	PA	PA	PA	PA	1	b	
2018	2099	Couscous	RTRH (couscous)	+p	+p	+p	+p	+	18,28	29,43	+	18,15	+	19,30	+	18,45	+	+	+	+	+	PA	PA	PA	PA	1	b	
2018	2100	Moussaka	RTRH (moussaka)	+p	+p	+p	+p	+	18,17	29,01	+	17,76	+	18,99	+	19,17	+	+	+	+	+	PA	PA	PA	PA	1	b	
2018	4213	Blanquette de veau	RTRH meal	st	st	st	st	-	N/A	30,85	-	N/A	-	N/A	-	N/A	-	-	-	-	-	NA	NA	NA	NA	1	b	
2018	4214	Bœuf bourguignon	RTRH meal	st	st	st	st	-	N/A	29,46	-	N/A	-	N/A	-	N/A	-	-	-	-	-	NA	NA	NA	NA	1	b	
2018	4215	Lasagne bolognaise	RTRH meal	st	st	st	st	-	N/A	29,97	-	N/A	-	N/A	-	N/A	-	-	-	-	-	NA	NA	NA	NA	1	b	
2018	791	Filets de harengs doux fumés aux aromates	Smoked fish	st	st	-	-	-	N/A	29,76	-	N/A	-	N/A	-	N/A	-	-	-	-	-	NA	NA	NA	NA	1	c	
2018	792	Mini tranches de truite fumée	Smoked fish	+p	+p	+p	+p	+	19,34	29,61	+	19,83	+	21,70	+	20,01	+	+	+	+	+	PA	PA	PA	PA	1	c	
2018	793	Filet de maquereaus fumés au bois de hêtre au poivre	Smoked fish	+p	+p	+p	+p	+	18,43	29,42	+	19,66	+	19,91	+	19,01	+	+	+	+	+	PA	PA	PA	PA	1	c	
2018	2101	Carpaccio basilic	Carpaccio	+p	+p	+M	+p	+	23,72	29,53	+	22,54	+	23,95	+	22,79	+	+	+	+	+	PA	PA	PA	PA	1	c	
2018	2102	Carpaccio citron basilic	Carpaccio	+p	+p	+p	+p	+	22,75	30,38	+	21,51	+	21,96	+	21,94	+	+	+	+	+	PA	PA	PA	PA	1	c	
2018	2395	Carpaccio pur boeuf citron basilic	Carpaccio	+M	+M	+M	+M	+	23,82	29,83	+	22,59	+	23,45	+	21,72	+	+	+	+	+	PA	PA	PA	PA	1	c	
2018	2396	Carpaccio pistou basilic	Carpaccio	+p	+p	+p	+p	+	22,52	29,61	+	20,91	+	21,17	+	21,08	+	+	+	+	+	PA	PA	PA	PA	1	c	
2018	2397	Magret de canard séché	Smoked duck	+p	+p	+m	+p	+	30,14	29,82	+	31,50	+	30,33	+	30,43	+	+	+	+	+	PA	PA	PA	PA	1	c	

READY-TO-EAT AND READY-TO-REHEAT FOODS																													
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				RVS		Mktn		Result	PCR								Confirmatory tests (ISO 6579-1)	Final result				Agreement				Category	Type		
				XLD	ASAP	XLD	ASAP		Bio-Rad CFX96			ABS 7500		Agilent MX3005P		Roche LightCycler 480II		Bio-Rad CFX96	ABS 7500	Agilent MX3005P	Roche LightCycler 480II	Bio-Rad CFX96	ABS 7500	Agilent MX3005P	Roche LightCycler 480II				
				Cq (FAM)	Cq (HEX)	Result	Cq (FAM)		Result	Cq (FAM)	Result	Cq (FAM)	Result																
2018	2398	Magret de canard fumé au bois de hêtre	Smoked duck	+p	+p	+p	+p	+	26,20	30,07	+	24,69	+	25,69	+	25,14		+	+	+	+	+	+	+	PA			PA	PA
2018	2399	Filet de harengs fumés	Marinated fish fillet	+p	+p	+p	+p	+	22,03	29,52	+	21,89	+	22,11	+	21,69	+	+	+	+	+	+	+	PA	PA	PA	PA	1	c
2018	2400	Filet d'anchois marinés	Marinated fish fillet	st	st	st	st	-	N/A	29,96	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	1	c	
2018	4216	Carpaccio marinade pesto rouge	Carpaccio	-	-	-	-	-	N/A	29,31	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	1	c	
2018	4217	Carpaccio basilic	Carpaccio	st	-	-	-	-	N/A	29,43	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	1	c	
2018	4218	Carpaccio	Carpaccio	st	st	st	st	-	N/A	29,91	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	1	c	
2018	4219	Filets de maquereaux fumés au poivre	Smoked fish fillets	st	st	st	st	-	N/A	29,71	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	1	c	
2018	4220	Mini tranche de truite fumée	Smoked fish	st	st	st	st	-	N/A	29,20	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	1	c	
2018	4221	Filets d'anchois marinés	Marinated fish fillets	st	st	st	st	-	N/A	29,76	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	1	c	
2018	4222	Harengs marinés au vinaigre	Marinated fish	st	st	st	st	-	N/A	29,59	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	1	c	
2018	4223	Magret de canard fumé	Smoked duck	-	-	-	-	-	N/A	30,47	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	1	c	
2018	4224	Magret de canard séché	Smoked duck	st	st	st	st	-	N/A	30,07	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	1	c	

MEAT PRODUCTS																												
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				XLD	ASAP	XLD	ASAP		Bio-Rad CFX96			ABS 7500		Agilent MX3005P		Roche LightCycler 480II		Bio-Rad CFX96	ABS 7500	Agilent MX3005P	Roche LightCycler 480II	Bio-Rad CFX96	ABS 7500	Agilent MX3005P	Roche LightCycler 480II			
									Cq (FAM)	Cq (HEX)	Result	Cq (FAM)	Result	Cq (FAM)	Result	Cq (FAM)												Result
2018	203	Araignée de porc marinée	Raw marinated pork meat	-	-	+m	+M	+	36,90	29,66	+	37,13	+	34,70	+	35,00	+	+	+	+	+	+	PA	PA	PA	PA	2	a
2018	204	Préparation de viande blanche congelée	Frozen white meat	+(1)/+	+m/+	+(2)	+m/+	+	26,78	29,20	+	25,50	+	26,80	+	26,31	+	+	+	+	+	+	PA	PA	PA	PA	2	a
2018	205	Araignée de porc marinée	Raw marinated pork meat	+d/-	-	-	-	-	N/A	29,54	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	2	a
2018	206	Bœuf	Raw beef meat	+M	+M	+p	+p	+	22,22	29,36	+	22,72	+	21,43	+	21,56	+	+	+	+	+	+	PA	PA	PA	PA	2	a
2018	207	Araignée brute	Raw pork meat	-	-	-	-	-	N/A	29,33	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	2	a
2018	208	Araignée de porc marinée	Raw marinated pork meat	+d/-	-	-	-	-	N/A	29,56	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	2	a
2018	209	VSM de porc	Raw pork meat	-	-	-	-	-	N/A	29,81	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	2	a
2018	210	Rognons	Kidneys	-	-	+d/-	-	-	N/A	30,52	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	2	a
2018	211	Tête de cochon	Raw pork meat	+m	+M	+M	+M	+	31,65	29,64	+	29,48	+	29,56	+	29,84	+	+	+	+	+	PA	PA	PA	PA	2	a	
2018	213	Paupiette crépinée	Raw veal meat	-	-	-	-	-	N/A	29,42	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	2	a
2018	214	Araignée marinée 25%	Raw marinated pork meat	+1/2	+m	+M	+M	+	28,14	29,09	+	24,88	+	25,82	+	25,23	+	+	+	+	+	PA	PA	PA	PA	2	a	
2018	217	Rognons de porc	Pork kidneys	+m	+m	+M	+M	+	30,38	29,78	+	28,15	+	28,25	+	28,64	+	+	+	+	+	PA	PA	PA	PA	2	a	
2018	218	Hâché de porc	Minced raw pork	+m	+m/+	+m/+	+m	+	33,82	29,46	+	33,73	+	32,48	+	35,00	+	+	+	+	+	PA	PA	PA	PA	2	a	
2018	219	Côte de porc	Raw pork meat	-	-	-	-	-	N/A	29,42	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	2	a
2018	222	Steak hâché 15%	Raw ground beef	-	-	-	-	-	N/A	29,27	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	2	a
2018	223	Carré+loin ribs	Raw pork meat	-	-	-	-	-	N/A	29,69	-	N/A	-	N/A	-	35,00	+	-	-	-	-	-	NA	NA	NA	PPNA	2	a
2018	353	Paupiette de veau	Raw veal meat	-	-	-	-	-	N/A	29,39	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	2	a
2018	354	Onglet de porc	Raw pork meat	+m	+1/2	+M	+M	+	32,25	29,43	+	31,50	+	30,43	+	31,39	+	+	+	+	+	PA	PA	PA	PA	2	a	
2018	355	Rôti pruneaux-abricots	Seasoned pork meat	-	-	-	-	-	N/A	29,53	-	N/A	-	36,34	+	N/A	-	-	-	-	-	-	NA	NA	PPNA	NA	2	a
2018	356	Rôti porc chèvre tomates confites	Seasoned pork meat	+p	+p	+p	+M	+	25,48	29,34	+	23,74	+	24,31	+	23,78	+	+	+	+	+	PA	PA	PA	PA	2	a	
2018	357	Brochette	Raw pork meat	-	-	-	-	-	N/A	29,59	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	2	a
2018	224	Ailes de poulet	Raw chicken meat	-	-	-	-	-	N/A	29,67	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	2	b
2018	225	Viande de canard	Raw duck meat	-	+m/+	+m/+	+m/+	+	32,69	29,79	+	29,93	+	31,06	+	29,81	+	+	+	+	+	PA	PA	PA	PA	2	b	
2018	226	Dinde saumurée	Marinated raw turkey	-	-	-	-	-	N/A	29,27	-	N/A	-	30,53	+	N/A	-	-	-	-	-	-	NA	NA	PPNA	NA	2	b
2018	227	Viande blanche de poulet	Raw chicken meat	-	-	-	-	-	N/A	29,35	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	2	b
2018	228	Préparation de viande blanche de poulet congelée	Frozen raw chicken meat	-	+m/+	+M	+M	+	32,14	29,37	+	29,66	+	29,96	+	29,75	+	+	+	+	+	PA	PA	PA	PA	2	b	

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				XLD	ASAP	XLD	ASAP		Bio-Rad CFX96			ABS 7500		Agilent MX3005P		Roche LightCycler 480II		Bio-Rad CFX96	ABS 7500	Agilent MX3005P	Roche LightCycler 480II	Bio-Rad CFX96	ABS 7500	Agilent MX3005P	Roche LightCycler 480II			
									Cq (FAM)	Cq (HEX)	Result	Cq (FAM)	Result	Cq (FAM)	Result	Cq (FAM)										Result		
2018	365	VSM rouge dinde	Raw turkey meat	+(2)d/+	+m/+	+m	+m/+	+	29,05	29,58	+	26,37	+	28,92	+	27,05		+	+	+	+	+	+	PA	PA	PA	PA	2
2018	366	VSM dinde	Raw turkey meat	+(1)d/+	+m/+	+m	+1/2	+	34,98	30,82	+	31,75	+	31,95	+	31,80	+	+	+	+	+	+	PA	PA	PA	PA	2	b
2018	367	Blanquette dinde	Raw turkey meat	+M	+M	+M	+M	+	26,73	29,66	+	23,70	+	24,23	+	23,85	+	+	+	+	+	+	PA	PA	PA	PA	2	b
2018	368	Brochette poulet thym citron	Seasoned chicken meat	-	-	-	-	-	N/A	29,70	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	2	b
2018	369	Escalope dinde	Raw turkey meat	-	-	-	-	-	N/A	29,36	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	2	b
2018	370	Canard	Raw duck meat	-	-	-	+1/2d/-	-	N/A	29,66	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	2	b
2018	371	Blanquette de dinde congelée	Frozen raw turkey meat	+m	+M/+	+M	+M	+	29,72	29,18	+	27,41	+	27,09	+	26,70	+	+	+	+	+	+	PA	PA	PA	PA	2	b
2018	372	Filet de poulet	Raw chicken meat	+m	+Md	+m	+Md	+	30,37	29,73	+	27,24	+	27,28	+	26,92	+	+	+	+	+	+	PA	PA	PA	PA	2	b
2018	373	Viande blanche de poulet congelée	Frozen raw chicken meat	-	-	+md ( <i>E.coli/Citrobacter youngae</i> )	-	-	N/A	29,37	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	2	b
2018	374	Pool coquelet désossé	Raw cockerel without bone	+1/2	+M	+M	+M	+	26,28	29,61	+	24,53	+	24,29	+	24,78	+	+	+	+	+	+	PA	PA	PA	PA	2	b
2018	375	Haut de cuisse de poulet au paprika	Seasoned raw chicken meat	-	-	-	-	-	N/A	29,71	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	2	b
2018	376	Viande filet poulet	Raw chicken meat	-	-	-	-	-	N/A	34,14	-	N/A	i _*	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	2	b
2018	377	Filet de poulet congelé halal	Frozen raw chicken meat	+m	+M	+M	+M	+	28,14	29,68	+	25,16	+	25,94	+	26,45	+	+	+	+	+	+	PA	PA	PA	PA	2	b
2018	378	Dinde à l'huile	Marinated turkey meat	-	-	-	-	-	N/A	29,32	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	2	b
2018	379	VSM poulet	Raw chicken meat	-	-	-	-	-	N/A	30,33	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	2	b
2018	380	Ailes	Raw chicken meat	-	-	-	-	-	N/A	29,40	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	2	b
2018	212	Chorizo courbe	Chorizo	st	st	-	-	-	N/A	29,88	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	2	c
2018	215	Chorizo à griller	Chorizo	-	-	-	-	-	N/A	29,34	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	2	c
2018	216	Chipolatas aux herbes	Sausages with herbs	st	st	st	st	-	N/A	29,86	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	2	c
2018	220	Saucisse de Toulouse	Sausages	+m	+m	+M	+M	+	28,96	29,36	+	29,55	+	28,27	+	28,52	+	+	+	+	+	+	PA	PA	PA	PA	2	c
2018	221	Chorizo courbe	Chorizo	-	-	st	st	-	N/A	29,64	-	N/A	-	34,41	+	N/A	-	-	-	-	-	-	NA	NA	PPNA	NA	2	c
2018	358	Saucisse sans sel	Sausage without salt	-	-	-	-	-	N/A	29,47	-	N/A	-	N/A	-	35,00	+	-	-	-	-	-	NA	NA	NA	PPNA	2	c
2018	359	Grosse saucisse	Sausage	+m	+M	+M	+M	+	28,01	29,39	+	27,25	+	29,95	+	37,72	+	+	+	+	+	+	PA	PA	PA	PA	2	c
2018	360	Chipolatas aux herbes	Sausages with herbs	+M	+M	+M	+p	+	25,11	29,32	+	24,15	+	23,75	+	24,48	+	+	+	+	+	+	PA	PA	PA	PA	2	c
2018	361	Chipolatas sans sel	Sausages without salt	-	-	-	-	-	30,96	29,43	+	30,53	+	30,20	+	30,05	+	+	+	+	+	+	PD	PD	PD	PD	2	c
2018	362	Chipolatas	Sausages	-	-	-	-	-	N/A	29,48	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	2	c

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									Cq (FAM)	Cq (HEX)	Result	Cq (FAM)	Result	Cq (FAM)	Result	Cq (FAM)										Result			
2018	363	Chorizo	Chorizo	-	-	st	st	-	N/A	29,98	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	NA	NA	NA	NA	2	c
2018	364	Chipolatas	Sausages	-	-	-	-	-	N/A	29,40	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	2	c	
2018	2401	Salami	Salami	+M	+M	+M	+p	+	23,00	29,91	+	22,23	+	22,47	+	21,40	+	+	+	+	+	PA	PA	PA	PA	2	c		
2018	2402	Salami	Salami	+M	+M	+M	+p	+	24,02	30,02	+	23,17	+	22,73	+	22,95	+	+	+	+	+	PA	PA	PA	PA	2	c		
2018	2403	Bacon	Bacon	+p	+p	+p	+p	+	23,20	29,88	+	20,45	+	21,78	+	20,97	+	+	+	+	+	PA	PA	PA	PA	2	c		
2018	2404	Filet de bacon	Bacon	+p	+p	+p	+p	+	20,53	29,37	+	18,31	+	20,32	+	19,22	+	+	+	+	+	PA	PA	PA	PA	2	c		
2018	2405	Chorizo doux	Chorizo	+p	+p	+p	+p	+	25,61	30,22	+	22,87	+	24,99	+	23,86	+	+	+	+	+	PA	PA	PA	PA	2	c		
2018	2406	Chorizo fort	Chorizo	+p	+p	+p	+p	+	24,25	29,38	+	22,51	+	23,46	+	22,67	+	+	+	+	+	PA	PA	PA	PA	2	c		
2018	2407	Chair à saucisse	Sausages	+1/2	+M	+1/2	+M	+	34,27	29,84	+	32,57	+	33,05	+	32,42	+	+	+	+	+	PA	PA	PA	PA	2	c		
2018	2408	Chair à saucisse	Sausages	+M	+M	+M	+M	+	N/A/N/A /N/A	30,63/ 30,52/ 30,36	-/-	N/A	-	N/A	-	N/A	-	+	-	-	-	ND	ND	ND	ND	2	c		

INGREDIENTS AND SPECIFIC FOODS																												
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									Cq (FAM)	Cq (HEX)	Result	Cq (FAM)	Result	Cq (FAM)	Result	Cq (FAM)												Result
2018	2275	Paprika doux	Spice (paprika)	st	st	st	st	-	N/A	30,82	-	N/A	-	33,39	+	N/A	-	-	-	-	-	-	NA	NA	PPNA	NA	3	a
2018	2276	Cumin moulu	Spice (cumin)	st	st	st	st	-	N/A	30,20	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	3	a
2018	2277	Thym	Herb (thyme)	st	st	st	st	-	N/A N/A*	N/A 29,50*	i _*	N/A N/A*	i _*	N/A	-	N/A	-	-	-	-	-	NA	NA	NA	NA	3	a	
2018	2278	Basilic	Herb (basil)	-	-	st	st	-	N/A N/A*	N/A 29,82*	i _*	N/A	-	N/A	-	N/A	-	-	-	-	-	NA	NA	NA	NA	3	a	
2018	2279	Origan	Spice (oregano)	-	-	-	-	-	N/A N/A*	N/A 29,59*	i _*	N/A N/A*	i _*	N/A	-	N/A	-	-	-	-	-	NA	NA	NA	NA	3	a	
2018	2280	Coriandre moulue	Spice (coriander)	st	st	st	st	-	N/A	30,55	-	N/A N/A*	i _*	N/A	-	N/A N/A*	i _*	-	-	-	-	NA	NA	NA	NA	3	a	
2018	2281	Cannelle moulue	Spice (cinnamon)	-	-	-	-	-	N/A N/A*	N/A 29,66*	i _*	N/A	-	N/A N/A*	i _*	N/A N/A*	i _*	-	-	-	-	NA	NA	NA	NA	3	a	
2018	2282	Piment fort moulu	Spice (chili)	st	st	st	st	-	N/A	32,62	-	N/A	-	37,92	+	N/A	-	-	-	-	-	NA	NA	PPNA	NA	3	a	
2018	2283	Curcuma moulu	Spice (curcuma)	st	st	st	st	-	N/A	30,35	-	N/A	-	N/A	-	N/A	-	-	-	-	-	NA	NA	NA	NA	3	a	
2018	2284	Pastille chocolat noir (75% cacao)	Dark chocolate pellet	st	st	st	st	-	N/A	30,82	-	N/A	-	N/A	-	N/A	-	-	-	-	-	NA	NA	NA	NA	3	a	
2018	2285	Pastille chocolat noir (65% cacao)	Dark chocolate pellet	+p	+p	+p	+p	+	22,15	39,03	+	22,98	+	23,00	+	21,30	+	+	+	+	+	PA	PA	PA	PA	3	a	
2018	2286	Poudre de cacao (100% cacao)	Cocoa powder	+p	+p	+p	+p	+	N/A 29,96*	N/A 29,54*	i _*	29,77	+	29,36	+	N/A 30,87*	i _*	+	+	+	+	PA	PA	PA	PA	3	a	
2018	2287	Chocolat en poudre (32% cacao)	Cocoa powder	+p	+p	+p	+p	+	25,72	32,34	+	26,47	+	25,77	+	25,09	+	+	+	+	+	PA	PA	PA	PA	3	a	
2018	2288	Poudre de cacao non sucré (100% cacao)	Savoury cocoa powder	st	st	st	st	-	N/A N/A*	N/A 29,60*	i _*	N/A N/A*	i _*	N/A	-	N/A N/A*	i _*	-	-	-	-	NA	NA	NA	NA	3	a	
2018	2289	Fèves cacao	Cocoa bean	-	-	-	-	-	N/A	30,03	-	N/A	-	N/A	-	N/A	-	-	-	-	-	NA	NA	NA	NA	3	a	
2018	3267	Ciboulette tubulaire	Chive	-	-	st	st	-	N/A	30,46	-	N/A	-	N/A	-	N/A	-	-	-	-	-	NA	NA	NA	NA	3	a	
2018	3268	Estragon	Tarragon	+p	+p	+p	+p	+	22,60	29,56	+	20,80	+	21,93	+	21,13	+	+	+	+	+	PA	PA	PA	PA	3	a	
2018	3269	Origan	Oregano	+p	+p	+p	+p	+	37,04	31,37	+	35,83	+	35,10	+	35,00	+	+	+	+	+	PA	PA	PA	PA	3	a	
2018	3270	Sarriette	Savory	+p	+p	+p	+p	+	N/A 36,99*	N/A 29,18*	i _*	N/A N/A*	i _*	N/A N/A*	i _*	N/A 35,00*	i _*	+	-	-	+	PA	ND	ND	PA	3	a	
2018	3271	Romarin	Romarin	+p	+p	+p	+p	+	22,36	N/A	+	22,58	+	23,12	+	22,48	+	+	+	+	+	PA	PA	PA	PA	3	a	
2018	3272	Persil	Parsley	+p	+p	+p	+p	+	21,75	29,48	+	21,68	+	22,44	+	21,57	+	+	+	+	+	PA	PA	PA	PA	3	a	

♦ Analyses performed according to the COFRAC accreditation  
ADRIA Développement  
Summary report (Version 0)  
BioChek Salmonella species DNA Test Kit



INGREDIENTS AND SPECIFIC FOODS																													
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				RVS		Mktn		Result	PCR								Confirmatory tests (ISO 6579-1)	Final result				Agreement							
				XLD	ASAP	XLD	ASAP		Bio-Rad CFX96			ABS 7500		Agilent MX3005P		Roche LightCycler 480II		Bio-Rad CFX96	ABS 7500	Agilent MX3005P	Roche LightCycler 480II	Bio-Rad CFX96	ABS 7500	Agilent MX3005P	Roche LightCycler 480II				
									Cq (FAM)	Cq (HEX)	Result	Cq (FAM)	Result	Cq (FAM)	Result	Cq (FAM)												Result	
2018	3273	Gingembre	Ginger	+p	+p	+p	+p	+	32,58	29,93	+	33,60	+	32,67	+	32,42	+	+	+	+	+	+	PA	PA	PA	PA	3	a	
2018	3274	Colombo	Colombo	-	-	-	-	-	N/A	30,85	-	N/A	-	N/A	-	35,00	+	-	-	-	-	-	NA	NA	NA	PPNA	3	a	
2018	3275	Céleri	Celery	st	st	st	st	-	N/A	29,80	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	3	a	
2018	3530	Cannelle moulue	Cinnamon	st	st	st	st	-	N/A N/A*	N/A 29,72*	i _*	N/A N/A*	i _*	N/A N/A*	i _*	N/A N/A*	i _*	-	-	-	-	-	NA	NA	NA	NA	3	a	
2018	3531	Coriandre moulue	Coriander	-	-	-	-	-	N/A N/A*	N/A 29,68*	i _*	N/A N/A*	i _*	N/A	-	N/A N/A*	i _*	-	-	-	-	-	NA	NA	NA	NA	3	a	
2018	3532	Thym	Thyme	+p	+p	+p	+p	+	N/A N/A/ 35,86/ N/A*	N/A 29,54/ 29,78/ 29,28*	i -/+/-*	35,76	+	35,14	+	34,22	+	+	-	+	+	+	+	ND	PA	PA	PA	3	a
2018	1217	Lait infantile en poudre avec probiotiques (Bifidobactéries < 10 UFC/g)	Infant formula with probiotics (<10 CFU/g)	st	st	st	st	-	N/A	29,68	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	3	b	
2018	1218	Lait infantile en poudre avec probiotiques (Lactobacillus reuteri DSM17938 1,4.10 <sup>6</sup> UFC/g)	Infant formula with probiotics (Lactobacillus reuteri DSM17938 1,4.10 <sup>6</sup> CFU/g)	+p	+p	+p	+p	+	25,64	29,32	+	24,13	+	32,36	+	26,25	+	+	+	+	+	+	PA	PA	PA	PA	3	b	
2018	1219	Lait infantile en poudre avec probiotiques (B. lactis 2,5.10 <sup>6</sup> UFC/g)	Infant formula with probiotics (B. lactis 2,5.10 <sup>6</sup> CFU/g)	+p	+p	+p	+p	+	19,77	29,38	+	18,85	+	19,75	+	19,55	+	+	+	+	+	+	PA	PA	PA	PA	3	b	
2018	1220	Lait infantile en poudre avec probiotiques (Lactobacillus fermentum CECT5716 3,5.10 <sup>2</sup> UFC/g)	Infant formula with probiotics (Lactobacillus fermentum CECT5716 3,5.10 <sup>2</sup> CFU/g)	+p	+p	+p	+p	+	18,54	29,65	+	18,16	+	18,15	+	18,59	+	+	+	+	+	+	PA	PA	PA	PA	3	b	
2018	1221	Lait infantile en poudre avec probiotiques (Lactobacillus fermentum CECT5716 < 10 UFC/g)	Infant formula with probiotics (Lactobacillus fermentum CECT5716 <10 CFU/g)	+p	+p	+p	+p	+	N/A/ 35,43/ N/A	30,22/ 29,45/ 29,29	-/+/-	N/A	-	N/A	-	N/A	-	+	-	-	-	-	ND	ND	ND	ND	3	b	
2018	1222	Céréales avec probiotiques saveur noisette biscuité (B.lactis 8,9.10 <sup>4</sup> UFC/g)	Cereals with probiotics (B.lactis 8,9.10 <sup>4</sup> CFU/g)	+p	+p	+p	+p	+	20,13	29,55	+	20,52	+	20,22	+	20,03	+	+	+	+	+	+	PA	PA	PA	PA	3	b	
2018	1223	Céréales avec probiotiques saveur 5 céréales (B.lactis 1,1.10 <sup>5</sup> UFC/g)	Cereals with probiotics (B.lactis 1,1.10 <sup>5</sup> CFU/g)	+M	+p	+p	+p	+	20,87	29,40	+	22,36	+	21,05	+	22,07	+	+	+	+	+	+	PA	PA	PA	PA	3	b	

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				XLD	ASAP	XLD	ASAP		Bio-Rad CFX96			ABS 7500		Agilent MX3005P		Roche LightCycler 480II		Bio-Rad CFX96	ABS 7500	Agilent MX3005P	Roche LightCycler 480II	Bio-Rad CFX96	ABS 7500	Agilent MX3005P	Roche LightCycler 480II				
									Cq (FAM)	Cq (HEX)	Result	Cq (FAM)	Result	Cq (FAM)	Result	Cq (FAM)												Result	
2018	1224	Céréales avec probiotiques saveur biscuité ( <i>B. lactis</i> 1,1.10 <sup>5</sup> UFC/g)	Cereals with probiotics ( <i>B. lactis</i> 1,1.10 <sup>5</sup> CFU/g)	+p	+p	+p	+p	+	24,25	29,36	+	26,02	+	24,89	+	24,59	+	+	+	+	+	+	+	PA	PA	PA	PA	3	b
2018	1225	Céréales avec probiotiques saveur vanille ( <i>B. lactis</i> 1,4.10 <sup>6</sup> UFC/g)	Cereals with probiotics ( <i>B. lactis</i> 1,4.10 <sup>6</sup> CFU/g)	+p	+p	+p	+p	+	27,21	29,73	+	27,33	+	27,21	+	25,69	+	+	+	+	+	+	+	PA	PA	PA	PA	3	b
2018	1226	Céréales avec probiotiques saveur cacao ( <i>B. lactis</i> 2,8.10 <sup>6</sup> UFC/g)	Cereals with probiotics ( <i>B. lactis</i> 2,8.10 <sup>6</sup> CFU/g)	st	st	st	st	-	N/A	29,95	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	3	b	
2018	1833	Céréales avec probiotiques saveur vanille/chocolat ( <i>B. lactis</i> 8,8.10 <sup>4</sup> UFC/g)	Cereals with probiotics ( <i>B. lactis</i> 8,8.10 <sup>4</sup> CFU/g)	st	st	-	-	-	N/A	30,17	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	3	b	
2018	1834	Céréales avec probiotiques saveur miel ( <i>B. lactis</i> 5,6.10 <sup>5</sup> UFC/g)	Cereals with probiotics ( <i>B. lactis</i> 5,6.10 <sup>5</sup> CFU/g)	st	st	-	-	-	N/A	29,55	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	3	b	
2018	1835	Céréales avec probiotiques saveur chocolat au lait/biscuité ( <i>B. lactis</i> 2,7.10 <sup>3</sup> UFC/g)	Cereals with probiotics ( <i>B. lactis</i> 2,7.10 <sup>3</sup> CFU/g)	st	st	-	-	-	N/A	29,43	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	3	b	
2018	1836	Céréales avec probiotiques saveur caramel ( <i>B. lactis</i> 6,7.10 <sup>5</sup> UFC/g)	Cereals with probiotics ( <i>B. lactis</i> 6,7.10 <sup>5</sup> CFU/g)	st	st	-	-	-	N/A	29,49	-	N/A	-	28,05	+	N/A	-	-	-	-	-	-	NA	NA	PPNA	NA	3	b	
2018	1837	Céréales avec probiotiques saveur biscuité ( <i>B. lactis</i> 1,1.10 <sup>5</sup> UFC/g)	Cereals with probiotics ( <i>B. lactis</i> 1,1.10 <sup>5</sup> CFU/g)	st	st	-	-	-	N/A	29,27	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	3	b	
2018	2929	Lait infantile en poudre avec probiotiques ( <i>Bifidobacterium infantis</i> / <i>Lactobacillus rhamnosus</i> 2,4.10 <sup>6</sup> UFC/g)	Infant formula with probiotics ( <i>Bifidobacterium infantis</i> / <i>Lactobacillus rhamnosus</i> 2,4.10 <sup>6</sup> CFU/g)	st	st	st	st	-	N/A	29,34	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	3	b	
2018	2930	Lait infantile en poudre avec probiotiques ( <i>Lactobacillus fermentum hereditum</i> CECT5716 5,7.10 <sup>5</sup> UFC/g)	Infant formula with probiotics ( <i>Lactobacillus fermentum hereditum</i> CECT5716 5,7.10 <sup>5</sup> CFU/g)	st	st	st	st	-	N/A	29,60	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	3	b	
2018	2931	Céréales avec probiotiques saveur miel ( <i>B. lactis</i> 5,6.10 <sup>5</sup> UFC/g)	Cereals with probiotics ( <i>B. lactis</i> 5,6.10 <sup>5</sup> CFU/g)	+p	+p	+p	+p	+	24,59	29,42	+	24,19	+	23,86	+	24,34	+	+	+	+	+	+	PA	PA	PA	PA	3	b	
2018	2932	Céréales avec probiotiques saveur caramel ( <i>B. lactis</i> 6,7.10 <sup>5</sup> UFC/g)	Cereals with probiotics ( <i>B. lactis</i> 6,7.10 <sup>5</sup> CFU/g)	st	st	st	st	-	35,55/ 35,98/ 36,41	29,76/ 29,90/ 29,83	+/+	36,62	+	35,56	+	35,00	+	-(5x RVS/ MKTTn/ MSRV)	-	-	-	-	PPNA	PPNA	PPNA	PPNA	3	b	

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				XLD	ASAP	XLD	ASAP		Bio-Rad CFX96			ABS 7500		Agilent MX3005P		Roche LightCycler 480II		Bio-Rad CFX96	ABS 7500	Agilent MX3005P	Roche LightCycler 480II	Bio-Rad CFX96	ABS 7500	Agilent MX3005P	Roche LightCycler 480II					
									Cq (FAM)	Cq (HEX)	Result	Cq (FAM)	Result	Cq (FAM)	Result	Cq (FAM)												Result		
2018	4225	Lait infantile avec probiotiques ( <i>B. lactis</i> 4,2.10 <sup>5</sup> UFC/g)	Infant formula with probiotics ( <i>B. lactis</i> 4,2.10 <sup>5</sup> CFU/g)	st	st	st	st	-	N/A	29,52	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-	3	b
2018	1858	Coule de blanc d'œuf pasteurisé	Pasteurized white liquid egg	+p	+p	+p	+p	+	19,33	31,20	+	18,13	+	18,03	+	18,09	+	+	+	+	+	+	+	+	+	+	+	+	3	c
2018	1859	Coule de blanc d'œuf pasteurisé	Pasteurized white liquid egg	+p	+p	+p	+p	+	18,32	30,25	+	17,18	+	17,21	+	17,48	+	+	+	+	+	+	+	+	+	+	+	+	3	c
2018	1860	Coule d'œuf entier liquide pasteurisé	Pasteurized whole liquid egg	+p	+p	+p	+p	+	19,16	32,85	+	19,41	+	17,09	+	17,99	+	+	+	+	+	+	+	+	+	+	+	+	3	c
2018	1861	Coule d'œuf entier liquide pasteurisé	Pasteurized whole liquid egg	+p	+p	+p	+p	+	18,19	31,63	+	17,22	+	17,40	+	17,33	+	+	+	+	+	+	+	+	+	+	+	+	3	c
2018	2052	Poudre de jaune d'œuf	Yellow egg powder	st	st	st	st	-	N/A	30,50	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	-	-	-	-	3	c	
2018	2053	Poudre d'œuf entier	Whole egg powder	st	st	st	st	-	35,29/ 36,82/ 36,91	29,71/ 29,73/ 29,80	+/+	N/A	-	N/A	-	35,00	+	-	-	-	-	-	-	PPNA	NA	NA	PPNA	3	c	
2018	2054	Poudre de blanc d'œuf	White egg powder	+p	+p	+p	+p	+	34,10	29,52	+	36,02	+	35,40	+	35,00	+	+	+	+	+	+	+	+	+	+	+	3	c	
2018	2055	Poudre de jaune d'œuf pasteurisée	Pasteurized yellow egg powder	+p	+p	+p	+p	+	22,03	31,52	+	20,52	+	19,56	+	19,93	+	+	+	+	+	+	+	+	+	+	+	3	c	
2018	2056	Poudre d'œuf entier	Whole egg powder	st	st	st	st	-	34,89/ 36,38/ 37,77	29,47/ 29,67/ 29,50	+/+	N/A	-	36,16	+	35,00	+	-	-	-	-	-	-	PPNA	NA	PPNA	PPNA	3	c	
2018	2933	Poudre de jaune d'œuf pasteurisée	Yellow egg powder	st	st	st	st	-	N/A	33,04	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	NA	NA	NA	NA	3	c	
2018	2934	Poudre de blanc d'œuf	White egg powder	st	st	st	st	-	N/A	29,31	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	NA	NA	NA	NA	3	c	
2018	2935	Poudre de blanc d'œuf	Egg white powder	st	st	st	st	-	N/A	32,40	-	N/A	-	33,14	+	N/A	-	-	-	-	-	-	-	NA	NA	PPNA	NA	3	c	
2018	2936	Poudre de jaune d'œuf	Yellow egg powder	st	st	st	st	-	N/A	29,80	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	NA	NA	NA	NA	3	c	
2018	3525	Poudre de blanc d'œuf	White egg powder	+p	+p	+p	+p	+	29,93	29,45	+	30,54	+	31,98	+	31,09	+	+	+	+	+	+	+	+	+	+	+	3	c	
2018	3526	Poudre de jaune d'œuf	Yellow egg powder	+p	+p	+p	+p	+	23,47	31,05	+	22,04	+	21,87	+	21,94	+	+	+	+	+	+	+	+	+	+	+	3	c	
2018	3527	Poudre de jaune d'œuf	Yellow egg powder	+M	+p	+M	+M	+	26,54	30,13	+	24,64	+	25,55	+	24,69	+	+	+	+	+	+	+	+	+	+	+	3	c	
2018	3528	Poudre de jaune d'œuf pasteurisée	Yellow egg powder	+p	+p	+M	+M	+	23,41	28,96	+	23,04	+	22,84	+	23,14	+	+	+	+	+	+	+	+	+	+	+	3	c	
2018	3529	Poudre de jaune d'œuf pasteurisée	Yellow egg powder	+p	+p	+p	+p	+	23,80	31,18	+	21,65	+	21,59	+	21,91	+	+	+	+	+	+	+	+	+	+	+	3	c	
2018	4226	Coule de jaune d'œuf pasteurisé	Pasteurised yellow liquid egg	st	st	st	st	-	N/A N/A*	N/A 33,10*	i -*	N/A N/A*	i -*	N/A	-	N/A	-	-	-	-	-	-	-	NA	NA	NA	NA	3	c	
2018	4227	Coule d'œuf entier pasteurisé	Pasteurised whole liquid egg	st	st	st	st	-	N/A	31,34	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	NA	NA	NA	NA	3	c	

FEED PRODUCTS																													
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				XLD	ASAP	XLD	ASAP		Bio-Rad CFX96			ABS 7500		Agilent MX3005P		Roche LightCycler 480II		Bio-Rad CFX96	ABS 7500	Agilent MX3005P	Roche LightCycler 480II	Bio-Rad CFX96	ABS 7500	Agilent MX3005P	Roche LightCycler 480II				
									Cq (FAM)	Cq (HEX)	Result	Cq (FAM)	Result	Cq (FAM)	Result	Cq (FAM)										Result			
2018	2032	Croquettes chien (poulet, pomme, riz, carotte)	Dog croquettes	-	-	-	-	-	N/A	29,52	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	NA	NA	NA	NA	4	a
2018	2033	Croquettes chat (poulet, canard et légumes)	Cat croquettes	st	st	st	st	-	N/A	29,96	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	4	a	
2018	2034	Croquettes chien (poulet orge)	Dog croquettes	st	st	st	st	-	N/A	30,10	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	4	a	
2018	2035	Croquettes chat (saumon et orge)	Cat croquettes	st	st	st	st	-	N/A	29,83	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	4	a	
2018	2036	Granulés complet cochon d'Inde	Guinea pig pellet	st	st	st	st	-	N/A	30,26	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	4	a	
2018	2037	Granulés cochon d'Inde	Guinea pig pellet	-	-	-	-	-	N/A	29,97	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	4	a	
2018	2038	Graines oiseaux	Bird feed	-	-	-	-	-	N/A	30,09	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	4	a	
2018	2039	Granulés pour lapins nains	Rabbit pellets	st	st	st	st	-	N/A	32,47	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	4	a	
2018	2040	Granulés vaches laitières	Cow pellets	+p	+p	+p	+p	+	36,92	32,26	+	35,89	+	35,62	+	35,00	+	+	+	+	+	PA	PA	PA	PA	4	a		
2018	2041	Granulés cheval	Horse pellets	-	-	-	-	-	N/A	30,02	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	4	a	
2018	2416	Croquettes pour chiens (poulet légumes)	Dog pellets	st	st	st	st	-	N/A	29,58	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	4	a	
2018	2417	Croquettes pour chats (boeuf poulet légumes)	Pellets for cats	st	st	st	st	-	N/A	30,11	-	N/A	-	N/A	-	35,00	+	-	-	-	-	-	NA	NA	NA	PPNA	4	a	
2018	2418	Croquettes pour chat (bœuf, volaille, poisson)	Pellets for cats	st	st	st	st	-	N/A	29,89	-	N/A	-	38,39	+	35,00	+	-	-	-	-	-	NA	NA	PPNA	PPNA	4	a	
2018	2419	Graines menu complet pour canaris	Bird seed	-	-	-	-	-	N/A	30,10	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	4	a	
2018	2420	Granulés pour lapins nains au thym	Rabbit pellets	+p	+p	+p	+p	+	37,30	31,11	+	36,09	+	36,28	+	N/A	-	+	+	+	-	PA	PA	PA	ND	4	a		
2018	2421	Granulés pour cochon d'Inde	Guinea pig pellets	-	-	-	-	-	N/A	30,01	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	4	a	
2018	2422	Granulés pour rongeurs	Rodent pellets	+M	+M	+p	+p	+	27,57	29,45	+	26,99	+	26,84	+	26,00	+	+	+	+	+	PA	PA	PA	PA	4	a		
2018	2423	Graines pour poules pondeuses	Chicken feed	-	-	-	-	-	N/A	29,85	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	4	a	
2018	2424	Granulés pour ruminants	Ruminal pellets	st	st	st	st	-	N/A	31,70	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	4	a	
2018	2425	Granulés pour vaches laitières	Cow pellets	-	-	-	-	-	N/A	29,93	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	4	a	
2018	3276	Croquette pour chat (au bœuf et poulet)	Croquettes for cats	st	st	st	st	-	37,70/N/A/N/A	29,75/29,65/29,94	+/-	N/A	-	N/A	-	N/A	-	-	-	-	-	PPNA	NA	NA	NA	4	a		
2018	3277	Croquette pour chien (au bœuf)	Croquettes for dog	+p	+p	+p	+p	+	22,79	30,66	+	22,27	+	22,38	+	23,28	+	+	+	+	+	PA	PA	PA	PA	4	a		
2018	3278	Croquette pour chien (bœuf, carotte, pomme, riz)	Croquettes for dog	+p	+p	+p	+p	+	22,35	29,36	+	22,31	+	22,40	+	21,74	+	+	+	+	+	PA	PA	PA	PA	4	a		

♦ Analyses performed according to the COFRAC accreditation

ADRIA Développement

Summary report (Version 0)

BioChek Salmonella species DNA Test Kit

FEED PRODUCTS																													
Date of analysis	N° Sample	Product (French name)	Product	Reference method: ISO 6579-1 ♦					Alternative method : BioChek Salmonella Species DNA Test Kit																	Category	Type		
				RVS		Mktn		Result	PCR								Confirmatory tests (ISO 6579-1)	Final result				Agreement							
				XLD	ASAP	XLD	ASAP		Bio-Rad CFX96			ABS 7500		Agilent MX3005P		Roche LightCycler 480II		Bio-Rad CFX96	ABS 7500	Agilent MX3005P	Roche LightCycler 480II	Bio-Rad CFX96	ABS 7500	Agilent MX3005P	Roche LightCycler 480II				
									Cq (FAM)	Cq (HEX)	Result	Cq (FAM)	Result	Cq (FAM)	Result	Cq (FAM)												Result	
2018	3279	Croquette pour chien (saumon/avoine)	Croquettes for dog	+p	+p	+p	+p	+	21,10	30,02	+	21,08	+	20,29	+	21,38	+	+	+	+	+	+	+	PA	PA	PA	PA	4	a
2018	3280	Croquette pour chien (junior)	Croquettes for dog	+p	+p	+p	+p	+	26,81	29,80	+	26,59	+	25,62	+	26,54	+	+	+	+	+	+	+	PA	PA	PA	PA	4	a
2018	3281	Croquette pour chien (au bœuf)	Croquettes for dog	+p	+p	+p	+p	+	21,25	29,82	+	20,97	+	20,26	+	21,31	+	+	+	+	+	+	+	PA	PA	PA	PA	4	a
2018	3282	Granulé pour porc	Pork feed	+p	+p	+p	+p	+	26,41	30,03	+	27,74	+	26,36	+	26,82	+	+	+	+	+	+	+	PA	PA	PA	PA	4	a
2018	5380	Alimentation cheval	Horse feed	-	-	-	-	-	N/A	29,89	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	NA	NA	NA	NA	4	a
2018	5381	Aliment bovin	Bovine feed	+m/+	+m	+m	+m	+	N/A/N/A/N/A	32,18/ 32,32/ 32,16	-/-/-	N/A	-	N/A	-	N/A	-	+	-	-	-	-	ND	ND	ND	ND	4	a	
2018	5382	Aliment ovine	Ovine feed	+1/2	+M	+1/2	+1/2	+	N/A/N/A/39,05	31,15/ 31,62/ 31,38	-/-/-	38,44	+	38,30	+	35,00	+	+	-	+	+	+	ND	PA	PA	PA	4	a	
2018	5383	Croquettes pour chien	Croquettes for dog	+p	+p	+p	+p	+	30,23	31,06	+	30,12	+	29,64	+	30,53	+	+	+	+	+	+	PA	PA	PA	PA	4	a	
2018	5384	Croquettes pour chat	Croquettes for cat	+p	+p	+p	+p	+	21,88	30,29	+	21,87	+	21,76	+	21,86	+	+	+	+	+	+	PA	PA	PA	PA	4	a	
2018	5385	Croquettes pour chat	Croquettes for cat	+p	+p	+p	+p	+	23,26	29,88	+	23,50	+	23,39	+	23,26	+	+	+	+	+	+	PA	PA	PA	PA	4	a	
2018	5386	Croquettes pour chat	Croquettes for cat	+p	+p	+p	+p	+	22,48	30,43	+	22,37	+	21,76	+	22,56	+	+	+	+	+	+	PA	PA	PA	PA	4	a	
2018	993	Terrine pour chat à la volaille	Terrine (for cat)	+p	+p	+p	+p	+	18,19	29,30	+	17,64	+	17,76	+	15,97	+	+	+	+	+	+	PA	PA	PA	PA	4	b	
2018	994	Terrine pour chien au bœuf	Terrine (for dog)	+p	+p	+p	+p	+	19,06	29,32	+	18,42	+	18,43	+	19,16	+	+	+	+	+	+	PA	PA	PA	PA	4	b	
2018	995	Bouchées pour chat à la volaille et aux légumes	Terrine (for cat)	st	st	st	st	-	N/A	30,02	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	4	b	
2018	996	Bouchées pour chien à la volaille et aux carottes	Terrine (for dog)	+p	+p	+p	+p	+	18,48	29,36	+	17,68	+	18,04	+	19,71	+	+	+	+	+	+	PA	PA	PA	PA	4	b	
2018	997	Saucisson pour chien	Sausage for dog	st	st	st	st	-	N/A	29,56	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	4	b	
2018	998	Saucisson pour chien	Sausage for dog	+p	+p	+p	+p	+	18,61	29,34	+	17,96	+	18,31	+	17,09	+	+	+	+	+	+	PA	PA	PA	PA	4	b	
2018	999	Viande fraîche pour animaux	Raw meat for dog	+M	+M	+M	+p	+	35,40	29,65	+	31,26	+	33,73	+	33,46	+	+	+	+	+	+	PA	PA	PA	PA	4	b	
2018	1000	Viande fraîche pour animaux	Raw meat for dog	+M	+M	+m	+M	+	28,24	29,67	+	26,09	+	27,06	+	29,06	+	+	+	+	+	+	PA	PA	PA	PA	4	b	
2018	2114	Terrine pour chien à la volaille	Dog terrine	+p	+p	+M	+p	+	18,52	29,10	+	18,70	+	18,47	+	18,75	+	+	+	+	+	+	PA	PA	PA	PA	4	b	
2018	2115	Terrine pour chat au bœuf	Cat terrine	+p	+p	+p	+p	+	18,85	29,10	+	18,51	+	18,66	+	18,67	+	+	+	+	+	+	PA	PA	PA	PA	4	b	
2018	3533	Terrine pour chat (au lapin)	Terrine for cat	+p	+p	+p	+p	+	20,69	28,78	+	19,78	+	19,84	+	19,99	+	+	+	+	+	+	PA	PA	PA	PA	4	b	
2018	3534	Terrine pour chien (agneau et légumes)	Terrine for dog	+p	+p	+p	+p	+	20,16	28,88	+	19,27	+	19,40	+	19,48	+	+	+	+	+	+	PA	PA	PA	PA	4	b	
2018	3535	Saucisson pour chien	Sausage for dog	+p	+p	+p	+p	+	20,04	29,01	+	19,01	+	19,47	+	19,17	+	+	+	+	+	+	PA	PA	PA	PA	4	b	

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				XLD	ASAP	XLD	ASAP		Bio-Rad CFX96			ABS 7500		Agilent MX3005P		Roche LightCycler 480II		Bio-Rad CFX96	ABS 7500	Agilent MX3005P	Roche LightCycler 480II	Bio-Rad CFX96	ABS 7500	Agilent MX3005P	Roche LightCycler 480II				
									Cq (FAM)	Cq (HEX)	Result	Cq (FAM)	Result	Cq (FAM)	Result	Cq (FAM)												Result	
2018	3536	Saucisson pour chien	Sausage for dog	+p	+p	+p	+p	+	18,48	28,84	+	17,77	+	17,55	+	17.64	+	+	+	+	+	+	+	PA	PA	PA	PA	4	b
2018	5334	Terrine pour chien au bœuf	Terrine for dog	+p	+p	+p	+p	+	18,43	29,59	+	18,48	+	17,79	+	18.03	+	+	+	+	+	+	+	PA	PA	PA	PA	4	b
2018	5335	Terrine pour chien au bœuf	Terrine for dog	+p	+p	+p	+p	+	18,21	29,60	+	18,30	+	17,91	+	18.26	+	+	+	+	+	+	+	PA	PA	PA	PA	4	b
2018	5336	Saucisson pour chien au bœuf	Sausage for dog	st	st	st	st	-	N/A	29,57	-	38,53	+	N/A	-	35.00	+	-	-	-	-	-	-	NA	PPNA	NA	PPNA	4	b
2018	5337	Saucisson pour chien au bœuf	Sausage for dog	st	st	st	st	-	N/A	29,64	-	39,18	+	38,32	+	N/A	-	-	-	-	-	-	-	NA	PPNA	PPNA	NA	4	b
2018	5494	Saucisson pour chien	Sausage for dog	st	st	st	st	-	N/A	29,73	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	NA	NA	NA	NA	4	b
2018	5495	Saucisson pour chien	Sausage for dog	st	st	st	st	-	N/A	29,65	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	NA	NA	NA	NA	4	b
2018	5496	Viande bovine pour animaux	Raw meat for animals	-	-	-	-	-	N/A	29,63	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	NA	NA	NA	NA	4	b
2018	5497	Terrine pour chien à la volaille	Terrine for dog	st	st	st	st	-	N/A	29,69	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	NA	NA	NA	NA	4	b
2018	5498	Terrine pour chien au canard	Terrine for dog	st	st	st	st	-	N/A	29,58	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	NA	NA	NA	NA	4	b
2018	5499	Terrine pour chat au lapin	Terrine for cat	st	st	st	st	-	N/A	30,46	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	NA	NA	NA	NA	4	b
2018	5500	Terrine pour chat à la volaille	Terrine for cat	st	st	st	st	-	N/A	30,86	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	NA	NA	NA	NA	4	b
2018	5501	Saucisson pour chien	Sausage for dog	+p	+p	+p	+p	+	18,14	28,70	+	17,45	+	17,05	+	17.58	+	+	+	+	+	+	+	PA	PA	PA	PA	4	b
2018	5502	Viande bovine pour animaux	Raw meat for animals	+1/2	+M	+M	+p	+	30,68	28,78	+	28,58	+	28,98	+	29.54	+	+	+	+	+	+	+	PA	PA	PA	PA	4	b
2018	5630	Bouchées pour chien à la volaille	Dog feed	st	st	st	st	-	N/A	28,61	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	NA	NA	NA	NA	4	b
2018	5631	Boulettes en sauce pour chat au bœuf	Cat feed	st	st	st	st	-	N/A	28,88	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	NA	NA	NA	NA	4	b
2018	5632	Bouchées pour chat au poisson et aux légumes	Cat feed	st	st	st	st	-	N/A	29,31	-	35,23	+	N/A	-	N/A	-	-	-	-	-	-	-	NA	PPNA	NA	NA	4	b

PRODUCTION ENVIRONMENTAL SAMPLES																													
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				XLD	ASAP	XLD	ASAP		Bio-Rad CFX96			ABS 7500		Agilent MX3005P		Roche LightCycler 480II		Bio-Rad CFX96	ABS 7500	Agilent MX3005P	Roche LightCycler 480II	Bio-Rad CFX96	ABS 7500	Agilent MX3005P	Roche LightCycler 480II				
									Cq (FAM)	Cq (HEX)	Result	Cq (FAM)	Result	Cq (FAM)	Result	Cq (FAM)												Result	
2018	587	Déchets éviscération	Residues (poultry industry)	-	-	-	-	-	N/A	29,18	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	NA	NA	NA	NA	5	a
2018	588	Déchets par terre	Residues (poultry industry)	-	-	-	-	-	N/A	29,61	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	5	a	
2018	589	Déchets tête de volaille	Residues (poultry industry)	-	-	-	-	-	N/A	29,84	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	5	a	
2018	590	Déchets patte volaille	Residues (poultry industry)	-	-	-	-	-	N/A	29,90	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	5	a	
2018	2237	Résidu (production pâté de lapin)	Residues (Pâté production)	+1/2	+M	+M	+M	+	26,99	29,60	+	25,11	+	26,43	+	26,64	+	+	+	+	+	PA	PA	PA	PA	5	a		
2018	2238	Résidu (production pâté de lapin)	Residues (Pâté production)	+m/+	+1/2	+M	+M	+	29,51	29,43	+	29,66	+	29,26	+	28,97	+	+	+	+	+	PA	PA	PA	PA	5	a		
2018	2463	Chutes découpe porc (ramassées au sol)	Residues (pork environment)	+d(3) <i>Citrobacter youngae</i>	-	-	-	-	N/A	29,83	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	5	a	
2018	2464	Chutes découpe bœuf (ramassées au sol)	Residues (beef environment)	-	-	-	-	-	N/A	29,78	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	5	a	
2018	2474	Déchet cou de volaille	Residues (poultry environment)	-	-	-	-	-	N/A	29,92	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	5	a	
2018	3741	Chutes découpe de bœuf au sol	Residues (beef environment)	+m	+1/2	+M	+1/2	+	28,17	30,00	+	26,12	+	27,17	+	27,46	+	+	+	+	+	PA	PA	PA	PA	5	a		
2018	3742	Chutes découpe de bœuf au sol	Residues (beef environment)	+M	+M	+M	+M	+	24,15	29,49	+	23,01	+	23,58	+	23,29	+	+	+	+	+	PA	PA	PA	PA	5	a		
2018	3743	Chutes découpe de porc au sol	Residues (pork environment)	+M	+1/2	+M	+1/2	+	32,12	30,14	+	30,06	+	30,97	+	30,76	+	+	+	+	+	PA	PA	PA	PA	5	a		
2018	3744	Chutes découpe de porc au sol	Residues (pork environment)	+(3)	+m	+M	+M	+	33,77	30,40	+	31,34	+	32,46	+	32,28	+	+	+	+	+	PA	PA	PA	PA	5	a		
2018	3745	Chiffonnette poussière (environnement volaille)	Dust wipe (poultry environment)	+m	+1/2	+M	+M	+	25,29	29,71	+	25,55	+	25,08	+	25,20	+	+	+	+	+	PA	PA	PA	PA	5	a		
2018	3746	Chiffonnette poussière (environnement volaille)	Dust wipe (poultry environment)	+M	+m	+M	+M	+	31,11	30,25	+	29,31	+	30,24	+	30,69	+	+	+	+	+	PA	PA	PA	PA	5	a		
2018	4265	Poussière (environnement laiterie)	Dusts (dairy industry)	+M	+1/2	+M	+m	+	32,08	29,35	+	32,36	+	32,12	+	30,79	+	+	+	+	+	PA	PA	PA	PA	5	a		
2018	4266	Poussière (environnement laiterie)	Dusts (dairy industry)	+p	+p	+p	+p	+	20,10	29,14	+	20,14	+	20,15	+	20,06	+	+	+	+	+	PA	PA	PA	PA	5	a		
2018	4267	Poussière (environnement laiterie)	Dusts (dairy industry)	+p	+M	+p	+p	+	21,82	29,17	+	22,27	+	22,40	+	22,06	+	+	+	+	+	PA	PA	PA	PA	5	a		
2018	4268	Poussière (environnement laiterie)	Dusts (dairy industry)	+M	+1/2	+M	+p	+	36,02	29,28	+	37,52	+	37,50	+	33,98	+	+	+	+	+	PA	PA	PA	PA	5	a		
2018	4269	Poussière (environnement laiterie)	Dusts (dairy industry)	+p	+p	+p	+p	+	22,06	29,24	+	23,34	+	22,15	+	21,99	+	+	+	+	+	PA	PA	PA	PA	5	a		
2018	4442	Poussières (environnement laiterie)	Dusts (dairy industry)	-	-	-	-	-	N/A	29,90	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	5	a	

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				XLD	ASAP	XLD	ASAP		Bio-Rad CFX96			ABS 7500		Agilent MX3005P		Roche LightCycler 480II		Bio-Rad CFX96	ABS 7500	Agilent MX3005P	Roche LightCycler 480II	Bio-Rad CFX96	ABS 7500	Agilent MX3005P	Roche LightCycler 480II			
									Cq (FAM)	Cq (HEX)	Result	Cq (FAM)	Result	Cq (FAM)	Result	Cq (FAM)												Result
2018	4443	Poussières (environnement laiterie)	Dusts (dairy industry)	st	st	st	-	-	N/A	29,79	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	5	a
2018	575	Eau de process caniveau sortie	Process water (poultry industry)	-	-	-	-	-	N/A	29,43	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	5	b
2018	576	Eau de process échaudoir	Process water (poultry industry)	-	-	-	-	-	N/A	29,49	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	5	b
2018	577	Eau de process plumeuse	Process water (poultry industry)	-	-	-	-	-	N/A	29,44	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	5	b
2018	578	Eau de process vidange bac électro	Process water (poultry industry)	-	-	-	-	-	N/A	29,39	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	5	b
2018	579	Eau de sortie bac électro	Process water (poultry industry)	-	-	-	-	-	N/A	29,64	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	5	b
2018	580	Eau de rinçage caniveau fin	Cleaning water (poultry industry)	-	-	-	-	-	N/A	29,57	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	5	b
2018	581	Eau de rinçage bac éviscération	Cleaning water (poultry industry)	-	-	-	-	-	N/A	29,52	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	5	b
2018	2239	Eau de process (production pâté de lapin)	Process water (pâté production)	+p	+p	+p	+p	+	19,23	29,59	+	N/A	-	19,52	+	19,00	+	+	+	+	+	PA	ND	PA	PA	5	b	
2018	2240	Eau de process (production pâté de lapin)	Process water (pâté production)	+M	+M	+M	+M	+	23,51	29,84	+	24,65	+	23,15	+	23,18	+	+	+	+	+	PA	PA	PA	PA	5	b	
2018	2475	Eau de lavage viande de poulet	Cleaning water (poultry environment)	st	st	-	st	-	N/A	29,93	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	5	b
2018	2476	Eau de rinçage découpe de poulet	Cleaning water (poultry environment)	+p	+p	+p	+p	+	29,61	29,98	+	28,64	+	29,24	+	29,18	+	+	+	+	+	PA	PA	PA	PA	5	b	
2018	2479	Eau de rinçage (environnement produits de la mer)	Cleaning water (seafood environment)	+p	+p	+p	+p	+	28,45	29,66	+	28,44	+	28,27	+	28,20	+	+	+	+	+	PA	PA	PA	PA	5	b	
2018	3747	Eau en cours de process (production charcuterie)	Process water	st	st	st	st	-	N/A	30,30	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	5	b
2018	3748	Eau de rinçage (production charcuterie)	Cleaning water	+p	+p	+p	+p	+	19,10	29,89	+	18,33	+	19,57	+	18,61	+	+	+	+	+	PA	PA	PA	PA	5	b	
2018	4257	Eau de process (pâtisserie)	Process water	+p	+p	+p	+p	+	19,05	29,30	+	19,96	+	18,50	+	18,63	+	+	+	+	+	PA	PA	PA	PA	5	b	
2018	4258	Eau de process (pâtisserie)	Process water	+p	+p	+p	+p	+	19,69	29,51	+	19,49	+	18,53	+	18,92	+	+	+	+	+	PA	PA	PA	PA	5	b	
2018	4259	Eau de lavage sciage (environnement volaille)	Cleaning water (poultry environment)	+p	+p	+p	+p	+	20,65	29,41	+	19,02	+	20,01	+	19,87	+	+	+	+	+	PA	PA	PA	PA	5	b	
2018	4260	Eau de lavage caniveau (environnement volaille)	Cleaning water (poultry environment)	+m	+m	+M	+p	+	29,70	29,47	+	28,40	+	29,68	+	28,82	+	+	+	+	+	PA	PA	PA	PA	5	b	
2018	4261	Eau de lavage sciage (environnement volaille)	Cleaning water (poultry environment)	+p	+p	+p	+p	+	20,22	29,25	+	20,04	+	20,96	+	19,80	+	+	+	+	+	PA	PA	PA	PA	5	b	
2018	4262	Eau de lavage caniveau (environnement volaille)	Cleaning water (poultry environment)	+m	+m	+M	+M	+	27,57	29,73	+	26,64	+	26,96	+	26,86	+	+	+	+	+	PA	PA	PA	PA	5	b	
2018	4445	Eau de process production madeleines	Process water (cake)	st	st	st	st	-	N/A	29,62	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	5	b



PRODUCTION ENVIRONMENTAL SAMPLES																													
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				RVS		Mktn		Result	PCR								Confirmatory tests (ISO 6579-1)	Final result				Agreement							
				XLD	ASAP	XLD	ASAP		Bio-Rad CFX96			ABS 7500		Agilent MX3005P		Roche LightCycler 480II		Bio-Rad CFX96	ABS 7500	Agilent MX3005P	Roche LightCycler 480II	Bio-Rad CFX96	ABS 7500	Agilent MX3005P	Roche LightCycler 480II				
									Cq (FAM)	Cq (HEX)	Result	Cq (FAM)	Result	Cq (FAM)	Result	Cq (FAM)										Result			
2018	582	Chiffonnette tablier	Wipe (poultry industry)	-	-	-	-	-	N/A	29,42	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	NA	NA	NA	NA	5	c
2018	583	Chiffonnette échaudage	Wipe (poultry industry)	-	-	-	-	-	N/A	29,42	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	5	c	
2018	584	Chiffonnette table inox ficelage	Wipe (poultry industry)	-	-	-	-	-	N/A	29,57	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	5	c	
2018	585	Chiffonnette plumeuse	Wipe (poultry industry)	-	-	-	-	-	N/A	29,35	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	5	c	
2018	586	Chiffonnette bac éviscération	Wipe (poultry industry)	-	-	-	-	-	N/A	29,39	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	5	c	
2018	2241	Ecouvillon hâchoir (production pâté de lapin)	Swab (chopper pâté production)	+p	+p	+p	+p	+	19,02	29,54	+	19,34	+	18,74	+	18,98	+	+	+	+	+	+	PA	PA	PA	PA	5	c	
2018	2242	Ecouvillon pousoir (production pâté de lapin)	Swab (pâté production)	+p	+p	+p	+p	+	19,26	29,67	+	19,50	+	19,42	+	19,16	+	+	+	+	+	+	PA	PA	PA	PA	5	c	
2018	2243	Eponge pailasse (production pâté de lapin)	Sponge (pâté production)	+p	+p	+p	+p	+	18,86	29,68	+	19,11	+	18,74	+	18,90	+	+	+	+	+	+	PA	PA	PA	PA	5	c	
2018	2244	Eponge trémis pousoir (production pâté de lapin)	Sponge (pâté production)	+p	+p	+p	+p	+	19,37	29,50	+	21,30	+	18,46	+	19,08	+	+	+	+	+	+	PA	PA	PA	PA	5	c	
2018	2471	Chiffonnette sortie après saignée (environnement volaille)	Wipe (poultry environment)	+m/+	+m	+M	+p	+	28,02	29,85	+	27,26	+	27,22	+	27,35	+	+	+	+	+	+	PA	PA	PA	PA	5	c	
2018	2472	Chiffonnette goutière éviscération (environnement volaille)	Wipe (poultry environment)	+m	+M	+M	+p	+	20,96	29,60	+	21,63	+	20,49	+	20,06	+	+	+	+	+	+	PA	PA	PA	PA	5	c	
2018	2473	Chiffonnette crochet chaîne (environnement volaille)	Wipe (poultry environment)	+1/2	+p	+p	+p	+	21,42	29,57	+	21,30	+	22,40	+	21,27	+	+	+	+	+	+	PA	PA	PA	PA	5	c	
2018	2477	Chiffonnette récipient broyage (environnement bovin)	Wipe (beef environment)	+p	+p	+p	+p	+	29,26	30,23	+	29,00	+	29,02	+	27,94	+	+	+	+	+	+	PA	PA	PA	PA	5	c	
2018	2478	Chiffonnette table préparation (environnement bovin)	Wipe (beef environment)	st	st	st	st	-	N/A	29,62	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	5	c	
2018	2480	Chiffonnette pousoir (environnement produits de la mer)	Wipe (seafood environment)	st	st	st	st	-	N/A	29,81	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	5	c	
2018	2481	Chiffonnette (environnement produits de la mer)	Wipe (seafood environment)	-	-	-	-	-	N/A	29,84	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	5	c	
2018	3749	Chiffonnette surface après nettoyage et désinfection (production charcuterie)	Wipe after cleaning	+p	+p	+p	+p	+	18,44	30,02	+	17,56	+	18,81	+	18,31	+	+	+	+	+	+	PA	PA	PA	PA	5	c	
2018	3750	Eponge matériel après nettoyage et désinfection (production charcuterie)	Sponge after cleaning	st	st	st	st	-	N/A	30,57	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	5	c	

PRODUCTION ENVIRONMENTAL SAMPLES																														
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				RVS		Mktn		Result	PCR								Confirmatory tests (ISO 6579-1)	Final result				Agreement								
				XLD	ASAP	XLD	ASAP		Bio-Rad CFX96			ABS 7500		Agilent MX3005P		Roche LightCycler 480II		Bio-Rad CFX96	ABS 7500	Agilent MX3005P	Roche LightCycler 480II	Bio-Rad CFX96	ABS 7500	Agilent MX3005P	Roche LightCycler 480II					
									Cq (FAM)	Cq (HEX)	Result	Cq (FAM)	Result	Cq (FAM)	Result	Cq (FAM)												Result		
2018	4263	Chiffonnette après nettoyage et désinfection (éviscération volaille)	Wipe after cleaning (poultry environment)	-	-	-	-	-	N/A	29,54	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	-	NA	NA	NA	NA	5	c
2018	4264	Chiffonnette carcasse (environnement bovin)	Wipe (beef environment)	+p	+p	+p	+p	+	21,62	29,15	+	20,94	+	21,90	+	20,83	+	+	+	+	+	+	+	PA	PA	PA	PA	5	c	
2018	4444	Chiffonnette pousoir (merlu)	Wipe surface (Fish)	st	st	st	st	-	N/A	29,66	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	NA	NA	NA	NA	5	c	

PRIMARY PRODUCTION SAMPLES																												
Date of analysis	N° Sample	Product (French name)	Product	Reference method : ISO 6579-1 ♦					Alternative method : BioChek Salmonella Species DNA Test Kit																	Category	Type	
				MSRV		MKTn		Result	PCR (MKTn)								Confirmatory tests	Final result				Agreement						
				XLD	ASAP	XLD	ASAP		Bio-Rad CFX96			ABS 7500		Agilent MX3005P		Roche LightCycler 480II		Bio-Rad CFX96	ABS 7500	Agilent MX3005P	Roche LightCycler 480II	Bio-Rad CFX96	ABS 7500	Agilent MX3005P	Roche LightCycler 480II			
									Cq (FAM)	Cq (HEX)	Result	Cq (FAM)	Result	Cq (FAM)	Result	Cq (FAM)												Result
2018	944	Fécès porc	Pork faeces	/	/	-	-	-	N/A	37,54	-	N/A	-	N/A	-	N/A	-	-	-	-	-	NA	NA	NA	NA	6	a	
2018	945	Fécès porc	Pork faeces	/	/	-	-	-	N/A	34,18	-	36,49	+	N/A	-	N/A	-	-	-	-	-	NA	PPNA	NA	NA	6	a	
2018	946	Pédichiffonnette porc	Boot socks (pork)	-	-	-	-	-	N/A	35,01	-	N/A	-	N/A	-	N/A	-	-	-	-	-	NA	NA	NA	NA	6	a	
2018	952	Fécès volaille	Poultry faeces	/	/	-	-	-	N/A	34,77	-	N/A	-	N/A	-	N/A	-	-	-	-	-	NA	NA	NA	NA	6	a	
2018	953	Fécès volaille	Poultry faeces	-	-	-	-	-	N/A	37,14	-	N/A	-	N/A	-	N/A	-	-	-	-	-	NA	NA	NA	NA	6	a	
2018	954	Pédichiffonnette volaille	Boot socks (poultry)	-	-	-	-	-	N/A	36,46	-	37,31	+	N/A	-	N/A	-	-	-	-	-	NA	PPNA	NA	NA	6	a	
2018	955	Pédichiffonnette volaille	Boot socks (poultry)	-	-	-	-	-	N/A	33,86	-	N/A	-	N/A	-	N/A	-	-	-	-	-	NA	NA	NA	NA	6	a	
2018	1227	Fécès volaille	Poultry faeces	/	/	-	-	-	N/A N/A*	38,62 30,04*	i -*	N/A	-	N/A N/A*	i -*	N/A	-	-	-	-	-	NA	NA	NA	NA	6	a	
2018	1229	Pédichiffonnette (volaille)	Boot socks (poultry)	/	/	-	-	-	N/A	36,35	-	N/A	-	N/A	-	N/A	-	-	-	-	-	NA	NA	NA	NA	6	a	
2018	1279	Pédichiffonnette volaille	Boot socks (poultry)	-	-	-	-	-	N/A	36,27	-	N/A	-	N/A	-	N/A	-	-	-	-	-	NA	NA	NA	NA	6	a	
2018	1284	Pédichiffonnette porc	Boot socks (pork)	+p	+p	+p	+p	+	18,37	N/A	+	18,53	+	18,65	+	18,78	+	+	+	+	+	PA	PA	PA	PA	6	a	
2018	1285	Fécès porc	Pork faeces	-	-	-	-	-	14,95	N/A	+	17,55	+	16,89	+	17,81	+	+(x5 MSRV)	+	+	+	+	PD	PD	PD	PD	6	a
2018	1286	Fécès porc	Pork faeces	+p	+p	+p	+p	+	35,91	35,07	+	36,33	+	37,70	+	35,00	+	+	+	+	+	PA	PA	PA	PA	6	a	
2018	1289	Pédichiffonnette volaille	Boot socks (poultry)	+p	+p	+p	+p	+	16,89	N/A	+	17,49	+	17,54	+	17,67	+	+	+	+	+	PA	PA	PA	PA	6	a	
2018	1291	Fécès volaille	Poultry faeces	/	/	-	-	-	N/A	37,31	-	N/A	-	N/A	-	N/A	-	-	-	-	-	NA	NA	NA	NA	6	a	
2018	1292	Fécès volaille	Poultry faeces	+p	+p	+p	+p	+	18,53	N/A	+	18,87	+	18,76	+	19,01	+	+	+	+	+	PA	PA	PA	PA	6	a	
2018	1408	Fécès volaille	Poultry faeces	/	/	-	-	-	N/A	37,84	-	34,06	+	N/A	-	N/A	-	-	-	-	-	NA	PPNA	NA	NA	6	a	
2018	1409	Fécès volaille	Poultry faeces	/	/	-	-	-	N/A	35,29	-	N/A	-	N/A	-	N/A	-	-	-	-	-	NA	NA	NA	NA	6	a	
2018	1415	Pédichiffonnette volaille	Boot socks (poultry)	-	-	+ d / -	-	-	N/A	35,80	-	N/A	-	N/A	-	N/A	-	-	-	-	-	NA	NA	NA	NA	6	a	
2018	1416	Pédichiffonnette volaille	Boot socks (poultry)	-	-	-	-	-	N/A	36,17	-	N/A	-	N/A	-	N/A	-	-	-	-	-	NA	NA	NA	NA	6	a	
2018	1561	Fécès porc	Pork faeces	/	/	-	-	-	N/A	36,08	-	N/A	-	N/A	-	N/A	-	-	-	-	-	NA	NA	NA	NA	6	a	
2018	1562	Fécès porc	Pork faeces	/	/	-	-	-	N/A	37,06	-	N/A	-	N/A	-	N/A	-	-	-	-	-	NA	NA	NA	NA	6	a	
2018	1563	Pédichiffonnette porc	Boot socks (pork)	/	/	-	-	-	N/A	36,57	-	N/A	-	N/A	-	N/A	-	-	-	-	-	NA	NA	NA	NA	6	a	
2018	1648	Fécès porc	Pork faeces	/	/	+M	+p	+	17,58	N/A	+	17,85	+	17,59	+	18,12	+	+	+	+	+	PA	PA	PA	PA	6	a	
2018	1649	Fécès porc	Pork faeces	+p	+p	+M	+p	+	17,38	N/A	+	17,34	+	17,17	+	17,80	+	+	+	+	+	PA	PA	PA	PA	6	a	
2018	1650	Pédichiffonnette porc	Boot socks (pork)	+p	+p	+M	+M	+	17,21	N/A	+	17,55	+	17,19	+	17,78	+	+	+	+	+	PA	PA	PA	PA	6	a	
2018	1653	Fécès volaille	Poultry faeces	+p	+p	+M	+M	+	17,18	N/A	+	17,52	+	17,62	+	17,65	+	+	+	+	+	PA	PA	PA	PA	6	a	
2018	1654	Fécès volaille	Poultry faeces	+p	+p	-	-	+	N/A/N/A/N/A	35,23/37,05/34,78	-/-/-	N/A	-	N/A	-	N/A	-	+	-	-	-	ND	ND	ND	ND	6	a	
2018	4404	Fécès volaille	Poultry faeces	/	/	-	-	-	N/A	37,69	-	N/A	-	N/A N/A*	i -*	N/A	-	-	-	-	-	NA	NA	NA	NA	6	a	
2018	4405	Fécès volaille	Poultry faeces	/	/	-	-	-	N/A N/A*	38,31 29,31*	i -*	N/A	-	N/A N/A*	i -*	N/A	-	-	-	-	-	NA	NA	NA	NA	6	a	
2018	4406	Fécès volaille	Poultry faeces	/	/	-	-	-	N/A	37,12	-	N/A	-	N/A	-	N/A	-	-	-	-	-	NA	NA	NA	NA	6	a	

♦ Analyses performed according to the COFRAC accreditation  
 ADRIA Développement  
 Summary report (Version 0)  
 BioChek Salmonella species DNA Test Kit

PRIMARY PRODUCTION SAMPLES																														
Date of analysis	N° Sample	Product (French name)	Product	Reference method : ISO 6579-1 ♦					Alternative method : BioChek Salmonella Species DNA Test Kit																		Category	Type		
				MSRV		MKTn		Result	PCR (MKTn)								Confirmatory tests	Final result				Agreement								
				XLD	ASAP	XLD	ASAP		Bio-Rad CFX96			ABS 7500		Agilent MX3005P		Roche LightCycler 480II		Bio-Rad CFX96	ABS 7500	Agilent MX3005P	Roche LightCycler 480II	Bio-Rad CFX96	ABS 7500	Agilent MX3005P	Roche LightCycler 480II					
									Cq (FAM)	Cq (HEX)	Result	Cq (FAM)	Result	Cq (FAM)	Result	Cq (FAM)										Result				
2018	4407	Fécès volaille	Poultry faeces	/	/	-	-	-	N/A	38,33	i	N/A	i	N/A	i	N/A	-	-	-	-	-	-	-	-	NA	NA	NA	NA	6	a
2018	4408	Fécès volaille	Poultry faeces	/	/	-	-	-	N/A	37,80	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	-	NA	NA	NA	NA	6	a
2018	5519	Fécès volaille	Poultry faeces	-	-	+md	+1/2	+	25,03	34,16	+	24,96	+	24,55	+	25,30	+	+	+	+	+	+	+	PA	PA	PA	PA	6	a	
2018	5520	Fécès volaille	Poultry faeces	-	-	-	-	-	N/A	32,09	-	36,79	+	N/A	-	35,00	+	-	-	-	-	-	-	NA	PPNA	NA	PPNA	6	a	
2018	5524	Fécès volaille	Poultry faeces	+p	+p	+md	+m	+	26,10	31,51	+	26,70	+	26,14	+	26,67	+	+	+	+	+	+	+	PA	PA	PA	PA	6	a	
2018	5528	Fécès volaille	Poultry faeces	-	-	-	-	-	N/A	31,70	-	N/A	i	N/A	-	N/A	-	-	-	-	-	-	-	NA	NA	NA	NA	6	a	
2018	5529	Fécès volaille	Poultry faeces	+p	+p	+md (NC onto TSA)	-	+	N/A/N/A/N/A	31,49/31,35/31,22	-/-	N/A	-	N/A	-	35,00	+	+	-	-	+	+	+	ND	ND	ND	PA	6	a	
2018	5531	Fécès volaille	Poultry faeces	-	-	-	-	-	N/A	32,69	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	NA	NA	NA	NA	6	a	
2018	5535	Fécès volaille	Poultry faeces	-	-	-	-	-	N/A	32,24	-	34,82	+	N/A	-	N/A	-	-	-	-	-	-	-	NA	PPNA	NA	NA	6	a	
2018	5536	Fécès volaille	Poultry faeces	-	-	-	-	-	N/A	31,25	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	NA	NA	NA	NA	6	a	
2018	5671	Pédichiffonnette (maternité porc)	Boot sock (pork environment)	+p	+p	+M	+1/2	+	19,45	39,74	+	19,88	+	19,94	+	20,08	+	+	+	+	+	+	PA	PA	PA	PA	6	a		
2018	5672	Pédichiffonnette (post sevrage porc)	Boot sock (pork environment)	+p	+p	+(1)	+m	+	25,22	38,35	+	25,40	+	25,09	+	25,56	+	+	+	+	+	+	PA	PA	PA	PA	6	a		
2018	5763	Pédichiffonnette (environnement volaille)	Boot sock (poultry environment)	+p	+p	+1/2	+M	+	21,68	36,45	+	21,30	+	21,43	+	21,29	+	+	+	+	+	+	PA	PA	PA	PA	6	a		
2018	5764	Fécès volaille	Poultry faeces	+p	+p	+m	-	+	38,03	32,77	+	38,27	+	N/A	-	35,00	+	+	+	-	+	+	PA	PA	ND	PA	6	a		
2018	947	Eau abreuvoir porc	Water from drinkers (pork)	/	/	st	st	-	N/A	33,70	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	6	b		
2018	948	Eau abreuvoir porc	Water from drinkers (pork)	/	/	st	st	-	N/A	35,53	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	6	b		
2018	949	Chiffonnette poussière environnement porc	Dust wipe (pork environment)	/	/	-	-	-	N/A	33,63	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	6	b		
2018	950	Chiffonnette porc	Wipe (pork environment)	/	/	-	-	-	N/A	33,53	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	6	b		
2018	951	Eau abreuvoir volaille	Water from drinkers (poultry)	/	/	-	-	-	N/A	36,46	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	6	b		
2018	956	Chiffonnette abreuvoir	Wipe (poultry drinker)	/	/	-	-	-	N/A	34,68	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	6	b		
2018	957	Chiffonnette poussière	Dust wipe (poultry environment)	/	/	-	-	-	N/A	35,10	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	6	b		
2018	958	Litière volaille	Poultry litter	-	-	-	-	-	N/A	35,62	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	6	b		
2018	1228	Eau d'abreuvoir	Water from drinkers (poultry)	/	/	st	st	-	N/A	33,26	-	34,73	+	N/A	-	N/A	-	-	-	-	-	-	NA	PPNA	NA	NA	6	b		
2018	1230	Litière volaille	Poultry litter	/	/	-	-	-	N/A	34,71	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	6	b		
2018	1231	Chiffonnette trémis aliment volaille	Wipe (poultry feed)	/	/	-	-	-	N/A	34,73	-	34,76	+	N/A	-	N/A	-	-	-	-	-	-	NA	PPNA	NA	NA	6	b		
2018	1232	Chiffonnette abreuvoir	Wipe (poultry drinker)	/	/	-	-	-	N/A	34,17	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	NA	NA	NA	NA	6	b		

PRIMARY PRODUCTION SAMPLES																													
Date of analysis	N° Sample	Product (French name)	Product	Reference method : ISO 6579-1 ♦					Alternative method : BioChek Salmonella Species DNA Test Kit																Category	Type			
				MSRV		MKTTn		Result	PCR (MKTTn)								Confirmatory tests	Final result				Agreement							
				XLD	ASAP	XLD	ASAP		Bio-Rad CFX96			ABS 7500		Agilent MX3005P		Roche LightCycler 480II		Bio-Rad CFX96	ABS 7500	Agilent MX3005P	Roche LightCycler 480II	Bio-Rad CFX96	ABS 7500	Agilent MX3005P			Roche LightCycler 480II		
									Cq (FAM)	Cq (HEX)	Result	Cq (FAM)	Result	Cq (FAM)	Result	Cq (FAM)												Result	
2018	1278	Eau abreuvoir volaille	Water from drinker (poultry)	/	/	st	st	-	N/A	32,98	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	NA	NA	NA	NA	6	b
2018	1280	Chiffonnette mangeoire volaille	Wipe (poultry feed)	/	/	-	-	-	N/A	33,54	-	36,31	+	N/A	-	N/A	-	-	-	-	-	-	NA	PPNA	NA	NA	6	b	
2018	1281	Chiffonnette mur poulailler	Wipe (poultry environment)	+p	+p	+M	+M	+	17,89	N/A	+	18,48	+	18,25	+	18,55	+	+	+	+	+	PA	PA	PA	PA	6	b		
2018	1282	Litière volaille	Poultry litter	-	-	-	-	-	N/A	35,54	-	N/A	-	N/A	-	N/A	-	-	-	-	-	NA	NA	NA	NA	6	b		
2018	1283	Eau abreuvoir porc	Water from drinkers (pork)	/	/	st	st	-	N/A	33,20	-	N/A	-	N/A	-	N/A	-	-	-	-	-	NA	NA	NA	NA	6	b		
2018	1287	Chiffonnette environnement porc	Wipe (pork environment)	+p	+p	+p	+p	+	17,88	N/A	+	17,95	+	17,84	+	18,32	+	+	+	+	+	PA	PA	PA	PA	6	b		
2018	1288	Chiffonnette environnement porc	Wipe (pork environment)	+p	+p	+p	+p	+	17,90	N/A	+	18,15	+	18,10	+	18,21	+	+	+	+	+	PA	PA	PA	PA	6	b		
2018	1290	Chiffonnette grains volaille	Wipe (poultry feed)	+p	+p	+p	+p	+	18,10	N/A	+	18,48	+	18,61	+	18,69	+	+	+	+	+	PA	PA	PA	PA	6	b		
2018	1410	Chiffonnette poussières	Dust wipe	/	/	-	-	-	N/A	33,70	-	N/A	-	N/A	-	N/A	-	-	-	-	-	NA	NA	NA	NA	6	b		
2018	1411	Eau abreuvoir	Water from drinker (poultry)	/	/	-	-	-	N/A	33,75	-	N/A	-	N/A	-	N/A	-	-	-	-	-	NA	NA	NA	NA	6	b		
2018	1412	Litière volaille	Poultry litter	/	/	-	-	-	N/A	36,45	-	N/A	-	N/A	-	N/A	-	-	-	-	-	NA	NA	NA	NA	6	b		
2018	1413	Chiffonnette abreuvoir	Wipe (poultry drinker)	/	/	-	-	-	N/A	34,43	-	N/A	-	N/A	-	N/A	-	-	-	-	-	NA	NA	NA	NA	6	b		
2018	1414	Chiffonnette bol aliment	Wipe (poultry feed)	/	/	-	-	-	N/A	33,59	-	34,36	+	36,04	+	N/A	-	-	-	-	-	NA	PPNA	PPNA	NA	6	b		
2018	1560	Eau abreuvoir porc	Water from drinkers (pork)	/	/	-	-	-	N/A	N/A 29,70*	i	N/A	-	N/A	-	N/A	-	-	-	-	-	NA	NA	NA	NA	6	b		
2018	1564	Chiffonnette poussière	Dust wipe (pork environment)	/	/	-	-	-	N/A	34,04	-	N/A	-	N/A	-	N/A	-	-	-	-	-	NA	NA	NA	NA	6	b		
2018	1565	Chiffonnette paroi murale	Wipe (pork environment)	/	/	-	-	-	N/A	34,58	-	N/A	-	N/A	-	N/A	-	-	-	-	-	NA	NA	NA	NA	6	b		
2018	1647	Eau abreuvoir porc	Water from drinker (pork)	+p	+p	+M	+M	+	18,82	N/A	+	19,08	+	18,86	+	19,15	+	+	+	+	+	PA	PA	PA	PA	6	b		
2018	1651	Chiffonnette paroi murale	Wipe (pork environment)	/	/	-	-	-	N/A	33,34	-	32,59	+	N/A	-	N/A	-	-	-	-	-	NA	PPNA	NA	NA	6	b		
2018	1652	Eau abreuvoir volaille	Water from drinker (poultry)	+M	+p	+M	+M	+	18,25	38,01	+	18,84	+	18,04	+	18,86	+	+	+	+	+	PA	PA	PA	PA	6	b		
2018	4409	Litière volaille	Poultry litter	/	/	st	st	-	N/A	33,78	-	N/A	-	N/A	-	N/A	-	-	-	-	-	NA	NA	NA	NA	6	b		
2018	4410	Litière volaille	Poultry litter	/	/	-	-	-	N/A	35,73	-	N/A	-	N/A	-	N/A	-	-	-	-	-	NA	NA	NA	NA	6	b		
2018	4411	Eau abreuvoir volaille	Water from drinker (poultry)	/	/	st	st	-	N/A	33,72	-	N/A	-	N/A	-	N/A	-	-	-	-	-	NA	NA	NA	NA	6	b		
2018	4803	Chiffonnette (porc)	Wipe (pork environment)	+p	+p	+m	+1/2	+	20,35	39,30	+	19,76	+	20,83	+	21,16	+	+	+	+	+	PA	PA	PA	PA	6	b		

PRIMARY PRODUCTION SAMPLES																														
Date of analysis	N° Sample	Product (French name)	Product	Reference method : ISO 6579-1 ♦					Alternative method : BioChek Salmonella Species DNA Test Kit																	Category	Type			
				MSRV		MKTn		Result	PCR (MKTn)								Confirmatory tests	Final result				Agreement								
				XLD	ASAP	XLD	ASAP		Bio-Rad CFX96			ABS 7500		Agilent MX3005P		Roche LightCycler 480II		Bio-Rad CFX96	ABS 7500	Agilent MX3005P	Roche LightCycler 480II	Bio-Rad CFX96	ABS 7500	Agilent MX3005P	Roche LightCycler 480II					
									Cq (FAM)	Cq (HEX)	Result	Cq (FAM)	Result	Cq (FAM)	Result	Cq (FAM)												Result		
2018	5540	Chiffonnette fond de couvoir poussin	Wipe (poultry environment)	-	-	-	-	-	N/A	30,73	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	-	NA	NA	NA	NA	6	b
2018	5541	Chiffonnette fond de couvoir poussin	Wipe (poultry environment)	-	-	-	-	-	N/A	30,70	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	-	NA	NA	NA	NA	6	b
2018	5760	Chiffonnette fond de couvoir (environnement volaille)	Hatchery wipe (poultry environment)	+p	+p	+M	+p	+	20,37	36,49	+	20,24	+	19,84	+	20,39	+	+	+	+	+	+	+	PA	PA	PA	PA	6	b	
2018	5761	Chiffonnette fond de couvoir (environnement volaille)	Hatchery wipe (poultry environment)	/	/	st	st	-	N/A	32,01	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	NA	NA	NA	NA	6	b	
2018	5762	Eau d'abreuvoir (environnement volaille)	Water from drinker (poultry environment)	/	/	st	st	-	N/A	31,02	-	36,17	+	N/A	-	N/A	-	-	-	-	-	-	-	NA	PPNA	NA	NA	6	b	
2018	5765	Eau abreuvoir (verraterie porc)	Water from drinker (pork environment)	/	/	-	-	-	N/A	32,09	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	NA	NA	NA	NA	6	b	
2018	5766	Eau abreuvoir (post sevrage porc)	Water from drinker (pork environment)	+p	+p	+m	+1/2	+	24,09	32,88	+	23,82	+	23,76	+	24,28	+	+	+	+	+	+	+	PA	PA	PA	PA	6	b	
2018	5767	Chiffonnette poussière (maternité porc)	Dust wipe (poultry environment)	+p	+p	+M	+M	+	21,35	39,19	+	21,50	+	21,23	+	21,86	+	+	+	+	+	+	+	PA	PA	PA	PA	6	b	
2018	5768	Ecouvillon cloison (environnement porc)	Swab (pork environment)	/	/	-	-	-	N/A	31,81	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	NA	NA	NA	NA	6	b	
2018	5769	Eau abreuvoir (environnement volaille)	Water from drinker (poultry environment)	+p	+p	+M	+M	+	20,34	38,12	+	20,22	+	20,27	+	20,52	+	+	+	+	+	+	+	PA	PA	PA	PA	6	b	
2018	5770	Chiffonnette abreuvoir (environnement volaille)	Wipe (poultry environment)	+p	+p	+M	+M	+	19,91	34,44	+	19,62	+	20,04	+	19,96	+	+	+	+	+	+	+	PA	PA	PA	PA	6	b	
2018	5771	Ecouvillon perchoir (environnement volaille)	Swab (poultry environment)	+p	+p	+M	+p	+	18,03	37,56	+	17,81	+	17,87	+	18,09	+	+	+	+	+	+	+	PA	PA	PA	PA	6	b	

**Appendix 6 – Relative level of detection study: raw data**

Mayonnaise based deli salad (piemontese)

Salmonella Mbandaka Ad914

Seeding 48h at 3°C±2°C

BPW 16h at 37°C

Total viable count: 3,2.10<sup>3</sup> CFU/g(1119-1148) and 2,0.10<sup>3</sup> CFU/g (1728-1732)

\* : DNA extract diluted (1/10)

Sample N°	Level	Inoculation level (cfu/sample)	Reference method : ISO 6579-1*					Positive Results/Total	Alternative method: BioChek Salmonella species DNA Test Kit												Positive Results/Total for all the thermocyclers	
			RVS broth		MKTTn broth		Result		PCR						Final result Bio-Rad CFX96	Final result ABS 7500	Final result Agilent MX3005P	Final result Roche LightCycler 480 II				
			XLD	ASAP	XLD	ASAP			Bio-Rad CFX96		ABS 7500		Agilent MX3005P						Roche LightCycler 480II			
Cq (FAM)	Cq (HEX)	Result	Cq (FAM)	Result	Cq (FAM)	Result	Cq (FAM)	Result	Cq (FAM)	Result	Cq (FAM)	Result										
1119	0	0	-	-	-	-	-	N/A	29,63	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	
1120			-	-	-	-	-	N/A	30,01	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	
1121			-	-	-	-	-	N/A	29,90	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	
1122			-	-	-	-	-	37,04/N/A/N/A	29,66/29,44/29,80	+/-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-
1123			-	-	-	-	-	N/A	30,14	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-
1124	1	0,6	-	-	-	-	-	N/A	29,99	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	
1125			-	-	-	-	-	N/A	30,11	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	
1126			+M	+M	+M	+M	+	25,21	29,71	+	25,51	+	24,43	+	24,57	+	+	+	+	+	+	
1127			+M	+M	+M	+M	+	23,69	29,60	+	22,67	+	23,57	+	23,55	+	+	+	+	+	+	+
1128			+M	+M	+M	+M	+	23,44	29,34	+	22,61	+	23,07	+	23,18	+	+	+	+	+	+	+
1129			-	-	-	-	-	N/A	30,02	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-
1130			-	-	-	-	-	N/A	29,84	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-
1131			+M	+M	+M	+M	+	23,35	29,52	+	22,19	+	22,40	+	22,00	+	+	+	+	+	+	+
1132			-	-	-	-	-	N/A	29,94	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-
1133			+M	+M	+M	+M	+	22,95	29,76	+	22,47	+	22,94	+	22,68	+	+	+	+	+	+	+
1134			-	-	-	-	-	N/A	29,92	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-
1135			-	-	-	-	-	N/A	29,58	-	N/A	-	N/A	i _*	N/A	-	-	-	-	-	-	-
1136			+M	+M	+M	+M	+	22,26	29,48	+	21,88	+	21,92	+	22,49	+	+	+	+	+	+	+
1137			-	-	-	-	-	N/A	29,69	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-
1138			-	-	-	-	-	N/A	29,61	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-
1139	-	-	-	-	-	N/A	29,77	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-		
1140	-	-	-	-	-	N/A	30,00	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-		
1141	+M	+M	+M	+M	+	22,92	29,72	+	22,25	+	22,31	+	22,51	+	+	+	+	+	+	+		
1142	+M	+M	+M	+M	+	21,24	29,77	+	20,47	+	21,78	+	21,65	+	+	+	+	+	+	+		
1143	+M	+M	+M	+M	+	24,70	29,98	+	23,86	+	23,97	+	24,08	+	+	+	+	+	+	+		
1728	3	4,4	+p	+p	+p	+p	+	21,46	29,23	+	20,97	+	21,28	+	20,70	+	+	+	+	+	+	
1729			+p	+p	+p	+p	+	20,67	29,40	+	21,41	+	20,45	+	20,70	+	+	+	+	+	+	
1730			+p	+p	+p	+p	+	21,34	29,58	+	20,88	+	20,88	+	21,05	+	+	+	+	+	+	
1731			+p	+p	+p	+p	+	22,22	28,76	+	23,03	+	22,42	+	22,22	+	+	+	+	+	+	+
1732			+p	+p	+p	+p	+	21,04	29,39	+	18,49	+	20,89	+	20,04	+	+	+	+	+	+	+

\* Analyses performed according to the COFRAC accreditation

Ground beef  
 Salmonella Typhimurium AOOC060  
 Seeding 48h at 3°C±2°C  
 BPW 16h at 37°C  
 Total viable count: 1,4.10<sup>3</sup> CFU/g

Sample N°	Level	Inoculation level (cfu/sample)	Reference method : ISO 6579-1♦					Alternative method: BioChek Salmonella species DNA Test Kit															
			RVS broth		MKTTn broth		Result	Positive Results/Total	PCR								Final result Bio-Rad CFX96	Final result ABS 7500	Final result Agilent MX3005P	Final result Roche LightCycler 480 II	Positive Results/Total for all the thermocyclers		
			XLD	ASAP	XLD	ASAP			Bio-Rad CFX96			ABS 7500		Agilent MX3005P		Roche LightCycler 480II							
									Cq (FAM)	Cq (HEX)	Result	Cq (FAM)	Result	Cq (FAM)	Result	Cq (FAM)						Result	
676	0	0	-	-	-	-	-	N/A	29,03	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	
677			st	st	-	-	-	N/A	29,23	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	
678			st	st	st	st	-	N/A	29,09	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	
679			st	st	-	-	-	N/A	29,18	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	-
680			st	st	st	st	-	N/A	29,32	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	-
681	1	0,7	st	st	st	-	-	N/A	29,18	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	
682			+p	+p	+p	+p	+	24,60	29,19	+	22,88	+	23,78	+	23,63	+	+	+	+	+	+	+	
683			+M	+p	+p	+M	+	19,92	28,79	+	19,58	+	19,90	+	19,96	+	+	+	+	+	+	+	
684			+p	+p	+p	+p	+	20,21	28,68	+	19,17	+	20,18	+	19,85	+	+	+	+	+	+	+	
685			+p	+p	+p	+p	+	20,42	28,93	+	19,68	+	19,89	+	20,00	+	+	+	+	+	+	+	
686			+p	+p	+p	+p	+	20,40	28,78	+	19,73	+	20,21	+	20,10	+	+	+	+	+	+	+	
687			st	st	-	-	-	N/A	29,28	-	N/A	-	35,75	+	N/A	-	-	-	-	-	-	-	
688			st	st	st	st	-	N/A	29,16	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	
689			-	-	-	-	-	N/A	29,36	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	
690			st	st	st	st	-	N/A	29,30	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	
691			st	st	-	-	-	N/A	29,20	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	
692			+p	+p	+p	+p	+	19,84	28,86	+	18,33	+	19,01	+	19,82	+	+	+	+	+	+	+	
693			+p	+p	+p	+p	+	20,18	28,60	+	19,97	+	20,58	+	19,65	+	+	+	+	+	+	+	
694			-	-	-	-	-	N/A	29,05	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	
695			+p	+p	+p	+p	+	N/A/N/A/N/A	28,81/29,67/29,64	-/-	18,74	+	28,77	+	N/A	-	-	+	+	+	-	-	
696	st	st	st	st	-	N/A	29,06	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-			
697	+p	+p	+p	+p	+	20,53	28,92	+	19,44	+	20,06	+	20,19	+	+	+	+	+	+	+			
698	+p	+p	+p	+p	+	20,02	28,99	+	19,80	+	20,17	+	20,03	+	+	+	+	+	+	+			
699	+p	+p	+p	+p	+	20,10	28,67	+	19,98	+	20,06	+	20,12	+	+	+	+	+	+	+			
700	+p	+p	+p	+p	+	19,52	28,74	+	18,82	+	19,75	+	19,51	+	+	+	+	+	+	+			
701	2	2,2	+p	+p	+p	+p	+	19,50	28,48	+	18,52	+	20,26	+	19,68	+	+	+	+	+	+		
702			st	-	st	-	-	N/A	28,95	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-		
703			+M	+M	+M	+M	+	20,04	29,01	+	19,83	+	19,94	+	19,77	+	+	+	+	+	+		
704			+p	+p	+p	+p	+	20,16	28,77	+	18,98	+	19,55	+	19,69	+	+	+	+	+	+		
705			+p	+p	+p	+p	+	20,73	29,04	+	18,38	+	19,90	+	19,50	+	+	+	+	+	+		

♦ Analyses performed according to the COFRAC accreditation  
 ADRIA Développement  
 Summary report (Version 0)  
 BioChek Salmonella species DNA Test Kit



**Dog croquettes**  
**Salmonella Derby Ad1878**  
**Seeding lyophilized strain 2 weeks at ambient temperature**  
**BPW 16h at 37°C**  
 Total viable count: 2,0.10<sup>2</sup>CFU/g

\* : DNA extract diluted (1/10)

Sample N°	Level	Inoculation level (cfu/sample)	Reference method : ISO 6579-1 ♦					Alternative method: BioChek Salmonella species DNA Test Kit																		
			RVS broth		MKTTn broth		Result	Positive Results/Total	PCR								Final result Bio-Rad CFX96	Final result ABS 7500	Final result Agilent MX3005P	Final result Roche LightCycler 480 II	Positive Results/Total for all the thermocyclers					
			XLD	ASAP	XLD	ASAP			Bio-Rad CFX96			ABS 7500		Agilent MX3005P		Roche LightCycler 480II										
									Cq (FAM)	Cq (HEX)	Result	Cq (FAM)	Result	Cq (FAM)	Result	Cq (FAM)						Result				
4518	0	0	st	st	st	st	-	0/5	N/A	30,18	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	-		
4519			st	st	st	st	-		N/A	29,59	-	N/A	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	
4520			st	st	st	st	-		N/A	30,07	-	N/A	i	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	
4521			st	st	st	st	-		N/A	29,75	-	N/A	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	-
4522			st	st	st	st	-		N/A	29,89	-	N/A	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	-
4593	1	2,1	st	st	st	st	-	6/20	N/A	29,76	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	-		
4594			st	st	st	st	-		N/A	29,57	-	N/A	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	
4595			st	st	st	st	-		N/A	29,43	-	N/A	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	
4596			st	st	st	st	-		N/A	29,42	-	N/A	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	
4597			+p	+p	+p	+p	+		28,19	29,12	+	27,45	+	27,61	+	27,81	+	+	+	+	+	+	+	+	+	+
4598			st	st	st	st	-		N/A	29,53	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	-	-	-
4599			st	st	st	st	-		N/A	29,78	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	-	-	-
4600			+p	+p	+p	+p	+		25,82	29,17	+	24,52	+	25,67	+	25,56	+	+	+	+	+	+	+	+	+	+
4601			st	st	st	st	-		N/A	29,53	-	N/A	-	38,53	+	N/A	-	-	-	-	-	-	-	-	-	-
4602			+p	+p	+p	+p	+		25,75	29,07	+	25,54	+	26,15	+	25,71	+	+	+	+	+	+	+	+	+	+
4603			st	st	st	st	-		N/A	29,33	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	-	-	-
4604			st	st	st	st	-		N/A	29,27	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	-	-	-
4605			st	st	st	st	-		N/A	29,69	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	-	-	-
4606			+p	+p	+p	+p	+		22,19	29,03	+	21,53	+	21,70	+	21,58	+	+	+	+	+	+	+	+	+	+
4607			st	st	st	st	-		N/A	29,39	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	-	-	-
4608	st	st	st	st	-	N/A	29,63	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	-	-	-			
4609	st	st	st	st	-	N/A	29,13	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	-	-	-			
4610	+p	+p	+p	+p	+	23,28	28,76	+	22,34	+	23,30	+	22,26	+	+	+	+	+	+	+	+	+	+			
4611	+p	+p	+p	+p	+	24,61	29,01	+	23,51	+	23,93	+	24,08	+	+	+	+	+	+	+	+	+	+			
4612	st	st	st	st	-	N/A	30,27	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	-	-	-			
4543	2	4,2	st	st	st	st	-	3/5	N/A	29,28	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-			
4544			st	st	st	st	-		N/A	29,39	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	-		
4545			+p	+p	+p	+p	+		22,29	29,04	+	22,18	+	22,74	+	22,93	+	+	+	+	+	+	+	+	+	
4546			+p	+p	+p	+p	+		23,03	29,03	+	22,50	+	22,90	+	23,39	+	+	+	+	+	+	+	+	+	+
4547			+p	+p	+p	+p	+		23,38	29,41	+	22,99	+	23,43	+	23,74	+	+	+	+	+	+	+	+	+	+

Pasteurized whole liquid egg product  
**Salmonella Havana Ad1728**  
 Seeding 48h at 3°C±2°C  
 BPW 16h at 37°C  
 Total viable count: <2,0.10<sup>2</sup>CFU/g

\* : DNA extract diluted (1/10)

Sample N°	Level	Inoculation level (cfu/sample)	Reference method : ISO 6579-1 ♦					Alternative method: BioChek Salmonella species DNA Test Kit															
			RVS broth		MKTTn broth		Result	Positive Results/Total	PCR								Final result Bio-Rad CFX96	Final result ABS 7500	Final result Agilent MX3005P	Final result Roche LightCycler 480 II	Positive Results/Total for all the thermocyclers		
			XLD	ASAP	XLD	ASAP			Bio-Rad CFX96			ABS 7500		Agilent MX3005P		Roche LightCycler 480II							
									Cq (FAM)	Cq (HEX)	Result	Cq (FAM)	Result	Cq (FAM)	Result	Cq (FAM)						Result	
3237	0	0	st	st	st	st	-	0/5	N/A	34,49	-	N/A	-	N/A	-	N/A	-	-	-	-	-	0/5	
3238			st	st	st	st	-		N/A	34,19	-	N/A	-	N/A	-	N/A	-	-	-	-	-		-
3239			st	st	st	st	-		N/A	33,84	-	N/A	-	N/A	-	N/A	-	-	-	-	-		-
3240			st	st	st	st	-		N/A	34,01	-	N/A	-	29,70	+	N/A	-	-	-	-	-		-
3241			st	st	st	st	-		N/A	34,23	-	N/A	-	N/A	-	N/A	-	-	-	-	-		-
3242	1	0,6	st	st	st	st	-	12/20	N/A	33,80	-	N/A	-	N/A	-	N/A	-	-	-	-	-	12/20	
3243			+p	+p	+p	+p	+		18,95	31,60	+	17,10	+	16,42	+	16,87	+	+	+	+	+		+
3244			st	st	st	st	-		N/A	34,30	-	N/A	-	N/A	-	N/A	-	-	-	-	-		-
3245			st	st	st	st	-		N/A	33,83	-	N/A	-	N/A	-	N/A	-	-	-	-	-		-
3246			+p	+p	+p	+p	+		18,41	32,09	+	17,57	+	17,29	+	16,73	+	+	+	+	+		+
3247			+p	+p	+p	+p	+		18,41	31,65	+	17,10	+	16,47	+	16,71	+	+	+	+	+		+
3248			st	st	st	st	-		N/A	29,66	-	N/A	-	N/A	-	N/A	-	-	-	-	-		-
3249			+p	+p	+p	+p	+		18,97	31,96	+	19,28	+	16,21	+	17,16	+	+	+	+	+		+
3250			+p	+p	+p	+p	+		25,16	36,51	+	18,28	+	17,56	+	17,85	+	+	+	+	+		+
3251			+p	+p	+p	+p	+		18,57	32,28	+	17,14	+	17,15	+	17,07	+	+	+	+	+		+
3252			+p	+p	+p	+p	+		18,31	31,56	+	N/A 17,46*	i +*	16,76	+	16,91	+	+	+	+	+		+
3253			st	st	st	st	-		N/A	34,01	-	N/A	-	29,53	+	N/A	-	-	-	-	-		-
3254			+p	+p	+p	+p	+		19,33	32,91	+	17,50	+	16,58	+	17,09	+	+	+	+	+		+
3255			st	st	st	st	-		N/A	34,17	-	N/A	-	N/A	-	N/A	-	-	-	-	-		-
3256			+p	+p	+p	+p	+		19,58	31,89	+	17,75	+	16,48	+	17,16	+	+	+	+	+		+
3257			+p	+p	+p	+p	+		19,57	32,41	+	18,30	+	17,63	+	17,21	+	+	+	+	+		+
3258			st	st	st	st	-		N/A	29,61	-	N/A	-	N/A	-	31,92	+	-	-	-	-		-
3259	st	st	st	st	-	N/A	33,89	-	N/A	-	38,65	+	N/A	-	-	-	-	-	-				
3260	+p	+p	+p	+p	+	18,83	31,55	+	18,02	+	16,71	+	16,88	+	+	+	+	+	+				
3261	+p	+p	+p	+p	+	19,43	32,07	+	17,32	+	17,10	+	16,80	+	+	+	+	+	+				
3262	+p	+p	+p	+p	+	19,05	31,48	+	17,59	+	16,33	+	16,80	+	+	+	+	+	+				
3263	+p	+p	+p	+p	+	18,62	31,71	+	18,52	+	15,98	+	17,26	+	+	+	+	+	+				
3264	+p	+p	+p	+p	+	19,18	32,14	+	17,33	+	17,58	+	17,19	+	+	+	+	+	+				
3265	st	st	st	st	-	N/A	34,45	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-				
3266	+p	+p	+p	+p	+	19,54	32,10	+	17,78	+	16,74	+	16,84	+	+	+	+	+	+				

Process water  
**Salmonella Livingstone AOOE058**  
 Seeding 48h at 3°C±2°C  
 BPW 16h at 37°C  
 Total viable count: 1,6.10<sup>6</sup> CFU/g

Sample N°	Level	Inoculation level (cfu/sample)	Reference method : ISO 6579-1 ♦					Alternative method: BioChek <i>Salmonella</i> species DNA Test Kit																	
			RVS broth		MKTTn broth		Result	Positive Results/Total	PCR								Final result Bio-Rad CFX96	Final result ABS 7500	Final result Agilent MX3005P	Final result Roche LightCycler 480 II	Positive Results/Total for all the thermocyclers				
			XLD	ASAP	XLD	ASAP			Bio-Rad CFX96			ABS 7500		Agilent MX3005P		Roche LightCycler 480II									
									Cq (FAM)	Cq (HEX)	Result	Cq (FAM)	Result	Cq (FAM)	Result	Cq (FAM)						Result			
3992	0	0	st	st	-	st	-	0/5	N/A	29,47	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	-	-
3993			st	st	-	st	-	N/A	29,46	-	N/A	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	-
3994			st	st	-	st	-	N/A	29,47	-	N/A	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	-
3995			st	st	-	st	-	N/A	29,31	-	N/A	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	-
3996			st	st	-	st	-	N/A	29,27	-	N/A	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	-
3997	1	0,7	+p	+p	+p	+p	+	14/20	18,85	29,17	+	18,07	+	18,55	+	18,32	+	+	+	+	+	+	+	+	
3998			+p	+p	+p	+p	+	18,62	29,16	+	18,04	+	18,97	+	18,67	+	+	+	+	+	+	+	+	+	+
3999			+p	+p	+p	+p	+	18,42	29,09	+	17,84	+	18,58	+	18,60	+	+	+	+	+	+	+	+	+	+
4000			st	st	-	st	-	N/A	29,30	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	-	-	-
4001			+p	+p	+p	+p	+	18,34	28,99	+	18,10	+	18,08	+	17,98	+	+	+	+	+	+	+	+	+	+
4002			+p	+p	+p	+p	+	18,40	28,99	+	17,55	+	19,09	+	18,60	+	+	+	+	+	+	+	+	+	+
4003			st	st	-	st	-	N/A	29,09	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	-	-	-
4004			st	st	-	st	-	N/A	29,32	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	-	-	-
4005			+p	+p	+p	+p	+	18,44	29,38	+	18,68	+	18,51	+	18,29	+	+	+	+	+	+	+	+	+	+
4006			st	st	-	st	-	N/A	29,51	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	-	-	-
4007			+p	+p	+p	+p	+	18,22	29,02	+	17,86	+	18,49	+	17,70	+	+	+	+	+	+	+	+	+	+
4008			+p	+p	+p	+p	+	18,44	28,81	+	18,30	+	18,40	+	18,37	+	+	+	+	+	+	+	+	+	+
4009			st	st	-	st	-	N/A	29,31	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	-	-	-
4010			+p	+p	+p	+p	+	18,53	29,09	+	18,15	+	18,82	+	18,98	+	+	+	+	+	+	+	+	+	+
4011			st	st	-	st	-	N/A	29,17	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	-	-	-
4012			+p	+p	+p	+p	+	18,83	29,06	+	18,57	+	18,00	+	17,95	+	+	+	+	+	+	+	+	+	+
4013			+p	+p	+p	+p	+	18,63	29,02	+	19,43	+	19,14	+	18,22	+	+	+	+	+	+	+	+	+	+
4014	+p	+p	+p	+p	+	18,72	29,29	+	18,98	+	18,49	+	19,06	+	+	+	+	+	+	+	+	+	+		
4015	+p	+p	+p	+p	+	19,00	29,32	+	19,78	+	18,36	+	18,90	+	+	+	+	+	+	+	+	+	+		
4016	+p	+p	+p	+p	+	18,32	29,01	+	18,76	+	18,92	+	19,05	+	+	+	+	+	+	+	+	+	+		
4017	2	2,0	+p	+p	+p	+p	+	5/5	18,89	28,83	+	18,77	+	18,87	+	19,31	+	+	+	+	+	+	+	+	
4018			+p	+p	+p	+p	+	18,98	29,07	+	19,05	+	18,91	+	19,00	+	+	+	+	+	+	+	+	+	
4019			+p	+p	+p	+p	+	18,73	28,92	+	18,60	+	19,09	+	19,17	+	+	+	+	+	+	+	+	+	
4020			+p	+p	+p	+p	+	19,13	28,89	+	21,17	+	19,28	+	19,59	+	+	+	+	+	+	+	+	+	
4021			+p	+p	+p	+p	+	19,23	29,30	+	18,85	+	18,60	+	19,10	+	+	+	+	+	+	+	+	+	+

**Poultry faeces**  
**Salmonella Enteritidis 657**  
**Seeding 24h at ambient temperature**  
**BPW 16h at 37°C**  
 Total viable count: 6,2.10<sup>8</sup> CFU/g

\*(extract dilution 1/10)

Sample N°	Level	Inoculation level (cfu/sample)	Reference method : ISO 6579-1 ♦					Alternative method: BioChek Salmonella species DNA Test Kit																		
			MSRV		MKTTn broth		Result	Positive Results/Total	PCR (MKTTn)								Final result Bio-Rad CFX96	Final result ABS 7500	Final result Agilent MX3005P	Final result Roche LightCycler 480 II	Positive Results/Total for all the thermocyclers					
			XLD	ASAP	XLD	ASAP			Bio-Rad CFX96			ABS 7500		Agilent MX3005P		Roche LightCycler 480II										
									Cq (FAM)	Cq (HEX)	Result	Cq (FAM)	Result	Cq (FAM)	Result	Cq (FAM)						Result				
5018	0	0	/	/	-	-	-	0/5	N/A	35,30	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	-		
5019			/	/	-	-	-		N/A	34,79	-	N/A	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	
5020			/	/	-	-	-		N/A	33,86	-	34,07	+	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	
5021			/	/	-	-	-		N/A	35,10	-	N/A	i	N/A	i	N/A	i	N/A	i	-	-	-	-	-	-	
5022			/	/	-	-	-		N/A	34,07	-	37,90	+	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	-
5148	1	2,2	/	/	-	-	-	7/20	N/A	35,81	-	N/A	-	N/A	i	N/A	-	-	-	-	-	-	-	-		
5149			/	/	st	-	-		35,12	N/A	+	(confirmed by MSRV)	35,85	+	35,36	+	35,00	+	+	+	+	+	+	+	+	
5150			+p	+p	-	-	+		28,83	34,87	+	28,85	+	28,55	+	28,92	+	+	+	+	+	+	+	+	+	+
5151			+p	+p	st	-	+		28,90	38,28	+	28,71	+	28,61	+	28,97	+	+	+	+	+	+	+	+	+	+
5152			/	/	-	-	-		N/A	33,01	-	34,02	+	N/A	-	N/A	-	-	-	-	-	-	-	-	-	-
5153			/	/	-	-	-		N/A	33,77	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	-	-	-
5154			/	/	-	-	-		N/A	35,33	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	-	-	-
5155			+p	+p	+m	+M	+		22,77	N/A	+	22,35	+	22,17	+	22,79	+	+	+	+	+	+	+	+	+	+
5156			st	st	-	-	-		N/A	34,95	-	N/A	-	N/A	i	N/A	-	-	-	-	-	-	-	-	-	-
5157			/	/	st	-	-		N/A	37,62	-	37,32	+	N/A	-	N/A	-	-	-	-	-	-	-	-	-	-
5158			/	/	-	-	-		N/A	33,51	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	-	-	-
5159			st	st	-	-	-		N/A	32,90	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	-	-	-
5160			/	/	st	-	-		N/A	33,03	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	-	-	-
5161			st	st	-	-	-		N/A	34,35	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	-	-	-
5162			+p	+p	st	-	+		30,68	34,18	+	30,67	+	30,32	+	30,51	+	+	+	+	+	+	+	+	+	+
5163			+p	+p	-	-	+		29,07	39,10	+	29,01	+	28,75	+	29,12	+	+	+	+	+	+	+	+	+	+
5164			/	/	-	-	-		N/A	35,31	-	37,03	+	N/A	i	N/A	-	-	-	-	-	-	-	-	-	-
5165	+p	+p	+m	+1/2	+	30,21	38,82	+	29,91	+	29,35	+	30,20	+	+	+	+	+	+	+	+	+	+			
5166	/	/	-	-	-	26,83	N/A	+	(confirmed by MSRV)	26,51	+	26,67	+	26,74	+	+	+	+	+	+	+	+	+			
5167	+p	+p	st	-	+	32,08	32,68	+	32,03	+	32,50	+	31,85	+	+	+	+	+	+	+	+	+	+			
5168	/	/	-	-	-	N/A	32,63	-	N/A	-	N/A	-	N/A	-	-	-	-	-	-	-	-	-	-			
5169	+p	+p	+M	+M	+	25,38	N/A	+	24,97	+	25,00	+	25,25	+	+	+	+	+	+	+	+	+	+			
5170	+p	+p	+M	+M	+	23,84	N/A	+	23,26	+	23,09	+	23,65	+	+	+	+	+	+	+	+	+	+			
5171	+p	+p	+m	+M	+	25,72	N/A	+	25,35	+	25,04	+	25,77	+	+	+	+	+	+	+	+	+	+			
5172	/	/	+M	+M	+	26,67	N/A	+	26,20	+	26,17	+	26,51	+	+	+	+	+	+	+	+	+	+			

♦ Analyses performed according to the COFRAC accreditation  
 ADRIA Développement  
**Summary report** (Version 0)  
 BioChek Salmonella species DNA Test Kit

## Appendix 7 – Inclusivity and exclusivity study: raw data

INCLUSIVITY																		
N°	Strain	Reference	Origin	Inoculation level	Alternative method: BioChek Salmonella species DNA Test Kit													
					PCR								Confirmation					
					Bio-Rad CFX96			ABS 7500		Agilent MX3005P		Roche LightCycler 480II		RVS/XLD	RVS/ASAP	MKTTn/XLD	MKTTn/ASAP	
					Cq (FAM)	Cq (HEX)	Result	Cq (FAM)	Result	Cq (FAM)	Result	Cq (FAM)	Result					
1	<i>Salmonella</i> Abaetetuba	Ad2318	/	33	18,41	29,14	+	16,71	+	17,35	+	16,87	+	+	+	+	+	
2	<i>Salmonella</i> Aberdeen	CIP 105618	/	40	17,64	29,06	+	19,13	+	17,44	+	17,34	+	+	+	+	+	
3	<i>Salmonella</i> Abortusequi	Ad2321	/	7	22,29	29,36	+	22,03	+	22,74	+	22,62	+	H2S-	pale pink (µ)	H2S- (5)	pale (5)	
4	<i>Salmonella</i> Abortusovis	Ad2320	Ovine foetus	20	17,25	29,15	+	16,83	+	17,77	+	17,01	+	+	+	+	+	
5	<i>Salmonella</i> Adelaide	Ad2319	Turkey breeding environment	34	22,48	29,20	+	21,22	+	21,73	+	22,24	+	+	bluish	+	bluish	
6	<i>Salmonella</i> Agona	A00V038	Feed for pork	13	17,77	29,42	+	17,48	+	17,89	+	16,91	+	+	+	+	+	
7	<i>Salmonella</i> Anatum	A00E007	Dusts	39	16,95	29,60	+	17,07	+	17,39	+	16,89	+	+	+	+	+	
8	<i>Salmonella</i> arizonae 51:z4,z23	CIP 5523	Turkey meat	25	18,79	29,43	+	18,80	+	19,09	+	18,37	+	+	pale pink	+	pale pink	
9	<i>Salmonella</i> arizonae 48:z4,z23:-	Ad1850	Poultry environmental sample	39	18,01	29,11	+	17,40	+	18,51	+	17,78	+	+	+	+	+	
10	<i>Salmonella</i> Bardo	Adria 569	Meat for sausage	33	17,95	29,38	+	16,66	+	18,04	+	17,56	+	+	+	+	+	
11	<i>Salmonella</i> Bareilly	Ad 1687	Chocolate industry	41	17,85	29,15	+	17,54	+	18,09	+	17,24	+	+	+	+	+	
12	<i>Salmonella</i> Blockley	Ad 923	Poultry environment	44	18,06	29,18	+	18,03	+	17,66	+	17,89	+	+	+	+	+	
13	<i>Salmonella</i> bongori 66 :z35:-	Ad 599	Environmental sample	18	20,02	29,15	+	18,73	+	18,83	+	19,00	+	+	white	+	white	
14	<i>Salmonella</i> Bovismorbificans	Adria 6629	Sausage	14	17,24	29,12	+	16,88	+	17,76	+	17,48	+	+	+	+	+	
15	<i>Salmonella</i> Braenderup	Adria 111	Pork meat	17	18,25	29,53	+	16,90	+	18,08	+	17,83	+	+	+	+	+	
16	<i>Salmonella</i> Brandenburg	Ad 351	Seafood cocktail	27	16,08	29,59	+	17,62	+	17,36	+	16,11	+	+	+	+	+	
17	<i>Salmonella</i> Bredeney	Adria 396	Ground beef	9	17,46	29,27	+	17,87	+	17,62	+	17,13	+	+	+	+	+	
18	<i>Salmonella</i> Caracas	Ad2322	Spice	32	17,63	29,16	+	17,22	+	17,71	+	17,88	+	+	+	+	+	
19	<i>Salmonella</i> Cerro	Ad 689	Dehydrated poultry protein	18	17,92	29,01	+	16,78	+	17,90	+	17,66	+	+	+	+	+	
20	<i>Salmonella</i> Chester	CIP 103543	/	13	17,57	29,25	+	18,02	+	17,17	+	17,26	+	+	+	+	+	
21	<i>Salmonella</i> Cubana	Ad2323	Dust feed environment	39	18,17	29,18	+	17,46	+	17,56	+	17,96	+	+	+	+	+	
22	<i>Salmonella</i> Derby	Ad 1093	Fish fillet	40	17,67	29,20	+	17,23	+	17,75	+	17,67	+	+	+	+	+	
23	<i>Salmonella</i> diarizonae 38:lv:z53	Ad 451	Ewe milk cheese	58	15,59	29,39	+	16,54	+	16,91	+	16,90	+	+	+	+	+	
24	<i>Salmonella</i> diarizonae 61:k:1,5,7	Ad 1300	Raw ewe milk	56	17,30	29,39	+	16,80	+	17,55	+	17,07	+	+	+	+	+	
25	<i>Salmonella</i> Dublin	Ad 529	Beef meat	9	18,21	29,17	+	17,78	+	17,97	+	17,82	+	+	white	+	white	
26	<i>Salmonella</i> Emek	Ad 333	/	15	17,90	29,25	+	17,76	+	18,70	+	18,88	+	+	+	+	+	
27	<i>Salmonella</i> Enteritidis	Ad 477	Hen meat	28	18,53	29,34	+	17,88	+	17,77	+	18,09	+	+	+	+	+	
28	<i>Salmonella</i> Gallinarum biovar pullorum	Ad 300	Poultry environment	7	28,46	29,56	+	28,09	+	28,22	+	28,35	+	small H2S-	(µ)	st	st	
29	<i>Salmonella</i> Gaminara	Ad2324	Boar meat	39	18,85	29,15	+	18,53	+	18,07	+	18,60	+	+	+	+	+	
30	<i>Salmonella</i> Give	436	Ground beef	40	18,84	29,16	+	18,03	+	18,19	+	17,86	+	+	+	+	+	
31	<i>Salmonella</i> Guinea	29	/	24	18,10	29,41	+	17,77	+	18,33	+	17,79	+	H2S-	+	H2S-	+	
32	<i>Salmonella</i> Hadar	24871	Chicken meat	19	18,28	29,31	+	17,85	+	17,92	+	17,19	+	+	+	+	+	
33	<i>Salmonella</i> Havana	Ad 930	Poultry environment	50	18,47	29,41	+	18,48	+	18,06	+	17,48	+	+	+	+	+	
34	<i>Salmonella</i> Heidelberg	A00E005	Dusts from dairy industry	22	18,02	29,42	+	18,05	+	17,32	+	17,68	+	+	+	+	+	
35	<i>Salmonella</i> houtenae 50:g,z51	Ad 596	Dairy product	39	20,61	29,18	+	19,29	+	18,93	+	19,78	+	+	+	+	+	
36	<i>Salmonella</i> Hvittingfoss	Ad2325	Raw stuff	57	18,65	29,33	+	17,97	+	18,01	+	18,30	+	+	+	+	+	
37	<i>Salmonella</i> Indiana	Ad 174	White cheese	32	19,67	29,30	+	19,48	+	18,56	+	18,57	+	+	+	+	+	
38	<i>Salmonella</i> indica 1,6,14,25:a:enx	Ad 600	Environmental sample	40	19,50	29,23	+	19,59	+	18,23	+	18,68	+	yellow	pale grey	yellow	pale grey	
39	<i>Salmonella</i> indica11:b:e,n,x	Ad2337	Chicken breeding environment	16	20,10	29,67	+	19,05	+	18,92	+	18,30	+	H2S-	pale pink	H2S-	pale pink	
40	<i>Salmonella</i> Infantis	F401B	Cheese	47	18,71	29,54	+	17,48	+	17,75	+	17,88	+	+	+	+	+	
41	<i>Salmonella</i> Javiana	Ad2326	Turkey meat	32	17,77	29,34	+	17,55	+	17,63	+	17,74	+	+	+	+	+	
42	<i>Salmonella</i> Kedougou	Ad 929	Bovine environmental sample	34	18,03	29,11	+	18,06	+	18,71	+	18,62	+	+	+	+	+	
43	<i>Salmonella</i> Kentucky	Ad1756	Poultry environmental sample	35	18,61	29,40	+	17,80	+	18,63	+	18,45	+	+	+	+	+	
44	<i>Salmonella</i> Kottbus	Adria 1	Poultry environmental sample	31	18,04	29,17	+	17,84	+	17,49	+	18,12	+	+	+	+	+	

INCLUSIVITY																		
N°	Strain		Reference	Origin	Inoculation level	Alternative method: BioChek Salmonella species DNA Test Kit												
						PCR								Confirmation				
						Bio-Rad CFX96			ABS 7500		Agilent MX3005P		Roche LightCycler 480II		RVS/XLD	RVS/ASAP	MKTTn/XLD	MKTTn/ASAP
						Cq (FAM)	Cq (HEX)	Result	Cq (FAM)	Result	Cq (FAM)	Result	Cq (FAM)	Result				
45	<i>Salmonella</i>	Landau	Ad 499	/	31	20,10	29,32	+	19,33	+	19,47	+	19,75	+	+	pale pink	+	pale pink
46	<i>Salmonella</i>	Lille	Adria 37	Food product	55	18,61	29,14	+	18,63	+	18,81	+	18,96	+	+	+	+	+
47	<i>Salmonella</i>	Livingstone	Ad 1107	Dusts	40	18,32	29,27	+	17,41	+	18,05	+	18,44	+	+	+	+	+
48	<i>Salmonella</i>	London	Adria 326	Cooked meat sample	46	18,19	29,37	+	18,31	+	17,41	+	17,77	+	+	+	+	+
49	<i>Salmonella</i>	Luciana	CIP 105626	/	7	18,77	29,16	+	18,04	+	18,45	+	18,90	+	H2S-	bluish	H2S-	bluish
50	<i>Salmonella</i>	Manhattan	Adria 900	Dusts from dairy industry	58	18,19	29,19	+	17,26	+	17,68	+	18,24	+	+	+	+	+
51	<i>Salmonella</i>	Maracaibo	CIP 54143	/	42	18,40	29,22	+	17,19	+	17,69	+	17,37	+	+	+	+	+
52	<i>Salmonella</i>	Marseille	CIP105627	/	35	18,43	29,27	+	18,56	+	18,22	+	18,53	+	+	+	+	+
53	<i>Salmonella</i>	Mbandaka	Ad 914	Mayonnaise	23	18,39	29,31	+	17,78	+	18,02	+	18,04	+	+	+	+	+
54	<i>Salmonella</i>	Meleagridis	505	Raw milk	41	18,47	29,30	+	18,54	+	18,21	+	19,12	+	+	+	+	+
55	<i>Salmonella</i>	Michigan	Ad2327	Low moisture sausage	40	18,38	29,46	+	17,08	+	17,45	+	17,82	+	+	+	+	+
56	<i>Salmonella</i>	Mikawasima	Ad1811	Raw ewe milk	40	18,59	29,37	+	18,09	+	18,35	+	18,12	+	+	+	+	+
57	<i>Salmonella</i>	Minnesota	Ad2328	Feed	49	18,58	29,18	+	17,87	+	18,53	+	18,50	+	+	+	+	+
58	<i>Salmonella</i>	Missisipi	Ad2329	Parakeet	43	17,62	29,19	+	17,03	+	17,64	+	17,51	+	+	+	+	+
59	<i>Salmonella</i>	Montevideo	Ad912	Raw milk	34	18,33	29,18	+	17,38	+	17,76	+	17,91	+	+	+	+	+
60	<i>Salmonella</i>	Muenchen	CIP 106178	/	35	17,98	29,13	+	17,51	+	18,38	+	18,41	+	+	+	+	+
61	<i>Salmonella</i>	Napoli	Ad 928	Clinical	44	18,26	29,14	+	17,39	+	18,35	+	18,31	+	+	+	+	+
62	<i>Salmonella</i>	Newport	Adria 586	Sausage	21	19,52	29,25	+	18,60	+	18,85	+	19,49	+	+	+	+	+
63	<i>Salmonella</i>	Norwich	Ad1172	/	29	18,56	29,81	+	18,62	+	18,34	+	18,61	+	+	+	+	+
64	<i>Salmonella</i>	Ohio	Ad1482	Raw cow milk	19	18,62	29,39	+	17,88	+	18,12	+	17,98	+	+	+	+	+
65	<i>Salmonella</i>	Orion	27	/	33	20,71	29,42	+	20,53	+	20,72	+	20,88	+	+	+	+	+
66	<i>Salmonella</i>	Oranienburg	Ad1724	Cereals	42	18,13	29,04	+	16,72	+	17,06	+	18,27	+	+	+	+	+
67	<i>Salmonella</i>	Ouakam	Ad1647	Compost	45	17,87	29,20	+	16,78	+	18,77	+	17,68	+	+	+	+	+
68	<i>Salmonella</i>	Panama	Adria 8	Ground beef	12	17,68	28,91	+	18,52	+	17,91	+	18,26	+	+	+	+	+
69	<i>Salmonella</i>	Paratyphi A	ATCC 9150	/	12	19,01	29,05	+	17,35	+	17,45	+	18,66	+	H2S-	+	H2S-	+
70	<i>Salmonella</i>	Paratyphi B	Ad 301	Clinical	17	15,41	29,12	+	18,42	+	17,72	+	17,46	+	+	+	+	+
71	<i>Salmonella</i>	Paratyphi C	ATCC 13428	/	29	18,27	29,35	+	17,94	+	18,40	+	18,02	+	+	pale pink	+	pale pink
72	<i>Salmonella</i>	Pomona	CIP105630	/	31	18,31	29,39	+	17,96	+	17,50	+	18,49	+	+	+	+	+
73	<i>Salmonella</i>	Poona	Ad2330	Poultry feed	29	18,43	29,14	+	18,18	+	18,51	+	18,13	+	+	+	+	+
74	<i>Salmonella</i>	Putten	Ad2331	Feed for chicken	27	17,68	29,21	+	17,65	+	17,64	+	18,01	+	+	+	+	+
75	<i>Salmonella</i>	Regent	Adria 328	Duck	34	18,39	29,07	+	17,92	+	18,53	+	18,77	+	+	+	+	+
76	<i>Salmonella</i>	Rissen	Adria 39	Food product	16	18,54	28,97	+	21,43	+	19,60	+	19,82	+	+	+	+	+
77	<i>Salmonella</i>	Rubislaw	Ad2332	Shark cartilage	27	17,62	28,62	+	17,79	+	17,89	+	17,85	+	+	+	+	+
78	<i>Salmonella</i>	Saintpaul	Adria F31	Pilchard fillets	11	18,30	28,87	+	18,63	+	18,02	+	17,09	+	+	+	+	+
79	<i>Salmonella</i>	<i>salamae</i> 42,b:e,n,x,z15	Ad 593	Cereals	13	18,56	28,73	+	18,14	+	18,33	+	18,77	+	+	+	+	+
80	<i>Salmonella</i>	Schwarzengrund	Ad2333	Egg products environment	20	17,66	29,08	+	16,61	+	16,81	+	17,66	+	+	+	+	+
81	<i>Salmonella</i>	Senftenberg	Ad 355	Seafood cocktail	15	18,51	28,78	+	17,52	+	18,48	+	18,30	+	+	+	+	+
82	<i>Salmonella</i>	Stanley	Ad 1688	Chocolate industry	17	17,52	28,48	+	18,04	+	17,67	+	18,09	+	+	+	+	+
83	<i>Salmonella</i>	Stourbridge	Ad2297	Raw milk cheese	18	18,56	28,80	+	19,90	+	19,01	+	17,72	+	+	+	+	+
84	<i>Salmonella</i>	Strasbourg	CIP105632	/	5	18,41	28,79	+	19,90	+	18,24	+	18,75	+	+	blue	+	blue
85	<i>Salmonella</i>	Tananarive	CIP54142	/	19	17,49	28,55	+	18,34	+	18,37	+	16,97	+	+	+	+	+
86	<i>Salmonella</i>	Tennessee	A00E006	Dusts from dairy industry	25	18,06	28,65	+	17,29	+	18,10	+	17,86	+	+	+	+	+
87	<i>Salmonella</i>	Thompson	AER301	Poultry	39	16,58	28,72	+	17,66	+	17,84	+	17,32	+	+	+	+	+
88	<i>Salmonella</i>	Typhi	Ad 302	Clinical	60	18,50	28,83	+	18,52	+	18,84	+	18,52	+	+	+	+	+
89	<i>Salmonella</i>	Typhimurium	Ad 1070	Pork meat	14	18,11	28,79	+	18,41	+	19,16	+	18,80	+	+	+	+	+
90	<i>Salmonella</i>	Typhimurium 1,4 [5], I2:-:-	Ad 1333	Tiramisu	37	17,21	28,87	+	17,23	+	16,63	+	17,59	+	+	+	+	+
91	<i>Salmonella</i>	Typhimurium 1,4 [5], I2:-:1,2	Ad 1335	Poultry environmental sample	24	17,58	28,92	+	18,09	+	17,93	+	18,12	+	+	+	+	+

INCLUSIVITY																		
N°	Strain		Reference	Origin	Inoculation level	Alternative method: BioChek Salmonella species DNA Test Kit												
						PCR								Confirmation				
						Bio-Rad CFX96			ABS 7500		Agilent MX3005P		Roche LightCycler 480II		RVS/XLD	RVS/ASAP	MKTTn/XLD	MKTTn/ASAP
						Cq (FAM)	Cq (HEX)	Result	Cq (FAM)	Result	Cq (FAM)	Result	Cq (FAM)	Result				
92	<i>Salmonella</i>	Typhimurium 1,4 [5], II2.i:-	Ad 1334	Ready to cook pork	30	14,25	28,54	+	18,73	+	17,64	+	17.90	+	+	+	+	+
93	<i>Salmonella</i>	Urbana	Ad2334	Shrimps	20	17,92	29,37	+	17,47	+	17,34	+	17.47	+	+	+	+	+
94	<i>Salmonella</i>	Veneziana	Adria 233	Food product	15	18,22	28,76	+	18,22	+	17,85	+	17.90	+	+	+	+	+
95	<i>Salmonella</i>	Virchow	Adria F276	Curry	26	17,98	29,01	+	17,55	+	18,76	+	17.49	+	+	+	+	+
96	<i>Salmonella</i>	Wandsworth	Ad2335	Fillet of mullet	18	18,17	28,65	+	16,71	+	18,09	+	16.60	+	+	+	+	+
97	<i>Salmonella</i>	Waycross	CIP105634	/	53	17,69	29,12	+	17,28	+	17,39	+	17.44	+	+	+	+	+
98	<i>Salmonella</i>	Wayne	Ad502	/	21	21,74	29,00	+	21,42	+	22,07	+	21.59	+	H2S-	pale pink	H2S-	pale pink
99	<i>Salmonella</i>	Weltevreden	Ad2336	Treated water	37	17,39	28,88	+	17,88	+	18,35	+	17.43	+	+	+	+	+
100	<i>Salmonella</i>	Worthington	Adria 3506	Pâté	24	18,24	28,79	+	18,59	+	18,37	+	17.85	+	+	+	+	+

EXCLUSIVITY													
No	Strain	Reference	Origin	Inoculation level	PCR								
					Bio-Rad CFX96			ABS 7500		Agilent MX3005P		Roche LightCycler 480II	
					Cq (FAM)	Cq (HEX)	Result	Cq (FAM)	Result	Cq (FAM)	Result	Cq (FAM)	Result
1	<i>Citrobacter braakii</i>	Ad833	Raw beef meat	2,9.10 <sup>5</sup>	N/A	29,90	-	N/A	-	N/A	-	N/A	-
2	<i>Citrobacter diversus</i>	adria 140	Raw milk	3,0.10 <sup>5</sup>	N/A	29,57	-	N/A	-	N/A	-	N/A	-
3	<i>Citrobacter freundii</i>	adria 23	Raw pork sausage	2,6.10 <sup>5</sup>	N/A	29,57	-	N/A	-	N/A	-	N/A	-
4	<i>Citrobacter freundii</i>	adria 175	Raw duck meat	3,2.10 <sup>5</sup>	N/A	29,41	-	N/A	-	N/A	-	N/A	-
5	<i>Citrobacter koseri</i>	adria 71	Frozen vegetables	3,8.10 <sup>5</sup>	N/A	29,56	-	N/A	-	N/A	-	N/A	-
6	<i>Enterobacter agglomerans</i>	adria 11	Cheese	2,4.10 <sup>5</sup>	N/A	29,30	-	N/A	-	N/A	-	N/A	-
7	<i>Enterobacter amnigenus</i>	A00C068	Raw poultry meat	2,2.10 <sup>5</sup>	N/A	29,60	-	N/A	-	N/A	-	N/A	-
8	<i>Enterobacter cloacae</i>	adria 10	Raw milk	1,7.10 <sup>5</sup>	N/A	29,56	-	N/A	-	N/A	-	N/A	-
9	<i>Enterobacter intermedius</i>	adria 60	Bean	1,1.10 <sup>5</sup>	N/A	29,42	-	N/A	-	N/A	-	N/A	-
10	<i>Enterobacter kobei</i>	Ad 342	Ham	1,3.10 <sup>5</sup>	N/A	29,29	-	N/A	-	N/A	-	N/A	-
11	<i>Enterobacter sakazakii</i>	adria 95	Fermented milk	2,6.10 <sup>5</sup>	N/A	29,37	-	N/A	-	N/A	-	N/A	-
12	<i>Erwinia carotovora</i>	CIP 8283	Potatoes	3,1.10 <sup>5</sup>	N/A	29,48	-	N/A	-	N/A	-	N/A	-
13	<i>Escherichia coli</i>	adria 19	Grated carrots	2,3.10 <sup>5</sup>	N/A	29,45	-	N/A	-	34,07/32,97	+ / +	N/A	-
14	<i>Escherichia hermanii</i>	Ad 461	Dessert	2,3.10 <sup>5</sup>	N/A	29,52	-	N/A	-	N/A	-	N/A	-
15	<i>Escherichia vulneris</i>	adria 132	Veal liver	1,1.10 <sup>5</sup>	N/A	29,65	-	N/A	-	N/A	-	N/A	-
16	<i>Hafnia alvei</i>	adria 167	Raw pork sausage	3,4.10 <sup>5</sup>	N/A	29,36	-	N/A	-	N/A	-	N/A	-
17	<i>Klebsiella oxytoca</i>	57	Food product	1,2.10 <sup>5</sup>	N/A	29,39	-	N/A	-	N/A	-	N/A	-
18	<i>Klebsiella pneumoniae</i>	47	Raw turkey meat	2,6.10 <sup>5</sup>	N/A	29,38	-	N/A	-	N/A	-	N/A	-
19	<i>Kluyvera spp</i>	adria 41	Raw milk	1,5.10 <sup>5</sup>	N/A	29,24	-	N/A	-	N/A	-	N/A	-
20	<i>Morganella morganii</i>	CIP A236	/	3,3.10 <sup>5</sup>	N/A	29,25	-	N/A	-	N/A	-	N/A	-
21	<i>Pantoea agglomerans</i>	adria 62	Frozen vegetables	7,8.10 <sup>4</sup>	N/A	29,53	-	N/A	-	N/A	-	N/A	-
22	<i>Proteus mirabilis</i>	Ad639	Mayonnaise	4,3.10 <sup>5</sup>	N/A	29,61	-	N/A	-	N/A	-	N/A	-
23	<i>Proteus vulgaris</i>	adria 43	Sliced ham	1,3.10 <sup>5</sup>	N/A	29,52	-	N/A	-	N/A	-	N/A	-
24	<i>Providencia rettgeri</i>	adria 112	White liquid egg	1,9.10 <sup>5</sup>	N/A	29,39	-	N/A	-	N/A	-	N/A	-
25	<i>Rhanella aquatilis</i>	adria 69	Molluscs	1,4.10 <sup>5</sup>	N/A	29,31	-	N/A	-	N/A	-	N/A	-
26	<i>Serratia liquefaciens</i>	26	Egg product	7,2.10 <sup>4</sup>	N/A	29,26	-	N/A	-	N/A	-	N/A	-
27	<i>Serratia proteomaculans</i>	A00C056	Ham	5,2.10 <sup>4</sup>	N/A	29,30	-	N/A	-	N/A	-	N/A	-
28	<i>Shigella flexneri</i>	CIP 8248	/	1,6.10 <sup>5</sup>	N/A	29,67	-	N/A	-	N/A	-	N/A	-
29	<i>Shigella sonnei</i>	CIP 8249T (ATCC 29930)	/	1,1.10 <sup>5</sup>	N/A	29,33	-	N/A	-	N/A	-	N/A	-
30	<i>Yersinia enterocolitica</i>	adria 32	Bacon	9,6.10 <sup>4</sup>	N/A	29,53	-	N/A	-	N/A	-	N/A	-



## Appendix 8 - Results obtained by the collaborative laboratories and the expert laboratory

Laboratory **A1**

Thermocycler used: ABI7500 Software version 2.04

Software version 2.06 identical settings used

Aerobic mesophilic flora:  $1,1 \cdot 10^3$ CFU/g

N°Sample	ISO 6579-1					BioChek Salmonella Species DNA Test kit							Sample	PCR		
	RVS		MKTTn		Confirmation	Final result ISO 6579-1	PCR			Confirmation	Final result BIOCHEK	Agreement		Cp value FAM	Cp value HEX	Result
	XLD	Brilliance Salmonella	XLD	Brilliance Salmonella			Cp value FAM	Cp value HEX	Result							
A1	-	-	-	-	/	-	36,40	30,10	+	-	-	PPNA	A1	36,40	30,10	PPNA
A6	-	-	-	-	/	-	-	30,40	-	-	-	NA	A6	-	30,40	NA
A9	-	-	-	-	/	-	-	31,70	-	-	-	NA	A9	-	31,70	NA
A11	-	-	-	-	/	-	-	30,10	-	-	-	NA	A11	-	30,10	NA
A15	-	-	-	-	/	-	-	30,40	-	-	-	NA	A15	-	30,40	NA
A20	-	-	-	-	/	-	-	30,40	-	-	-	NA	A20	-	30,40	NA
A23	-	-	-	-	/	-	-	30,70	-	-	-	NA	A23	-	30,70	NA
A24	-	-	-	-	/	-	-	31,00	-	-	-	NA	A24	-	31,00	NA
A2	-	-	-	-	/	-	-	30,20	-	-	-	NA	A2	-	30,20	NA
A4	+	+	+	+	+	+	18,50	28,90	+	+	+	PA	A4	18,50	28,90	PA
A7	+	+	+	+	+	+	18,70	29,40	+	+	+	PA	A7	18,70	29,40	PA
A13	+	+	+	+	+	+	18,60	29,30	+	+	+	PA	A13	18,60	29,30	PA
A18	+	+	+	+	+	+	18,60	28,90	+	+	+	PA	A18	18,60	28,90	PA
A19	+	+	+	+	+	+	18,60	29,10	+	+	+	PA	A19	18,60	29,10	PA
A21	+	+	+	+	+	+	20,00	29,40	+	+	+	PA	A21	20,00	29,40	PA
A22	+	+	+	+	+	+	19,20	29,40	+	+	+	PA	A22	19,20	29,40	PA
A3	+	+	+	+	+	+	18,50	29,40	+	+	+	PA	A3	18,50	29,40	PA
A5	+	+	+	+	+	+	18,20	29,20	+	+	+	PA	A5	18,20	29,20	PA
A8	+	+	+	+	+	+	18,60	29,30	+	+	+	PA	A8	18,60	29,30	PA
A10	+	+	+	+	+	+	19,40	29,50	+	+	+	PA	A10	19,40	29,50	PA
A12	+	+	+	+	+	+	19,20	29,50	+	+	+	PA	A12	19,20	29,50	PA
A14	+	+	+	+	+	+	18,90	29,30	+	+	+	PA	A14	18,90	29,30	PA
A16	+	+	+	+	+	+	18,40	29,40	+	+	+	PA	A16	18,40	29,40	PA
A17	+	+	+	+	+	+	18,10	29,20	+	+	+	PA	A17	18,10	29,20	PA

Laboratory **A2**

Thermocycler used: ABI7500 Software version 2.04

Software version 2.06 identical settings used

Aerobic mesophilic flora:  $4,2 \cdot 10^3$ CFU/g

N°Sample	ISO 6579-1						BioChek Salmonella Species DNA Test kit					
	RVS		MKTn		Confirmation	Final result ISO 6579-1	PCR			Confirmation	Final result BIOCHEK	Agreement
	XLD	Brilliance Salmonella	XLD	Brilliance Salmonella			Cp value FAM	Cp value HEX	Result			
A25	-	-	-	-	/	-	-	30,40	-	-	-	NA
A27	-	-	-	-	/	-	-	30,20	-	-	-	NA
A30	-	-	-	-	/	-	-	30,00	-	-	-	NA
A35	-	-	-	-	/	-	-	30,00	-	-	-	NA
A39	-	-	-	-	/	-	-	30,50	-	-	-	NA
A40	-	-	-	-	/	-	-	29,90	-	-	-	NA
A44	-	-	-	-	/	-	-	30,00	-	-	-	NA
A48	-	-	-	-	/	-	38,20	30,00	+	-	-	PPNA
A26	+	+	+	+	+	+	19,00	29,50	+	+	+	PA
A33	+	+	+	+	+	+	19,00	29,10	+	+	+	PA
A36	+	+	+	+	+	+	18,50	28,60	+	+	+	PA
A38	+	+	+	+	+	+	22,30	29,20	+	+	+	PA
A42	+	+	+	+	+	+	18,40	28,80	+	+	+	PA
A43	+	+	+	+	+	+	18,50	28,70	+	+	+	PA
A46	-	-	-	-	/	-	37,80	29,80	+	-	-	PPNA
A47	+	+	+	+	+	+	19,50	29,30	+	+	+	PA
A28	+	+	+	+	+	+	18,90	29,20	+	+	+	PA
A29	+	+	+	+	+	+	18,30	28,80	+	+	+	PA
A31	+	+	+	+	+	+	18,00	29,10	+	+	+	PA
A32	+	+	+	+	+	+	18,10	29,00	+	+	+	PA
A34	+	+	+	+	+	+	18,20	28,90	+	+	+	PA
A37	+	+	+	+	+	+	19,00	29,30	+	+	+	PA
A41	+	+	+	+	+	+	18,20	29,20	+	+	+	PA
A45	+	+	+	+	+	+	20,00	29,20	+	+	+	PA

Sample	Cp value FAM	Cp value HEX	Result
A1	-	30,40	NA
A6	-	30,20	NA
A9	-	30,00	NA
A11	-	30,00	NA
A15	-	30,50	NA
A20	-	29,90	NA
A23	-	30,00	NA
A24	38,20	30,00	PPNA
A2	19,00	29,50	PA
A4	19,00	29,10	PA
A7	18,50	28,60	PA
A13	22,30	29,20	PA
A18	18,40	28,80	PA
A19	18,50	28,70	PA
A21	37,80	29,80	PPNA
A22	19,50	29,30	PA
A3	18,90	29,20	PA
A5	18,30	28,80	PA
A8	18,00	29,10	PA
A10	18,10	29,00	PA
A12	18,20	28,90	PA
A14	19,00	29,30	PA
A16	18,20	29,20	PA
A17	20,00	29,20	PA

Laboratory **B1**

Thermocycler used : CFX

Aerobic mesophilic flora:  $5,1 \cdot 10^3$ CFU/g

N°Sample	ISO 6579-1						BioChek Salmonella Species DNA Test kit					
	RVS		MKTTn		Confirmation	Final result ISO 6579-1	PCR			Confirmation	Final result BIOCHEK	Agreement
	XLD	Brilliance Salmonella	XLD	Brilliance Salmonella			Cp value FAM	Cp value HEX	Result			
B1	-	-	-	-	/	-	-	31,72	-	-	-	NA
B6	-	-	-	-	/	-	36,48	30,14	+	-	-	PPNA
B9	-	-	-	-	/	-	37,31	31,05	+	-	-	PPNA
B11	-	-	+	-	<i>Hafnia alvei</i>	-	37,34	30,84	+	-	-	PPNA
B15	-	-	-	-	/	-	32,33	30,08	+	-	-	PPNA
B20	+	+	+	+	+	+	29,91	30,57	+	+	+	PA
B23	-	-	-	-	/	-	37,12	30,46	+	-	-	PPNA
B24	-	-	-	-	/	-	36,07	30,70	+	-	-	PPNA
B2	+	+	+	+	+	+	18,48	30,18	+	+	+	PA
B4	+	+	+	+	+	+	18,61	30,04	+	+	+	PA
B7	+	+	+	+	+	+	18,10	29,96	+	+	+	PA
B13	+	+	+	+	+	+	18,78	29,1	+	+	+	PA
B18	+	+	+	+	+	+	18,06	29,82	+	+	+	PA
B19	+	+	+	+	+	+	28,24	28,24	+	+	+	PA
B21	+	+	+	+	+	+	19,44	30,04	+	+	+	PA
B22	+	+	+	+	+	+	19,38	29,43	+	+	+	PA
B3	+	+	+	+	+	+	18,15	29,85	+	+	+	PA
B5	+	+	+	+	+	+	18,60	29,76	+	+	+	PA
B8	+	+	+	+	+	+	18,67	30,83	+	+	+	PA
B10	+	+	+	+	+	+	17,26	29,70	+	+	+	PA
B12	+	+	+	+	+	+	17,42	29,30	+	+	+	PA
B14	+	+	+	+	+	+	18,42	30,12	+	+	+	PA
B16	+	+	+	+	+	+	18,18	30,12	+	+	+	PA
B17	+	+	+	+	+	+	19,13	30,21	+	+	+	PA

Laboratory **B2**

Thermocycler used : CFX

Aerobic mesophilic flora:  $3,9 \cdot 10^3$ CFU/g

N°Sample	ISO 6579-1						BioChek Salmonella Species DNA Test kit					
	RVS		MKTTn		Confirmation	Final result ISO 6579-1	PCR			Confirmation	Final result BIOCHEK	Agreement
	XLD	Brilliance Salmonella	XLD	Brilliance Salmonella			Cp value FAM	Cp value HEX	Result			
B25	-	-	-	-	/	-	-	-	invalid	-	-	/
B27	-	-	-	-	/	-	36,16	29,95	+	-	-	PPNA
B30	-	-	-	-	/	-	35,46	30,06	+	-	-	PPNA
B35	-	-	+	-	<i>Serratia liquefaciens</i>	-	35,50	30,18	+	-	-	PPNA
B39	-	-	-	-	/	-	33,67	30,04	+	-	-	PPNA
B40	-	-	-	-	/	-	37,10	30,10	+	-	-	PPNA
B44	-	-	-	-	/	-	33,18	30,34	+	-	-	PPNA
B48	-	-	-	-	/	-	32,39	37,23	+	-	-	PPNA
B26	+	+	+	+	+	+	17,83	30,71	+	+	+	PA
B33	+	+	+	+	+	+	17,51	29,46	+	+	+	PA
B36	+	+	+	+	+	+	17,16	29,53	+	+	+	PA
B38	-	-	-	-	/	-	31,26	29,92	+	-	-	PPNA
B42	+	+	+	+	+	+	18,94	29,66	+	+	+	PA
B43	+	+	+	+	+	+	17,59	29,67	+	+	+	PA
B46	+	+	+	+	+	+	18,05	29,06	+	+	+	PA
B47	+	+	+	+	+	+	16,49	29,48	+	+	+	PA
B28	+	+	+	+	+	+	17,14	29,37	+	+	+	PA
B29	+	+	+	+	+	+	17,95	29,54	+	+	+	PA
B31	+	+	+	+	+	+	17,73	29,44	+	+	+	PA
B32	+	+	+	+	+	+	17,87	29,92	+	+	+	PA
B34	+	+	+	+	+	+	17,81	29,86	+	+	+	PA
B37	+	+	+	+	+	+	18,55	29,84	+	+	+	PA
B41	+	+	+	+	+	+	19,17	29,58	+	+	+	PA
B45	+	+	+	+	+	+	-	-	invalid	+	-	0

Laboratory **C1**

Thermocycler used : Mx3005P

Aerobic mesophilic flora:  $5,8 \cdot 10^7$ CFU/g

N°Sample	ISO 6579-1						BioChek Salmonella Species DNA Test kit					
	RVS		MKTTn		Confirmation	Final result ISO 6579-1	PCR			Confirmation	Final result BIOCHEK	Agreement
	XLD	Brilliance Salmonella	XLD	Brilliance Salmonella			Cp value FAM	Cp value HEX	Result			
C1	-	-	-	-	/	-	-	30,69	-	-	-	NA
C6	-	-	-	-	/	-	-	30,58	-	-	-	NA
C9	-	-	-	-	/	-	-	31,12	-	-	-	NA
C11	-	-	-	-	/	-	-	30,56	-	-	-	NA
C15	-	-	-	-	/	-	-	30,74	-	-	-	NA
C20	-	-	-	-	/	-	-	30,21	-	-	-	NA
C23	-	-	-	-	/	-	-	30,47	-	-	-	NA
C24	-	-	-	-	/	-	-	31,03	-	-	-	NA
C2	+	+	+	+	+	+	21,35	30,42	+	+	+	PA
C4	+	+	+	+	+	+	19,93	30,61	+	+	+	PA
C7	+	+	+	+	+	+	21,59	30,32	+	+	+	PA
C13	+	+	+	+	+	+	22,39	30,39	+	+	+	PA
C18	+	+	+	+	+	+	21,32	30,04	+	+	+	PA
C19	+	+	+	+	+	+	21,49	30,10	+	+	+	PA
C21	+	+	+	+	+	+	21,29	30,12	+	+	+	PA
C22	+	+	+	+	+	+	21,43	30,24	+	+	+	PA
C3	+	+	+	+	+	+	19,87	30,58	+	+	+	PA
C5	+	+	+	+	+	+	20,95	29,99	+	+	+	PA
C8	+	+	+	+	+	+	20,41	30,28	+	+	+	PA
C10	+	+	+	+	+	+	20,05	30,54	+	+	+	PA
C12	+	+	+	+	+	+	20,56	29,88	+	+	+	PA
C14	+	+	+	+	+	+	20,32	30,19	+	+	+	PA
C16	+	+	+	+	+	+	21,42	30,47	+	+	+	PA
C17	+	+	+	+	+	+	21,63	30,17	+	+	+	PA

Laboratory **C2**

Thermocycler used : Mx3005P

Aerobic mesophilic flora: 9,9.10<sup>2</sup>CFU/g

N°Sample	ISO 6579-1						BioChek Salmonella Species DNA Test kit					
	RVS		MKTTn		Confirmation	Final result ISO 6579-1	PCR			Confirmation	Final result BIOCHEK	Agreement
	XLD	Brilliance Salmonella	XLD	Brilliance Salmonella			Cp value FAM	Cp value HEX	Result			
C25	-	-	-	-	/	-	-	31,70	-	-	-	NA
C27	-	-	-	-	/	-	-	30,53	-	-	-	NA
C30	-	-	-	-	/	-	-	30,22	-	-	-	NA
C35	-	-	-	-	/	-	-	30,71	-	-	-	NA
C39	-	-	-	-	/	-	-	30,54	-	-	-	NA
C40	-	-	-	-	/	-	-	30,24	-	-	-	NA
C44	-	-	-	-	/	-	-	31,22	-	-	-	NA
C48	-	-	-	-	/	-	-	30,80	-	-	-	NA
C26	+	+	+	+	+	+	21,23	30,26	+	+	+	PA
C33	+	+	+	+	+	+	21,70	30,10	+	+	+	PA
C36	+	+	+	+	+	+	21,96	30,41	+	+	+	PA
C38	+	+	+	+	+	+	22,17	30,79	+	+	+	PA
C42	+	+	+	+	+	+	22,91	30,98	+	+	+	PA
C43	+	+	+	+	+	+	22,52	30,71	+	+	+	PA
C46	+	+	+	+	+	+	21,92	30,18	+	+	+	PA
C47	+	+	+	+	+	+	22,78	30,53	+	+	+	PA
C28	+	+	+	+	+	+	22,20	30,40	+	+	+	PA
C29	+	+	+	+	+	+	21,30	30,90	+	+	+	PA
C31	+	+	+	+	+	+	21,64	30,43	+	+	+	PA
C32	+	+	+	+	+	+	20,69	30,13	+	+	+	PA
C34	+	+	+	+	+	+	21,21	30,55	+	+	+	PA
C37	+	+	+	+	+	+	23,67	31,08	+	+	+	PA
C41	+	+	+	+	+	+	21,48	30,26	+	+	+	PA
C45	+	+	+	+	+	+	22,20	30,46	+	+	+	PA

Laboratory **C3**

Thermocycler used : Mx3005P

Aerobic mesophilic flora:  $1,6 \cdot 10^4$ CFU/g

N°Sample	ISO 6579-1						BioChek Salmonella Species DNA Test kit					
	RVS		MKTTn		Confirmation	Final result ISO 6579-1	PCR			Confirmation	Final result BIOCHEK	Agreement
	XLD	Brilliance Salmonella	XLD	Brilliance Salmonella			Cp value FAM	Cp value HEX	Result			
C49	-	-	-	-	/	-	-	31,11	-	-	-	NA
C51	-	-	-	-	/	-	-	30,03	-	-	-	NA
C54	-	-	-	-	/	-	-	30,46	-	-	-	NA
C58	-	-	-	-	/	-	-	30,46	-	-	-	NA
C62	-	-	-	-	/	-	-	30,26	-	-	-	NA
C66	-	-	-	-	/	-	-	30,90	-	-	-	NA
C69	-	-	-	-	/	-	-	30,35	-	-	-	NA
C72	-	-	-	-	/	-	-	30,62	-	-	-	NA
C50	+	+	+	+	+	+	20,80	30,04	+	+	+	PA
C55	+	+	+	+	+	+	21,22	30,15	+	+	+	PA
C59	+	+	+	+	+	+	20,11	29,68	+	+	+	PA
C61	+	+	+	+	+	+	21,49	30,22	+	+	+	PA
C64	+	+	+	+	+	+	21,51	30,18	+	+	+	PA
C67	+	+	+	+	+	+	19,15	30,09	+	+	+	PA
C68	+	+	+	+	+	+	20,89	29,70	+	+	+	PA
C71	+	+	+	+	+	+	19,85	29,71	+	+	+	PA
C52	+	+	+	+	+	+	20,72	29,71	+	+	+	PA
C53	+	+	+	+	+	+	20,01	30,30	+	+	+	PA
C56	+	+	+	+	+	+	19,63	30,15	+	+	+	PA
C57	+	+	+	+	+	+	20,48	30,16	+	+	+	PA
C60	+	+	+	+	+	+	19,50	29,85	+	+	+	PA
C63	+	+	+	+	+	+	21,34	29,89	+	+	+	PA
C65	+	+	+	+	+	+	22,65	30,41	+	+	+	PA
C70	+	+	+	+	+	+	22,37	30,20	+	+	+	PA

Laboratory **D1**

Thermocycler used : ABI7500 Software 1.5.1

Software version 2.06 identical settings used

Aerobic mesophilic flora: 6,8.10<sup>3</sup>CFU/g

N°Sample	ISO 6579-1						BioChek Salmonella Species DNA Test kit					
	RVS		MKTtn		Confirmation	Final result ISO 6579-1	PCR			Confirmation	Final result BIOCHEK	Agreement
	XLD	Brilliance Salmonella	XLD	Brilliance Salmonella			Cp value FAM	Cp value HEX	Result			
D1	-	-	-	-	/	-	-	29,50	-	-	-	NA
D6	-	-	+	+	+	+	-	29,50	-	+	-	ND
D9	-	-	-	-	/	-	-	29,70	-	-	-	NA
D11	-	-	-	-	/	-	-	29,70	-	-	-	NA
D15	-	-	+	+	+	+	-	29,80	-	+	-	ND
D20	-	-	+	+	+	+	-	29,40	-	+	-	ND
D23	-	-	-	-	/	-	-	30,20	-	-	-	NA
D24	-	-	-	-	/	-	-	29,50	-	-	-	NA
D2	+	+	+	+	+	+	20,30	28,50	+	+	+	PA
D4	+	+	+	+	+	+	20,70	29,00	+	+	+	PA
D7	+	+	+	+	+	+	19,80	28,30	+	+	+	PA
D13	+	+	+	+	+	+	19,40	28,30	+	+	+	PA
D18	+	+	+	+	+	+	19,90	28,70	+	+	+	PA
D19	+	+	+	+	+	+	20,20	28,60	+	+	+	PA
D21	+	+	+	+	+	+	19,90	28,30	+	+	+	PA
D22	+	+	+	+	+	+	19,50	28,50	+	+	+	PA
D3	+	+	+	+	+	+	19,40	28,30	+	+	+	PA
D5	+	+	+	+	+	+	19,80	29,00	+	+	+	PA
D8	+	+	+	+	+	+	19,90	28,30	+	+	+	PA
D10	+	+	+	+	+	+	19,90	28,30	+	+	+	PA
D12	+	+	+	+	+	+	19,70	28,10	+	+	+	PA
D14	+	+	+	+	+	+	20,00	27,90	+	+	+	PA
D16	+	+	+	+	+	+	19,80	28,40	+	+	+	PA
D17	+	+	+	+	+	+	20,20	29,00	+	+	+	PA

Sample	PCR		
	Cp value FAM	Cp value HEX	Result
D1	-	29,72	NA
D6	-	29,69	ND
D9	-	29,87	NA
D11	-	29,87	NA
D15	-	29,96	ND
D20	-	29,64	ND
D23	-	30,31	NA
D24	-	29,70	NA
D2	20,45	28,73	PA
D4	20,89	29,14	PA
D7	19,94	28,48	PA
D13	19,57	28,49	PA
D18	20,01	28,91	PA
D19	20,33	28,81	PA
D21	20,03	28,45	PA
D22	19,70	28,71	PA
D3	19,60	28,52	PA
D5	20,00	29,21	PA
D8	20,00	28,54	PA
D10	20,07	28,56	PA
D12	19,88	28,26	PA
D14	20,09	28,08	PA
D16	19,97	28,62	PA
D17	20,35	29,11	PA



Laboratory **D2**

Thermocycler used : Roche 480

Aerobic mesophilic flora:  $1,9 \cdot 10^3$ CFU/g

N°Sample	ISO 6579-1						BioChek Salmonella Species DNA Test kit					
	RVS		MKTTn		Confirmation	Final result ISO 6579-1	PCR			Confirmation	Final result BIOCHEK	Agreement
	XLD	Brilliance Salmonella	XLD	Brilliance Salmonella			Cp value FAM	Cp value HEX	Result			
D25	-	-	-	-	/	-	-	32,02	-	-	-	NA
D27	-	-	-	-	/	-	-	31,14	-	-	-	NA
D30	-	-	-	-	/	-	-	30,93	-	-	-	NA
D35	-	-	-	-	/	-	-	31,53	-	-	-	NA
D39	-	-	-	-	/	-	-	31,06	-	-	-	NA
D40	-	-	-	-	/	-	-	35,00	-	-	-	NA
D44	-	-	+	+	+	+	-	31,18	-	+	-	ND
D48	-	-	+	+	+	+	-	30,95	-	+	-	ND
D26	-	-	-	-	/	-	-	31,27	-	-	-	NA
D33	+	+	+	+	+	+	20,33	29,83	+	+	+	PA
D36	+	+	+	+	+	+	20,77	30,16	+	+	+	PA
D38	+	+	+	+	+	+	19,64	30,22	+	+	+	PA
D42	-	-	-	-	/	-	-	30,09	-	-	-	NA
D43	+	+	+	+	+	+	20,18	29,97	+	+	+	PA
D46	+	+	+	+	+	+	19,99	29,91	+	+	+	PA
D47	+	+	+	+	+	+	21,45	30,06	+	+	+	PA
D28	+	+	+	+	+	+	21,32	29,89	+	+	+	PA
D29	+	+	+	+	+	+	21,35	30,59	+	+	+	PA
D31	+	+	+	+	+	+	22,14	30,76	+	+	+	PA
D32	+	+	+	+	+	+	21,59	30,24	+	+	+	PA
D34	+	+	+	+	+	+	21,24	30,43	+	+	+	PA
D37	+	+	+	+	+	+	22,06	30,09	+	+	+	PA
D41	+	+	+	+	+	+	22,02	30,69	+	+	+	PA
D45	+	+	+	+	+	+	21,63	30,43	+	+	+	PA

Laboratory **E1**

Thermocycler used : Roche 480

Aerobic mesophilic flora:  $2,1 \cdot 10^3$ CFU/g

N°Sample	ISO 6579-1						BioChek Salmonella Species DNA Test kit					
	RVS		MKTTn		Confirmation	Final result ISO 6579-1	PCR			Confirmation	Final result BIOCHEK	Agreement
	XLD	Brilliance Salmonella	XLD	Brilliance Salmonella			Cp value FAM	Cp value HEX	Result			
E1	-	-	-	-	/	-	-	29,75	-	-	-	NA
E6	-	-	-	-	/	-	-	29,70	-	-	-	NA
E9	-	-	-	-	/	-	-	29,78	-	-	-	NA
E11	-	-	-	-	/	-	-	29,70	-	-	-	NA
E15	-	-	-	-	/	-	-	29,75	-	-	-	NA
E20	-	-	-	-	/	-	-	29,92	-	-	-	NA
E23	-	-	-	-	/	-	36,88/-	30,04/31.4/30.9	+/-	-	-	PPNA
E24	-	-	-	-	/	-	-	30,05	-	-	-	NA
E2	+	+	+	+	+	+	21,30	28,84	+	+	+	PA
E4	+	+	+	+	+	+	23,84	29,05	+	+	+	PA
E7	+	+	+	+	+	+	20,83	28,63	+	+	+	PA
E13	+	+	+	+	+	+	23,32	29,23	+	+	+	PA
E18	+	+	+	+	+	+	22,63	28,55	+	+	+	PA
E19	+	+	+	+	+	+	22,85	29,36	+	+	+	PA
E21	+	+	+	+	+	+	22,65	29,28	+	+	+	PA
E22	+	+	+	+	+	+	23,15	29,13	+	+	+	PA
E3	+	+	+	+	+	+	22,98	29,33	+	+	+	PA
E5	+	+	+	+	+	+	21,96	29,11	+	+	+	PA
E8	+	+	+	+	+	+	21,43	28,83	+	+	+	PA
E10	+	+	+	+	+	+	21,81	28,94	+	+	+	PA
E12	+	+	+	+	+	+	22,94	29,24	+	+	+	PA
E14	+	+	+	+	+	+	22,67	29,14	+	+	+	PA
E16	+	+	+	+	+	+	22,10	28,81	+	+	+	PA
E17	+	+	+	+	+	+	22,72	29,22	+	+	+	PA

Laboratory **E2**

Thermocycler used : Roche 480

Aerobic mesophilic flora:  $2,2 \cdot 10^3$ CFU/g

N°Sample	ISO 6579-1						BioChek Salmonella Species DNA Test kit					
	RVS		MKTTn		Confirmation	Final result ISO 6579-1	PCR			Confirmation	Final result BIOCHEK	Agreement
	XLD	Brilliance Salmonella	XLD	Brilliance Salmonella			Cp value FAM	Cp value HEX	Result			
E25	-	-	-	-	/	-	36,21/-/-	28,76/30.3/30.2	+/-/-	-	-	PPNA
E27	-	-	-	-	/	-	-	29,10	-	-	-	NA
E30	+/-	+/-	-	-	+	+	-	29,63	-	+	-	ND
E35	+/-	+/-	-	-	+	+	-	28,88	-	+	-	ND
E39	-	-	-	-	/	-	-	28,85	-	-	-	NA
E40	-	-	-	-	/	-	-	28,43	-	-	-	NA
E44	-	-	-	-	/	-	-	30,24	-	-	-	NA
E48	-	+/-	-	-	+	+	-	29,09	-	+	-	ND
E26	+	+	+	+	+	+	18,95	27,64	+	+	+	PA
E33	+	+	+	+	+	+	19,64	27,34	+	+	+	PA
E36	+	+	-	-	+	+	-	28,71	-	+	-	ND
E38	+	+	+	+	+	+	20,11	27,81	+	+	+	PA
E42	+	+	+	+	+	+	19,82	27,44	+	+	+	PA
E43	+	+	+	+	+	+	20,60	27,97	+	+	+	PA
E46	+	+	+	+	+	+	19,99	27,99	+	+	+	PA
E47	+	+	+	+	+	+	19,21	27,59	+	+	+	PA
E28	+	+	+	+	+	+	18,88	27,60	+	+	+	PA
E29	+	+	+	+	+	+	19,58	27,80	+	+	+	PA
E31	+	+	+	+	+	+	18,71	27,71	+	+	+	PA
E32	+	+	+	+	+	+	17,42	27,43	+	+	+	PA
E34	+	+	+	+	+	+	19,35	27,83	+	+	+	PA
E37	+	+	+	+	+	+	19,18	27,93	+	+	+	PA
E41	+	+	+	+	+	+	18,49	26,94	+	+	+	PA
E45	+	+	+	+	+	+	18,38	26,60	+	+	+	PA

Laboratory **F1**

Thermocycler used : CFX

Aerobic mesophilic flora:  $3,2 \cdot 10^3$ CFU/g

N°Sample	ISO 6579-1						BioChek Salmonella Species DNA Test kit					
	RVS		MKTTn		Confirmation	Final result ISO 6579-1	PCR			Confirmation	Final result BIOCHEK	Agreement
	XLD	Brilliance Salmonella	XLD	Brilliance Salmonella			Cp value FAM	Cp value HEX	Result			
F1	-	-	-	-	/	-	-	31,29	-	-	-	NA
F6	-	-	-	-	/	-	-	31,38	-	-	-	NA
F9	-	-	-	-	/	-	-	31,28	-	-	-	NA
F11	-	-	-	-	/	-	-	31,10	-	-	-	NA
F15	-	-	-	-	/	-	-	31,94	-	-	-	NA
F20	-	-	-	-	/	-	-	31,74	-	-	-	NA
F23	-	-	-	-	/	-	-	31,96	-	-	-	NA
F24	-	-	-	-	/	-	-	31,41	-	-	-	NA
F2	+	+	+	+	+	+	21,64	30,63	+	+	+	PA
F4	+	+	+	+	+	+	21,20	31,08	+	+	+	PA
F7	+	+	+	+	+	+	20,57	30,89	+	+	+	PA
F13	+	+	+	+	+	+	22,07	31,30	+	+	+	PA
F18	-	-	-	-	/	-	-	31,82	-	-	-	NA
F19	+	+	+	+	+	+	23,03	31,18	+	+	+	PA
F21	+	+	+	+	+	+	21,30	31,15	+	+	+	PA
F22	+	+	+	+	+	+	21,69	30,94	+	+	+	PA
F3	+	+	+	+	+	+	21,23	30,64	+	+	+	PA
F5	+	+	+	+	+	+	22,27	30,88	+	+	+	PA
F8	+	+	+	+	+	+	21,59	31,03	+	+	+	PA
F10	+	+	+	+	+	+	22,73	31,26	+	+	+	PA
F12	+	+	+	+	+	+	21,75	31,01	+	+	+	PA
F14	+	+	+	+	+	+	22,31	31,91	+	+	+	PA
F16	+	+	+	+	+	+	21,04	30,98	+	+	+	PA
F17	+	+	+	+	+	+	21,13	31,37	+	+	+	PA

Laboratory **F2**

Thermocycler used : CFX

Aerobic mesophilic flora:  $1,3 \cdot 10^3$ CFU/g

N°Sample	ISO 6579-1						BioChek Salmonella Species DNA Test kit					
	RVS		MKTTn		Confirmation	Final result ISO 6579-1	PCR			Confirmation	Final result BIOCHEK	Agreement
	XLD	Brilliance Salmonella	XLD	Brilliance Salmonella			Cp value FAM	Cp value HEX	Result			
F25	-	-	-	-	/	-	-	30,90	-	-	-	NA
F27	-	-	-	-	/	-	-	31,55	-	-	-	NA
F30	-	-	-	-	/	-	35,27	31,51	+	-	-	PPNA
F35	-	-	-	-	/	-	35,14	31,28	+	-	-	PPNA
F39	-	-	-	-	/	-	34,76	31,35	+	-	-	PPNA
F40	-	-	-	-	/	-	34,58	31,53	+	-	-	PPNA
F44	-	-	-	-	/	-	36,38	31,38	+	-	-	PPNA
F48	-	-	-	-	/	-	34,53	31,59	+	-	-	PPNA
F26	+	+	+	+	+	+	23,49	30,79	+	+	+	PA
F33	+	+	+	+	+	+	22,03	30,54	+	+	+	PA
F36	+	+	+	+	+	+	22,78	30,89	+	+	+	PA
F38	+	+	+	+	+	+	22,12	30,98	+	+	+	PA
F42	+	+	+	+	+	+	22,89	31,02	+	+	+	PA
F43	+	+	+	+	+	+	22,49	30,96	+	+	+	PA
F46	+	+	+	+	+	+	22,96	31,05	+	+	+	PA
F47	+	+	+	+	+	+	21,99	30,90	+	+	+	PA
F28	+	+	+	+	+	+	21,23	31,07	+	+	+	PA
F29	+	+	+	+	+	+	22,64	30,84	+	+	+	PA
F31	+	+	+	+	+	+	21,92	31,42	+	+	+	PA
F32	+	+	+	+	+	+	21,02	30,88	+	+	+	PA
F34	+	+	+	+	+	+	21,26	30,74	+	+	+	PA
F37	+	+	+	+	+	+	22,43	31,06	+	+	+	PA
F41	+	+	+	+	+	+	21,23	31,07	+	+	+	PA
F45	+	+	+	+	+	+	21,28	30,96	+	+	+	PA

Laboratory **G**

Thermocycler used : CFX

Aerobic mesophilic flora: &lt;10CFU/g

N°Sample	ISO 6579-1						BioChek Salmonella Species DNA Test kit					
	RVS		MKTTn		Confirmation	Final result ISO 6579-1	PCR			Confirmation	Final result BIOCHEK	Agreement
	XLD	Brilliance Salmonella	XLD	Brilliance Salmonella			Cp value FAM	Cp value HEX	Result			
G1	-	-	-	-	/	-	-	31,27	-	-	-	NA
G6	-	-	-	-	/	-	-	30,61	-	-	-	NA
G9	-	-	-	-	/	-	-	31,05	-	-	-	NA
G11	-	-	-	-	/	-	-	31,09	-	-	-	NA
G15	-	-	-	-	/	-	-	31,77	-	-	-	NA
G20	-	-	-	-	/	-	-	31,07	-	-	-	NA
G23	-	-	-	-	/	-	-	31,87	-	-	-	NA
G24	-	-	-	-	/	-	-	31,30	-	-	-	NA
G2	+	+	+	+	+	+	25,60	30,34	+	+	+	PA
G4	+	+	+	+	+	+	25,89	30,24	+	+	+	PA
G7	+	+	+	+	+	+	25,31	31,10	+	+	+	PA
G13	+	+	+	+	+	+	26,86	31,10	+	+	+	PA
G18	+	+	+	+	+	+	27,55	31,53	+	+	+	PA
G19	+	+	+	+	+	+	25,35	30,77	+	+	+	PA
G21	+	+	+	+	+	+	26,60	31,18	+	+	+	PA
G22	+	+	+	+	+	+	27,25	31,03	+	+	+	PA
G3	+	+	+	+	+	+	24,84	30,14	+	+	+	PA
G5	+	+	+	+	+	+	25,34	30,10	+	+	+	PA
G8	+	+	+	+	+	+	26,28	30,55	+	+	+	PA
G10	+	+	+	+	+	+	27,48	31,79	+	+	+	PA
G12	+	+	+	+	+	+	26,05	30,96	+	+	+	PA
G14	+	+	+	+	+	+	27,18	31,72	+	+	+	PA
G16	+	+	+	+	+	+	22,81	30,80	+	+	+	PA
G17	+	+	+	+	+	+	25,73	31,07	+	+	+	PA

Laboratory H ADRIA

Aerobic mesophilic flora:  $4,7 \cdot 10^3$ CFU/g

Thermocycler used : CFX

N°Sample	ISO 6579-1*						BioChek Salmonella Species DNA Test kit					
	RVS		MKTTn		Confirmation	Final result ISO 6579-1	PCR			Confirmation	Final result BIOCHEK	Agreement
	XLD	Brilliance Salmonella	XLD	Brilliance Salmonella			Cp value FAM	Cp value HEX	Result			
H1	-	-	-	-	/	-	-	29,44	-	-	-	NA
H6	-	-	-	-	/	-	-	29,25	-	-	-	NA
H9	-	-	-	-	/	-	-	29,26	-	-	-	NA
H11	-	-	-	-	/	-	-	29,44	-	-	-	NA
H15	st	-	-	-	/	-	-	30,24	-	-	-	NA
H20	-	-	-	-	/	-	-	30,67	-	-	-	NA
H23	-	-	-	-	/	-	-	31,89	-	-	-	NA
H24	-	-	-	-	/	-	-	30,14	-	-	-	NA
H2	+p	+p	+p	+p	+	+	20,10	28,10	+	+	+	PA
H4	+p	+p	+p	+p	+	+	19,70	28,16	+	+	+	PA
H7	+p	+p	+p	+p	+	+	19,81	28,56	+	+	+	PA
H13	-	-	-	-	/	-	-	29,19	-	-	-	NA
H18	+p	+p	+p	+p	+	+	19,78	28,33	+	+	+	PA
H19	+M	+p	+M	+p	+	+	20,01	28,27	+	+	+	PA
H21	+p	+p	+p	+p	+	+	20,04	28,30	+	+	+	PA
H22	+p	+p	+p	+p	+	+	19,70	28,43	+	+	+	PA
H3	+p	+p	+p	+p	+	+	19,25	28,28	+	+	+	PA
H5	+p	+p	+p	+p	+	+	19,50	28,14	+	+	+	PA
H8	+M	+p	+p	+p	+	+	19,45	28,36	+	+	+	PA
H10	+1/2	+p	+M	+p	+	+	19,02	28,46	+	+	+	PA
H12	+p	+p	+p	+p	+	+	19,03	28,24	+	+	+	PA
H14	+p	+p	+p	+p	+	+	19,12	28,76	+	+	+	PA
H16	+p	+p	+M	+p	+	+	19,55	28,53	+	+	+	PA
H17	+M	+p	+p	+p	+	+	18,70	28,13	+	+	+	PA

\* Analyses performed according to the COFRAC accreditation