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NF VALIDATION Validation of alternative analytical methods Application to food microbiology

Summary report

EN ISO 16140 validation of the IRIS Salmonella® method for the detection of salmonella

Qualitative method

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Foreword

All information required to validate the analysis guarantee is made available to SOLABIA.

The results are summarised in tables and interpreted as per the EN ISO 16140 standard.

\checkmark	Manufacturer:	BIOKAR DIAGNOSTICS
		Rue des Quarante Mines
		BP 10245
		60002 BEAUVAIS Cedex
\checkmark	Expert laboratory:	ADRIA Développement
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		29196 QUIMPER Cedex
\checkmark	Method to validate:	IRIS Salmonella® for the detection of
·	method to validate.	Salmonella
		California
\checkmark	Validation standard:	EN ISO 16140 (October 2003): microbiology of the
		food chain - Protocol for the validation of
		alternative methods
\checkmark	Reference method *:	ISO 6579:2002 - Microbiology of food and animal
·		feeding stuffs - Horizontal method for the detection
		of Salmonella spp.
\checkmark	Validation scope	Human foods and animal feeds
		Environmental samples (excluding primary
		production environment)
\checkmark	Certification body:	AFNOR Certification

[•] Test conducted under accreditation ADRIA Développement Summary report (Version 0) IRIS Salmonella

1 INTRODUCTION

1.1 Date of initial validation, extension and renewal studies

The IRIS Salmonella® method was validated on 07 October 2011 for human food, animal feed and environmental samples, for test specimens of up to 25 g (certificate no. BKR 23/07 - 10/11).

An extension of alternative method validation was obtained, in January 2014, for the detection of *Salmonellae* in milk powder, including infant formula with and without probiotics, and in animal feed meal and cubes for test specimens larger than 25 g.

For the 2014 extension study, 375 g and 125 g sample size were used respectively for milk powder and animal feed.

The method was renewed in July 2015 with no additional tests.

1.2 Reference method to which the alternative method was compared

The reference method is the ISO 6579 standard: Microbiology of food and animal feeding stuffs - Horizontal method for the detection of *Salmonella* spp. The protocol is given in **Appendix 1**.

It should be noted that the reference method was performed using the same sample size as the alternative method, i.e. 25 g for all categories during initial validation, 125 g for animal feed and 375 g for powdered milk during the extension study.

1.3 Alternative method

The IRIS *Salmonella*® method is based on a combination of enrichment in supplemented peptone water and isolation on selective agar.

Several protocols are available depending on the sample size used:

- pre-enrichment in Salmonella broth, Supplemented enrichment:

All categories	25 g + 225 ml 16 - 24 h at 41.5 ℃ ± 1 ℃
Powdered milk	375 g + 3,375 ml 18 - 24 h at 41.5 ℃ ± 1 ℃
Animal feed	125 g + 1,125 ml 18 - 24 h at 41.5 °C ± 1 °C

- isolation of 10 μ l on IRIS *Salmonella* chromogenic agar, incubation for 24 ±3 h at 37 °C ±1 °C,
- confirmation by latex test (CONFIRM' Salmonella or OXOID latex text ref. FT0203A) on an isolated colony, or by means of the tests described in the reference method.

The enrichment can be stored for 72 h at 2-8 °C in all cases, except for animal feed with a 125 g sample size.

The protocols are given in Appendix 2.

2 MAIN RESULTS OBTAINED DURING INITIAL VALIDATION (2011) AND DURING THE EXTENSION STUDY (2014)

2.1 Method comparative study

2.1.1 Relative accuracy, relative specificity and relative sensitivity (Initial validation - 2011)

Accuracy is the closeness of fit between the test result and the accepted reference value.

Relative specificity is defined as the degree to which the method is affected (or not) by the other components in a multi-component sample. It represents the method's ability to accurately measure or quantify a given analyte in a sample without interference from other non-target components, such as for example a matrix effect or background noise.

Relative sensitivity is defined as the alternative method's ability to detect two different amounts of analyte previously measured by the reference method, using a given matrix, over the entire measurement range. The variation in minimum quantity (increase in analyte x concentration) that gives a significant variation in measured signal (response y).

2.1.1.1 Number and type of samples

389 samples were analysed both by the reference method and the alternative method. The distribution per category is given in table 1:

Category	Туре	Positive*	Negative	Total
	Raw meat other than poultry	14	20	34
Mootproducto	Poultry	12	8	20
Meat products	Miscellaneous delicatessens	8	7	15
	Total	34	35	69
	Rawmilk	10	9	19
Dairy products	Rawmilkcheese	10	9	19
Daily products	Milk powder, ice-cream, miscellaneous	13	12	25
	Total	33	-30	63
	Frozen vegetables	8	10	18
Vegetables, fishery products	Readymeals	11	10	21
and miscellaneous	Shellfish, fish	12	10	22
	Total	31	30	61
	Liquid egg portions	9	11	20
Egg products	Mayonnaise	9	12	21
Lgg products	Powdered eggs, miscellaneous	13	10	23
	Total	31	33	64
	Pet food	8	8	16
Animal	Fresh products	12	11	23
feed	Cattle feed	11	20	31
	Total	31	39	70
	Cleaning water, dust	12	8	20
Environmental	Process water	11	15	26
samples	Surface samples	10	6	16
	Total	33	29	62
	General total	193	196	389

* These samples are positive by one or other method

2.1.1.2 Artificial sample contamination

Samples were artificially contaminated by inoculation.

170 samples were inoculated. 144 samples gave a positive result by one or other of the methods. 75% of these samples were contaminated with a rate less than or equal to 5 CFU/25 g. The injury protocol and the injury measurement are given in **Appendix 3**. 43 strains were used, representing 22 different serotypes.

The naturally contaminated samples represented 25.4%.

2.1.1.3 Test results

The raw results are given in Appendix 4.

Interpretations for all confirmation tests (latex, reference tests) were performed after incubating the supplemented buffered peptone water for 16 and 24 h at 41.5 $^{\circ}$ C.

The results for all products are given in Table 2 and by category (tables 3 to 8).

The following abbreviations are used:

A+ = confirmed positive

A- = immediate negative and negative after confirmation when presumed positive

- PA = positive agreement
- NA = negative agreement
- PD = positive deviation
- ND = negative deviation
- PPNC = presumed positive, not confirmed

Table 2 - Result pairs for the reference and alternative methods - <u>All products</u>

	16 h incubation		24 h incubation	
Response	Reference method	Reference method	Reference method	Reference method
	positive (R+)	negative (R-)	positive (R+)	negative (R-)
Alternative method	Positive agreement (A+/R+)	Positive deviation (R-/A+)	Positive agreement (A+/R+)	Positive deviation (R-/A+)
positive (A+)	PA = 153	PD = 18	PA = 154	PD = 18
Alternative method	Negative deviation (A-/R+)	Negative agreement (A+/R+)	Negative deviation (A-/R+)	Negative agreement (A+/R+)
negative (A-)	ND = 22	NA = 196 (PPNA = 4)	ND = 21 (PPND = 1)	NA = 196 (PPNA = 1)

	16 h incubation		24 h incubation	
Response	Reference method positive (R+)	Reference method negative (R-)	Reference method positive (R+)	Reference method negative (R-)
Alternative method	Positive agreement	Positive deviation (R-/A+)	Positive agreement	Positive deviation (R-/A+)
positive (A+)	(A+/R+)	PD = 7	(A+/R+)	PD = 7
	PA = 18		PA = 19	
Alternative method	Negative deviation (A-/R+)	Negative agreement	Negative deviation (A-/R+)	Negative agreement
negative (A-)	ND = 9	(A+/R+)	ND = 8	(A+/R+)
		NA = 35		NA = 35
Table 4 - Dairy products				

Table 3 - Meat products

Table 4 - Dairy products

	16 h incubation		24 h incubation	
Response	Reference method	Reference method	Reference method	Reference method
	positive (R+)	negative (R-)	positive (R+)	negative (R-)
Alternative method	Positive agreement (A+/R+)	Positive deviation (R-/A+)	Positive agreement (A+/R+)	Positive deviation (R-/A+)
positive (A+)	PA = 28	PD = 2	PA = 28	PD = 2
Alternative method	Negative deviation (A-/R+)	Negative agreement (A+/R+)	Negative deviation (A-/R+)	Negative agreement (A+/R+)
negative (A-)	ND = 3	NA = 30	ND = 3	NA = 30

Table 5 - Vegetables, fishery products and miscellaneous

	16 h incubation		24 h incubation	
Response	Reference method	Reference method	Reference method	Reference method
	positive (R+)	negative (R-)	positive (R+)	negative (R-)
Alternative method	Positive agreement (A+/R+)	Positive deviation (R-/A+)	Positive agreement (A+/R+)	Positive deviation (R-/A+)
positive (A+)	PA = 29	PD = 1	PA = 29	PD = 1
Alternative method	Negative deviation (A-/R+)	Negative agreement (A+/R+)	Negative deviation (A-/R+)	Negative agreement (A+/R+)
negative (A-)	ND = 1	NA = 30	ND = 1	NA = 30

Table 6 - Egg products

	16 h incubation		24 h incubation	
Response	Reference method	Reference method	Reference method	Reference method
	positive (R+)	negative (R-)	positive (R+)	negative (R-)
Alternative method	Positive agreement (A+/R+)	Positive deviation (R-/A+)	Positive agreement (A+/R+)	Positive deviation (R-/A+)
positive (A+)	PA = 28	PD = 1	PA = 27	PD = 1
Alternative method	Negative deviation (A-/R+)	Negative agreement (A+/R+)	Negative deviation (A-/R+)	Negative agreement (A+/R+)
negative (A-)	ND = 2	NA = 33 (PPNA = 3)	ND = 3 (PPND = 1)	NA = 33 (PPNA = 1)

Table 7	- Animal	feed
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	16 h inc	cubation	24 h incubation			
Response	Reference method	Reference method	Reference method	Reference method		
	positive (R+)	negative (R-)	positive (R+)	negative (R-)		
Alternative method	Positive agreement (A+/R+)	Positive deviation (R-/A+)	Positive agreement (A+/R+)	Positive deviation (R-/A+)		
positive (A+)	PA = 26	PD = 2	PA = 27	PD = 2		
Alternative method	Negative deviation (A-/R+)	Negative agreement (A+/R+)	Negative deviation (A-/R+)	Negative agreement (A+/R+)		
negative (A-)	ND = 3	NA = 39 (PPNA = 1)	ND = 2	NA = 39		

Table 8 - Environmental samples

	16 h ind	cubation	24 h incubation			
Response	Reference method	Reference method	Reference method	Reference method		
	positive (R+)	negative (R-)	positive (R+)	negative (R-)		
Alternative method	Positive agreement (A+/R+)	Positive deviation (R-/A+)	Positive agreement (A+/R+)	Positive deviation (R-/A+)		
positive (A+)	PA = 24	PD = 5	PA = 24	PD = 5		
Alternative method	Negative deviation (A-/R+)	Negative agreement (A+/R+)	Negative deviation (A-/R+)	Negative agreement (A+/R+)		
negative (A-)	ND = 4	NA = 29	ND = 4	NA = 29		

2.1.1.4 Calculation of relative accuracy (AC), relative sensitivity (SE) and relative specificity (SP)

PA = Positive agreement (R+/A+)PD = Positive deviation (R-/A+) NA = Negative agreement (R-/A-) ND = Negative deviation (A-/R+)

Table 9 - Calculation of relative accuracy (AC), relative sensitivity (SE) and relative specificity (SP) - <u>16 h incubation</u>

Matrices	AP	NA	ND	PD	N	Accuracy Relative AC (%) [100x (PA+NA])/N]	N+ PA + ND	Sensitivity Relative SE (%) [100xPA]/N+]	N- NA + PD	Specificity Relative SP (%) [100xNA]/N-]
Meat products	18	35	9	7	69	76.8	27	66.7	42	83.3
Dairy products	28	30	3	2	63	92.1	31	90.3	32	93.8
Fishery products	29	30	1	1	61	96.7	30	96.7	31	96.8
Vegetables	28	33	2	1	64	95.3	30	93.3	34	97.1
Animal feed	26	39	3	2	70	92.9	29	89.7	41	95.1
Environment	24	29	4	5	62	85.5	28	85.7	34	85.3
TOTAL	153	196	22	18	389	89.7	175	87.4	214	91.6

Matrices	AP	NA	ND	PD	N	Accuracy Relative AC (%) [100x(PA+NA])/N]	N+ PA + ND	Sensitivity Relative SE (%) [100xPA]/N+]	N- NA + PD	Specificity Relative SP (%) [100xNA]/N-]
Meat products	19	35	8	7	69	78.3	27	70.4	42	83.3
Dairy products	28	30	3	2	63	92.1	31	90.3	32	93.8
Fishery products	29	30	1	1	61	96.7	30	96.7	31	96.8
Vegetables	27	33	3	1	64	93.8	30	90.0	34	97.1
Animal feed	27	39	2	2	70	94.3	29	93.1	41	95.1
Environment	24	29	4	5	62	85.5	28	85.7	34	85.3
TOTAL	154	196	21	18	389	90.0	175	88.0	214	91.6

Table 10 - Calculation of relative accuracy (AC), relative sensitivity (SE) and relative specificity (SP) - <u>24 h incubation</u>

The percentage values calculated for the alternative method are as follows:

	16 h incubation	24 h incubation
Relative accuracy	89.7	90.0
Relative specificity	91.6	88.0
Relative sensitivity	87.4	91.6

The sensitivity of the two methods taking into account the additional positive results of the alternative method is as follows:

	16 h incubation	24 h incubation
Alternative method (SE)	88.6	89.1
Reference method (SE)	90.7	90.7

2.1.1.5 Analysis of discrepancies

After incubation for 16 h, 22 negative deviations were observed; these are listed in table 11:

Table 11	- Negative	deviations
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			Alternativ	e method	
No. Spl.	Product	Results ISO 6579	Result obtained after 16 h incubation of supplemented BPW	Result obtained after 24 h incubation of supplemented BPW	Contamination (strain inoculated / inoculation rate)
1463	Pork meat	1 colony on XLD	-	-	Natural
1763	VS	+ on 4 plates	-	-	Natural
1764	Ground chicken meat	+ on 4 plates	-	-	Natural
1766	Duckling stuffed with mushrooms	+ on 4 plates	-	-	Natural
1770	Ground chicken meat	+ on 4 plates	-	+	Natural
2212	Dried sausage	+ on 4 plates	-	-	Natural
2222	Ground chicken meat	+ on 4 plates	-	-	Natural
2297	Pool of sausage	+ on 4 plates	-		Natural
2299	Sausage meat	+ on 4 plates	•	-	Natural
2173	Brie de Meaux	+ (XLD)	-	-	Artificial (S. Dublin Ad 531 / 3.4)
2744	Semi-skim powdered milk	+ on 4 plates		+	Artificial (S. Typhimurium 4 / 0.2)
2746	Skimmed powdered milk	+ on 4 plates		-	Artificial (S. anatum Ad 298 / 1.0)
2101	Salmon and scallop au gratin	+ on 4 plates	-	-	Artificial (S. Anatum Ad 1451 / 5.2)
2168	Mayonnaise	+ on 4 plates	-	-	Artificial (S. Enteritidis Ad 638 / 3.6)
2505	Liquid egg yoke portion	+ on 3 plates	-	-	Natural
2608	Poultry pâté	+ on 4 plates	-	+	Artificial (S. Livingstone F105 / 0.2)
2814	Wheat meal for pigs	+ (RVS)	-	+	Artificial (S. infantis 179 / 1.2)
2823	Mix cake	+ (RVS)	-	-	Artificial (S. Derby SD43 / 1.8)
2188	Cooling water	+ on 4 plates	-	-	Artificial (S. infantis Ad 1404 / 3.8)
2724	Swab	+ on 4 plates	-	-	Natural
2736	Wash water	+ on 4 plates	-	-	Artificial (S. Typhimurium 528 / 2.4)
2738	Wash water	+ on 4 plates	-	-	Artificial (S. Typhimurium Ad 1070 / 0.8)

Of these 22 negative deviations after incubating the supplemented buffered peptone water at 41.5 °C, 4 gave matching results after 24 h incubation.

11 samples were naturally contaminated and the other 11 were artificially contaminated at levels of 0.2 to 5.2 cells/25g. As the enrichments of the alternative method and of the reference method are different, we can assume that, for 18 of the samples, there was a sampling problem. It should be noted that for sample 1463, only one characteristic colony was isolated by the reference method, suggesting a very low sample contamination.

The 18 positive deviations are listed in table 12.

		Alternativ	e method	
No. Spl.	Product	supplemented BPW incubated for 16 h at 41.5°C	supplemented BPW incubated for 24 h at 41.5°C	Contamination (inoculated strain / inoculation rate)
1456	Pork sausage	+	+	Natural
1773	Minced beef	+	+	Natural
1776	Minced heifer meat	+	+	Natural
1777	Minced beef	+	+	Natural
2215	Sausage meat	+	+	Natural
2216	Chipolatas	+	+	Natural
2223	Plain poultry skewer	+	+	Natural
2389	Raw milk	+	+	Natural
2745	Made noudered mills			Artificial
2745	Whole powdered milk	+	+	(S. Typhimurium 4 / 0.2)
2720	Ratatouille vegetables		+	Artificial
2120			т	(S. kottbus 3 / 3.6)
2791	Powder for custard cream	+	+	Artificial
				(S. Typhimurium 776 / 0.6)
2808	Meal for poultry	+	+	Artificial
				(S. cerro Ad 689 / 2.0)
2826	Pellets for calves	+	-	Artificial
				(S. blockley Ad 923 / 1.8) Artificial
2742	Process water	+	+	(S. senftenberg 1 / 10.6)
				Artificial
2838	Process water	+	+	(S. Havana Ad 930 / 2.0)
				Artificial
2841	Cooling water	+	+	(S. blockley Ad 923 / 1.8)
0040				Artificial
2842	Cooling water	+	+	(S. Bovismorbificans / 2.8)
2843	Swab		+	Artificial
2043	Swap	+	+	(S. Typhimurium Ad 1070 / 13.0)

Table 12 - Positive deviations

2.1.1.6 Statistical tests as per appendix F of the EN ISO 16140 standard

The results of the statistical tests obtained for 16 and 24h incubation are given in the table below:

	16 h incubation	24 h incubation				
Y = ND + PD	40	39				
d = ND - PD	4	3				
$X^2 = d^2/Y$	0.400	0.231				
Conclusion	X ² < 3,841: the two methods are not	$X^2 < 3,841$: the two methods are not significantly different at or 0.05.				

Table 13 – Mc Nemar tests

2.1.1.7 Confirmation protocols

The characteristic *Salmonella* colonies were confirmed by direct latex colony test (two latex tests were performed during validation: *Salmonella* latex test by OXOID and CONFIRM *Salmonella*) and by the tests described in the ISO 6579 reference method.

For 3 naturally contaminated raw milk samples (no. 2386, 2389 and 2390), the two latex tests gave negative results; for 2 raw milk samples artificially contaminated with *Salmonella diarizonae* Ad1280 (no. 2706 and 2707), only the *Salmonella* latex test by OXOID gave a positive result; it should be noted that this strain, used for the inclusivity test, gave a very weakly positive CONFIRM *Salmonella* latex test.

2.1.1.8 Plate storage at 2-8 °C

In order to assess the possibility of refrigerating the IRIS plates for 72 h after reading, a second isolation was performed from the buffered peptone water incubated for 16 h at 41.5 °C. The plates were read before and after storage.

A single change was observed with sample 2664 for which no characteristic colonies had been observed before storage and pale characteristic colonies had appeared after refrigerating the plate. The colonies were identified as being *Escherichia coli*.

During this study, it was noted that refrigerating the plates tended to improve the contrast between *Salmonella* colonies and the secondary flora.

2.1.1.9 Enrichment storage at 2-8 °C

The positive and conflicting sample enrichments were stored for 72 h at 2-8 °C before being re-isolated on IRIS agar.

6 result changes were observed:

Та	ble	14

Spl. no.	Results of the	Result of the alternative method		
	ISO 6579 reference method	Before storage	After storage	
1461	+	+ (=)	- (ND)	
1770	+	- (ND)	+ (=)	
2743	+	+ (=)	- (ND)	
2797	+	+ (=)	- (ND)	
2822	+	+ (=)	- (ND)	
2826	+	+ (PD)	- (=)	

d = 8

ND = 22 + (4 - 1) = 25PD = 18 - 1 = 17

Y = ND + PD = 25 + 17 = 42

X² = 1.976

2.1.1.10 Conclusion

The IRIS Salmonella® method gives satisfactory relative accuracy, specificity and sensitivity results, whatever the enrichment incubation period, whether the medium (enrichment broth or chromogenic agar) is refrigerated or not.

2.1.2 Relative accuracy, relative specificity and relative sensitivity (Extension study - 2014)

2.1.2.1 Number and type of samples

In total, 125 samples were analysed. The distribution per category is given in the following table:

Categories	Types	Positive* (number)	Negative (number)	Total (number)
	 Caseinates, whey, powdered milk derivatives 		13	22
Milk powder	 ✓ Infant formula and other milk (with/without probiotics) 	10	10	20
	✓ Hypoallergenic milk powder	13	10	23
	Total	32	33	65
	✓ Meal	14	10	24
	✓ Cubes	11	11	22
Animal meals and cubes	✓ Dried raw materials	5	9	14
	Total	30	30	60
TOTAL		62	63	125

* These results are positive by one or other method

2.1.2.2 Artificial sample contamination

Samples were artificially contaminated by inoculation.

81 samples were inoculated. 60 samples gave a positive result by one or other of the methods (see figures 1 and 2). The injury protocol and the injury measurement are given in **Appendix 5** –.



Figure 1 - Contamination levels used





Only 2 naturally contaminated samples (no. 5116 and 5359) were analysed during this study.

2.1.2.3 Confirmation protocols

The characteristic colonies observed on IRIS agar were confirmed by the conventional tests of the reference method and by the CONFIRM Salmonella latex test.

2.1.2.4 Test results

The raw results are given in Appendix 6.

Table 15 - Result pairs for the referenceand alternative methods - Milk powder

Answers	Reference method positive (R+)	Reference method negative (R-)
Positive alternative method	Positive agreement (A+/R+)	Positive deviation (R-/A+)
(A+)	PA = 24	PD = 5
Negative alternative method	Negative deviation (A-/R+)	Negative agreement (A+/R+)
(A-)	ND = 3 (PPND = 0)	NA = 33 (PPNA = 0)

Table 16 - Result pairs for the referenceand alternative methods - Animal feed

Answers	Reference method positive (R+)	Reference method negative (R-)
Positive alternative method	Positive agreement (A+/R+)	Positive deviation (R-/A+)
(A+)	PA = 21	PD = 3
Negative alternative method	Negative deviation (A-/R+)	Negative agreement (A+/R+)
(A-)	ND = 6 (PPND = 0)	NA = 30 (PPNA = 0)

A+ = confirmed positive

A- = immediate negative and negative after confirmation when presumed positive

Table 17 - Calculation of relative accuracy (AC), relative sensitivity (SE) and relative specificity (SP)

Matrices	AP	NA	ND	PD	N	Accuracy Relative AC (%) [100x(PA+NA])/N]	N+ PA + ND	Sensitivity Relative SE (%) [100xPA]/N+]	N- NA + PD	Specificity Relative SP (%) [100xNA]/N-]
Powdered milk	24	33	3	5	65	87.7	27	88.9	38	86.8
Animal meals and cubes	21	30	6	3	60	85.0	27	77.8	33	90.9
TOTAL	45	63	9	8	125	86.4	54	83.3	71	88.7

2.1.2.5 Calculation of relative accuracy (AC), relative sensitivity (SE) and relative specificity (SP)

The percentage values calculated for the alternative method are as follows:

- relative accuracy: AC = 86.4%
- relative specificity: **SP = 88.7%**
- relative sensitivity: **SE = 83.3%**

The sensitivity of the two methods taking into account the additional positive results of the alternative method is as follows:

Alternative method:	Reference method:
(PA + PD) / (PA + PD + ND) = 85.5%	(PA + ND)/(PA + PD + ND) = 87.1%

2.1.2.6 Analysis of discrepancies

The 17 conflicting samples are distributed as follows:

- Spl.no. Product Contamination Strain (inoculation rate) 3039 Powdered milk Artificial Salmonella Ohio Ad 1482 (1.0) 3730 Artificial Whey protein Salmonella Montevideo 510 (5.8) 3731 Milk protein isolates Artificial Salmonella Mbandaka Ad 1722 (2.2) 4906 Guinea fowl feed Artificial Salmonella Infantis 179 (3.8) 4913 **Fish meal** Artificial Salmonella Kedougou Ad 1502 (6.0) 5000 Cattle feed (meal) Salmonella Montevideo Ad 1503 (9.2) Artificial 5002 Bran Artificial Salmonella enterica 6.7:-:- Ad1 844 (8.4) 5004 Maize dregs Artificial Salmonella enterica 18:-:- Ad1846 (8.4) 5006 Dairy cow feed Artificial Salmonella enterica 13,23:-:- Ad 1847 (9.0)
- Negative deviations: 9

Positive deviations: 8

Spl.no.	Product	Contamination	Strain (inoculation rate)
2356	Powdered milk with	Artificial	Salmonella Montevideo Ad 912 (1.2)
	probiotics		
3993	Powdered skim milk	Artificial	Salmonella Mikawasima Ad 1811 (4.4)
3994	Powdered formula milk	Artificial	Salmonella Duisburg Ad 1812 (8.0)
	with ferment		
3995	Powdered formula milk Artificial Salmonella Mbandaka Ad 18		Salmonella Mbandaka Ad 1810 (4.8)
4121	Mild whey	Artificial	Salmonella Duisburg Ad 1812 (11.6)
5009	Cattle feed	Artificial	Salmonella enterica 18:-:- Ad1846 (8.4)
5119	Dried dog food	Artificial	Salmonella Cerro Ad 689 (7.2)
5359	Feed raw materials	Natural	Salmonella 4.5:i:

As the enrichments for the alternative method and reference method were different, the discrepancies observed were probably due to a sampling problem.

The number of discrepancies between the reference method and the alternative method is of:

y = ND + PD = 9 + 8 = 17 m = 8 M = 4

m > M: the two methods are not significantly different.

2.1.2.7 Enrichment storage for 72 h at 2-8 °C

Storage was tested for milk powder only. No changes were observed.

2.1.3 Relative limit of detection (Initial validation - 2011 and extension study - 2014)

The relative limit of detection corresponds to the smallest number of culturable micro-organisms that can be detected in the sample, with a probability of 50%, using the alternative and reference methods.

2.1.3.1 Matrices used

The purpose of this study was to determine the minimum amounts of *Salmonella* that can be detected in the food matrix and to compare them to those obtained by the reference method.

The limits of detection were determined by the analysis of 6 matrix/strain pairs at four different levels. Six replicates of each experimental condition were performed.

The matrix/strain pairs tested were as follows:

- Initial validation (2011):
 - * minced steak inoculated with Salmonella Typhimurium A00C060,
 - * raw milk inoculated with Salmonella Infantis 401 B,
 - * pollack inoculated with Salmonella Derby Ad 1093,
 - * liquid egg portion inoculated with Salmonella Enteritidis 657,
 - * dried dog food inoculated with Salmonella Agona A00V038,
 - * wash water inoculated with Salmonella Senftenberg 6.

- Extension study (2014):

- * infant formula with probiotics inoculated with *Salmonella* Anatum Ad 298, isolated from powdered milk,
- * soya cakes inoculated with *Salmonella* Agona A00V0038, isolated from animal feed,

2.1.3.2 Contamination protocol

Six 25 g bags were prepared per matrix and per rate. The bags were inoculated individually with a bacterial suspension.

The analyses were performed both by the reference method and the alternative method; the minimum enrichment broth incubation period (i.e. 16 h for the initial study and 18 h for the extension study) was tested.

The matrices used were analysed before inoculation by the reference method, in order to ensure that the samples were not already contaminated with *Salmonella*.

2.1.3.3 Results

	Pair (strain, matrix)	Relative limit (CFU / spe according to the Spe	ecimen)
		Reference method	Alternative method
	Minced steak / Salmonella Typhimurium A00C060 (25 g)	0.5 [0.3; 0.7]	0.6 [0.4; 0.8]
_	Raw milk / <i>Salmonella</i> Infantis 401 B (25 g)	0.5 [0.3; 0.9]	0.8 [0.4; 1.5]
Initial validation (2011)	Pollack / Salmonella Derby Ad 1093 (25 g)	0.7 [0.4; 1.2]	0.4 [0.2; 0.7]
nitial va (20	Liquid egg portion / Salmonella Enteritidis 657 (25 g)	0.4 [0.3; 0.8]	0.7 [0.4; 1.5]
_	Dried dog food / Salmonella Agona A00V038 (25 g)	0.8 [0.4; 1.5]	1.2 [0.7; 2.0]
	Wash water / Salmonella Senftenberg 6 (25 g)	0.6 [0.4; 1.0]	0.8 [0.5; 1.4]
n study 14)	Infant formula with probiotics / Salmonella Anatum Ad 298 (375 g)	1.2 [0.6; 2.4]	0.8 [0.5; 1.3]
Extension study (2014)	Soya cakes / Salmonella Agona A00V0038 (125 g)	0.5 [0.3; 0.9]	0.6 [0.3; 1.2]

Table 18 - Relative limit of detection results

The relative limit of detection was of between 0.3 and 2.4 CFU/sample for the reference method and between 0.2 and 2.0 CFU/sample for the alternative method.

The limits of detection of the alternative and reference methods are equivalent.

 ¹ "Hitchins A. Proposed Use of a 50% Limit of Detection Value in Defining Uncertainty Limits in the Validation of Presence-Absence Microbial Detection Methods, Draft 10th December, 2003".
 ADRIA Développement 21/98 06 July 2015
 Summary report (Version 0)
 IRIS Salmonella

2.1.4 Inclusivity / Exclusivity

Inclusivity is the ability of the alternative method to detect the target analyte in a broad range of strains.

Exclusivity is the absence of interference to the alternative method by an appropriate range of nontarget strains.

The purpose of the specificity study is to verify that all target strains are detected by the alternative method and that there are no cross-reactions with non-target strains.

2.1.4.1 Test protocols

Inclusivity protocol: The Salmonella strains were cultured at 37 °C in BHI broth. Dilutions were then made such as to inoculate the supplemented buffered peptone water with approximately 10 cells/225 ml. The full protocol of the alternative method was then applied. For one strain, milk (25 ml) had to be added to achieve growth in the enrichment medium (Salmonella Gallinarium biovar pullorum ad300).

Exclusivity protocol: the strains were cultured at 37 °C in BHI broth. Dilutions were then made such as to inoculate the buffered peptone water with approximately 105 CFU/225 ml. The full protocol of the alternative method was then applied.

2.1.4.2 Results

The results are presented in PApendix 7.

✓ Inclusivity

58 Salmonella strains were tested; these all gave a positive result by the IRIS Salmonella® method. 5 strains gave pale and occasionally smaller colonies on IRIS agar. These strains were: Salmonella diarizonae Ad 1280, Salmonella Gallinarum 1 and 2, along with Salmonella houtenae Ad 597.

All strains gave positive results with the OXOID Salmonella Latex Test and 3 strains (Salmonella Gallinarum 1 and 2 and Salmonella Paratyphi ATCC 9150) gave a negative result with the CONFIRM Salmonella kit, but a positive result with the OXOID latex test.

✓ Exclusivity

None of the 30 strains tested was detected by the IRIS Salmonella® method.

2.1.5 Conclusion

The IRIS Salmonella® method is specific and selective.

2.2 **Practicability**

Practicability is determined by entering the 13 criteria defined by the AFNOR technical rules.

Points 1, 2, 3 and 4 are g	nivon in tho	table below:
FUILS 1. Z. S and 4 are 1		lable below.

Reagent	Reference	1. Packaging method		2. Volume of reagents	3. Storage conditions	4. Details of use after first use
Salmonella Enrichment	BM13608	Pack of 10 bottles	10 x	225 ml	2-25 °C	Natappliaabla
broth (EPT BKD)					2-23 0	Not applicable
IRIS agar	BM16008	x 20 plates	18 m			
	or				2-8 °C	Not applicable
	BM16108	x 120 plates				
Supplements:						
IRIS Salmonella®	BS07800	Bottle	50 m	I	2-8 °C	to DLC
liquid supplement						
IRIS Salmonella®	BS077	Blister of	12 ur	iits	2-8 °C	to DLC
tablet supplement		tablets				
Latex test	BT01108	Kit for	Latex	reagent 2.5 ml		
CONFIRM Salmonella		50 tests	Positi	ve control: 0.5 ml	2-8 °C	to DLC
			Nega	tive control: 0.5 ml		

2

5. Specific equipment or rooms required

No specific equipment is required, the equipment routinely used in a microbiology laboratory is sufficient.

6. Ready-to-use or powdered reagents

All reagents and media are ready-to-use.

7. Training time for uninitiated operators

Half a day

8. Actual manipulation time and method flexibility (in minutes)

Steps	Reference method ISO 6579	Alternative method IRIS Salmonella
	24 Samples	24 Samples
Sample collection	48	48
Stomachage	36	36
Subculture to RVS and MKTTn	45	1
Isolation on selective agar	75	24
Plate reading	30	10
Total / negative sample	9.8	3.7
Streaking on nutrient agar	20	1
Latex test	1	15
Confirmation test	120	1
Total / positive sample	15.6	5.5

For a positive or negative sample, the IRIS Salmonella® method takes approximately 3 times less manipulation time than the reference method.

9. Time to result

Negative sample

	Step	Reference method ISO 6579	Alternative method IRIS Salmonella
	Pre-enrichment	D0	D0
	Enrichment	D1	/
	Streaking	D2	D1
Reading		D3	D2

- Positive sample

Step	Reference method ISO 6579	Alternative method IRIS Salmonella
Pre-enrichment	D0	D0
Enrichment	D1	/
Streaking	D2	D1
Reading	D3	D2
Latex test		D2
Confirmation test	D4 to D6	D2

A negative result is obtained in 2 days by the IRIS *Salmonella®* method. A positive result is obtained in 2 days by the IRIS *Salmonella®* method versus 4 to 6 days for the reference method.

10. Type of operator qualification

No special qualifications are required

11. Steps common with the reference method

None

12. Analytical result traceability

Not applicable

- 13. Maintenance by the laboratory
- Not applicable

2.3 Inter-laboratory study

2.3.1 Study organisation

2.3.1.1

Implementation

17 laboratories took part in the study.

The study focused on minced beef, inoculated with *Salmonella* Typhimurium A00C060.

The samples in Stomacher bags were individually inoculated at a rate of 8 bags per rate, per method and per laboratory. Each laboratory received 48 samples to analyse: 24 by the reference method and 24 by the alternative method.

2.3.1.2 Sample preparation and contamination (including contamination level)

All samples were dispensed into sterile bags by the expert laboratory, at a rate of 25 g per bag, before being contaminated.

✓ Contaminant suspension preparation

Two suspensions (125 cells/ml and 25 cells/ml) were prepared from an overnight culture in BHI broth at 27 °C according to the protocol described in the requirements for preliminary and collaborative studies of the AFNOR technical rules.

Sample contamination protocol

The low rate inoculation was performed using 200 μ l of the 25 cells/ml suspension, while the high rate inoculation was performed using 200 μ L of the 125 cells/ml suspension.

After inoculation, the samples were refrigerated prior to shipment.

The target inoculation rates were as follows:

- 0 CFU/25 ml,
- 1-10 CFU/25 ml,
- 5-50 CFU/25 ml.
- 2.3.1.3 Shipment details: date and means implemented for temperature monitoring (during transport and upon receipt)

The samples were shipped on Monday 04 July 2011 and analysed on Wednesday 06 July 2011.

The coded samples (code known only to the expert laboratory) were placed in isothermal boxes containing refrigerant blocks and shipped to the various laboratories by means of an express transport system.

A temperature control bottle containing a temperature probe was added to the package, in order to monitor the temperature during transport and to measure it upon receipt.

Each laboratory, identified by a letter, received the following:

- 24 samples (25 g) encoded for the detection of *Salmonella* by the IRIS *Salmonella*® method (red sticker)
- 24 samples (25 g) encoded for the detection of *Salmonella* by the ISO 6579 (2002) method (blue sticker),
- 1 non-encoded sample for the enumeration of aerobic mesophilic flora in minced meat by the ISO 4833 method,
- 1 water bottle containing a temperature probe.

2.3.1.4 Elements required by the partner laboratories to conduct the tests

The reagents required for the alternative method and reference method were provided by SOLABIA.

The expert laboratory provided detailed instructions to the laboratories.

2.3.2 Experimental parameter control

2.3.2.1 Level of contamination before inoculation, levels obtained after artificial contamination and sample stability

Before inoculation

The detection of target bacteria in the matrix was performed on five samples to ensure that they were absent.

4 Rates obtained after artificial contamination

The contamination levels obtained in the matrix, along with precision estimates, are given in the following table:

Level	Samples	Inoculation concentrati on level (b/25 g)	Actual level (b/25 g of sample)	Estimation of the lower contamination contamination per 25 g of sample	Estimation of the upper contamination limit per 25 g of sample
Level 0	3 – 5 – 9 – 13 – 15 – 18 – 21 – 23	1		1	/
Low level	2-7-8-10- 12-14-19- 22	5	7.1	6.1	8.1
High rate	1 - 4 - 6 - 11 - 16 - 17 - 20 - 24	25	29.9	25.9	34.4

Sample stability

Counts were performed on 3 samples inoculated at high rates. Detection was performed on three samples for the low inoculation rate. The results are presented in the following table:

Dav	I	CFU/g (XLD)		D	etection / 25 g	J
Day	1	2	3	1	2	3
D0	100	110	100	+	+	+
D1	100	140	80	+	+	+
D2	100	140	120	+	+	+

No change inoculation rate was observed.

2.3.2.2 Temperature measured during transport, temperature upon receipt and receipt times.

The temperatures monitored during transport and measured upon receipt, along with sample receipt date are given in Table 19.

Laboratories	Temperature read by the thermo-button (°C)	Temperature measured upon receipt (°C)	Sample rece	
А	4.0	2.5	05/07/2011	15:00
В	4.5	6.3	06/07/2011	10:30
С	4.0	13.3	05/07/2011	14:15
D	3.5	1.0	05/07/2011	09:40
E	4.0	5.5	05/07/2011	11:00
F	5.0	4.0	05/07/2011	14:30
G	3.0	4.0	05/07/2011	11:00
Н	3.0	3.2	05/07/2011	08:00
I	4.5	5.8	05/07/2011	08:55
J	3.0	3.9	05/07/2011	11:30
K	3.0	5.7	05/07/2011	10:15
L	3.5	6.0	05/07/2011	10:00
М	2.5	6.3	05/07/2011	11:00
Ν	3.0	5.1	05/07/2011	16:00
0	3.0	4.3	05/07/2011	12:15
Р	3.5	4.8	05/07/2011	09:30
R	0.0	0.5	05/07/2011	10:00

Table 19 - Sample temperature upon receipt

2.3.2.3 Conclusion

No anomalies were observed during transport; the temperature measured during transport was between 0 and 5 °C. Laboratory J measured a temperature of 13.3 °C upon receipt, though the temperature recording indicates a temperature of 4.0 °C upon receipt.

Laboratory N stored its samples at 5 °C \pm 3 °C, but the recording indicates a storage temperature of between 8 and 10 °C. This laboratory was not included in the interpretation.

2.3.3 Analysis results

2.3.3.1 Enumeration of the mesophilic aerobic flora

The mesophilic aerobic flora on the matrix was enumerated on one sample as per the ISO 4833 method. The result varied between 180 CFU/g (laboratory N) and 890,000 CFU/g (laboratory A).

2.3.3.2 Results obtained by the expert laboratory

All inoculated samples gave a positive result; the reference method and alternative method results matched.

Level	Reference method	Alternative method
LO	0/8	0/8
L1	8/8	8/8
L2	8/8	8/8

2.3.3.3 Results obtained by the partner laboratories

A summary of results obtained by all laboratories is given below:

	Ref	Reference method		
	Laboratory	LO	L1	L2
Numerous level 0 contaminations	A	5/8	8/8	8/8
	В	0/8	8/8	8/8
	C	0/8	8/8	8/8
	D	0/8	8/8	8/8
	E	0/8	8/8	8/8
1	F	1/8	8/8	8/8
	G	0/8	8/8	8/8
	Н	0/8	8/8	8/8
	1	0/8	8/8	8/8
	J	0/8	8/8	8/8
	K	0/8	8/8	8/8
	L	0/8	8/8	8/8
	М	0/8	8/8	8/8
Samples stored betw een 8.5 and 10 °C	N	0/8	8/8	8/8
	0	0/8	8/8	8/8
	Р	0/8	8/8	8/8
	R	0/8	8/8	8/8

A	Alternative method				
Laboratory	L0	L1	L2		
А	6/8	8/8	8/8		
В	0/8	8/8	8/8		
С	0/8	8/8	8/8		
D	0/8	8/8	8/8		
E	0/8	8/8	8/8		
F	0/8	8/8	8/8		
G	0/8	8/8	8/8		
Н	0/8	8/8	8/8		
	0/8	8/8	8/8		
J	0/8	8/8	8/8		
K	0/8	8/8	8/8		
L	0/8	8/8	8/8		
М	0/8	8/8	8/8		
N	0/8	8/8	8/8		
0	0/8	8/8	8/8		
Р	0/8	8/8	8/8		
R	0/8	8/8	8/8		

15 laboratories obtained the expected results.

Laboratory A found 5 non-inoculated samples positive by the reference method (A3, A5, A15, A18 and A21) and 6 by the alternative method (A1, A5, A9, A13, A21 and A23).

Laboratory F confirmed the presence of *Salmonella* by the reference method in one non-inoculated sample (F9); the laboratory was unable to provide us with the strain for additional tests as it had discarded the plates.

Considering the particularly high number of contaminations obtained by laboratory A, it was decided to exclude this latter from the interpretation. Finally, the interpretation of results was performed on the following 15 laboratories: B, C, D, E, F, G, H, I, J, K, L, M, O, P and R.

2.3.4 Calculations

2.3.4.1 Calculation of percent specificity (%SP) and sensitivity (%SE) for both methods.

The percent specificity, for the L0 level and for each method, was calculated using the following equation:

$$SP = \left[1 - \left(\frac{FP}{N-1}\right) \times 100\%\right]$$

where:

N- = total number of all L0 tests FP = number of false positives

The percent sensitivity, for each contamination level and for each method, was calculated using the following equation:

$$SE = \frac{TP}{N+} \times 100\%$$

where:

TP = number of true positives

N+ = total number of all L1 or L2 tests

The results are presented in the following table:

	Reference method		Alternativ	e method
Level	SP/SE %	LCL %	SP/SE %	LCL %
L0 (SP)	99.2	98.0	100.0	98.0
L1 (SE)	100.0	98.0	100.0	98.0
L1 + L2 (SE)	100.0	98.0	100.0	98.0

2.3.4.2 Calculation of relative accuracy (AC)

The results for all levels are given below:

Table 20 - Result pairs for the alternative method and the reference method in the context of the inter-laboratory study

	Reference	e method	Tetel
Alternative method	+	-	Total
+	PA = 240	PD = 0	240
-	ND = 1	NA = 119	120
Total	N+ = 241	N-=119	N = 360

The relative accuracy (AC), expressed as a percentage, was calculated using $AC = \frac{(PA + NA)}{N} \times 100\%$

where: N = number of samples tested PA = number of positive agreements NA = number of negative agreements

The accuracy values of the alternative method relative to the reference method were calculated for each level and are given in the tables below:

	Level	AC %	LCL %
	LO	99.2	98.0
	L1	100.0	98.0
	L2	100.0	98.0
	L1 + L2	100.0	98.0
Ī	Total	99.7	98.0

2.3.4.3 Analysis of conflicting results

A conflicting result was observed for laboratory F; one non-inoculated sample was found by the reference method.

2.3.5 Interpretation

2.3.5.1 Comparison of relative accuracy, specificity and sensitivity values

Accuracy is the closeness of fit between the test result and the accepted reference value.

Relative specificity is defined as the degree to which the method is affected (or not) by the other components in a multi-component sample. It represents the method's ability to accurately measure or quantify a given analyte in a sample without interference from other non-target components, such as for example a matrix effect or background noise.

Relative sensitivity is defined as the alternative method's ability to detect two different amounts of analyte previously measured by the reference method, using a given matrix, over the entire measurement range. The variation in minimum quantity (increase in analyte x concentration) that gives a significant variation in measured signal (response y).

The values obtained in both parts of the validation study (method comparative study and inter-laboratory study) are given in table 21:

Table 21 - Comparison of values obtainedduring the inter-laboratory study with those obtained in the context ofthe method comparative study, for the alternative method

	Inter-laboratory	Method comparative study	
	study	Supplemented BPW incubated	Incubation
		16 h at 41.5 °C	24 h at 41.5 °C
Relative accuracy (AC)	99.7	89.7	90.0
Sensitivity (SE)	100.0	87.4	88.0
Specificity (SP)	100.0	91.6	91.0

2.3.5.2 Degree of agreement (DA)

The degree of agreement is the percent chance of obtaining the same result (i.e. both positive or both negative) with two identical samples analysed by the same laboratory, under conditions of repeatability (i.e. by a single operator using the same instruments and reagents, within the shortest possible lapse of time).

The degree of agreement is thus equivalent to repeatability for quantitative methods.

The various tables used to infer the degree of agreement are given in **Appendix 8**. The degrees of agreement for the reference method and the alternative method, for each level, are given below:

Level	Reference method	Alternative method
LO	97.8	100.0
L1	100.0	100.0
L2	100.0	100.0

2.3.5.3 Fit

The fit is the percent chance of obtaining the same result for two identical samples analysed by two different laboratories.

The fit is thus equivalent to reproducibility for quantitative methods.

Fit calculations are given in **Appendix 9**. The percent fit values for the reference and alternative methods, for each level, are given in the table below:

Level	Reference method	Alternative method
LO	98.3	100.0
L1	100.0	100.0
L2	100.0	100.0

2.3.5.4 Odds Ratio (COR)

The odds ratio was calculated using the following formula:

$$COR = \frac{\deg r \acute{e} d' accord x (100 - concordance)}{concordance x (100 - \deg r \acute{e} d' accord)}$$

The odds ratios obtained for the reference and alternative methods are given below:

Level	Reference method	Alternative method
LO	0.76	1.0
L1	1.0	1.0
L2	1.0	1.0

2.3.6 Conclusion

The variability of the alternative method (degree of agreement, fit, odds ratio) is identical to that of the reference method.

2.4 Conclusion

4 The conclusions of the method comparative study are as follows:

The IRIS Salmonella® method gives satisfactory relative accuracy, specificity and sensitivity results, whatever the enrichment incubation period, whether the medium (enrichment broth or chromogenic agar) is refrigerated or not.

The limits of detection of the alternative and reference methods are equivalent.

The IRIS Salmonella® method is specific and selective.

For a positive or negative sample, the IRIS *Salmonella®* method takes approximately 3 times less manipulation time than the reference method.

A negative result is obtained in 2 days by the IRIS Salmonella® method. A positive result is obtained in 2 days by the IRIS Salmonella® method versus 4 to 6 days for the reference method.

W The conclusions of the inter-laboratory study are as follows:

The variability of the alternative method (degree of agreement, fit, odds ratio) is identical to that of the reference method.


Appendix 2 - Protocols of the IRIS Salmonella® alternative method



For animal meal and cubes (sample size: 125 g)



For all categories (sample size: 25 g)



Appendix 3 – Artificial sample contamination (initial validation - 2011)

			Ino	culations			
No. Sample	Product	Stra Reference	ain Origin	Stress applied	Stress log TSYEA- XLD	Inoculation rate	Final global
2099	Cauliflower	Salmonella Virchow F276	Curry	-20 °C, 20 days	1.08	7-1-2-2-5 (3.4)	+
2100	Sliced vegetables	Salmonella Virchow F276	Curry	-20 °C, 20 days	1.08	7-1-2-2-5 (3.4)	+
2101	Salmon and scallop au gratin	Salmonella Anatum Ad1451	Dab fillet	4 °C, 20 days	0.42	9-1-6-6-4 (5.2)	+
2102	Fresh cod	Salmonella Anatum Ad1451	Dab fillet	4 °C, 20 days	0.42	9-1-6-6-4 (5.2)	+
2103	Shrimp	Salmonella Anatum Ad1451	Dab fillet	4 °C, 20 days	0.42	9-1-6-6-4 (5.2)	+
2104	Salt cod steak	Salmonella Anatum Ad1451	Dab fillet	4 °C, 20 days	0.42	9-1-6-6-4 (5.2)	+
2105	Scallops	Salmonella Seftenberg Ad355	Seafood cocktail	-20 °C, 20 days	1.52	7-5-6-2-1 (4.2)	+
2106	Fresh whiting	Salmonella Indiana Ad1409	Marinated fillets	-20 °C, 20 days	0.6	5-4-9-3-7 (5.6)	+
2107	Fresh cod	Salmonella indiana Ad1409	Marinated fillets	-20 °C, 20 days	0.6	5-4-9-3-7 (5.6)	+
2108	Seafood cocktail	Salmonella senftenberg Ad355	Seafood cocktail	-20 °C, 20 days	1.52	7-5-6-2-1 (4.2)	+
2116	Peeled cooked shrimp	Salmonella senftenberg Ad355	Seafood cocktail	-20 °C, 20 days	1.52	7-5-6-2-1 (4.2)	+
2117	Alaska pollack fillet	Salmonella senftenberg Ad355	Seafood cocktail	-20 °C, 20 days	1.52	7-5-6-2-1 (4.2)	+
2118	Albacore tuna	Salmonella indiana Ad1409	Marinated fillets	-20 °C, 20 days	0.6	5-4-9-3-7 (5.6)	+
2119	Alaska pollack	Salmonella indiana Ad1409	Marinated fillets	-20 °C, 20 days	0.6	5-4-9-3-7 (5.6)	+
2159	Egg cream	Salmonella typhimurium 206	Pasteurised liquid egg portion	19 at 4 °C then TT 15 min. at 56 °C	1.13	3-2-9-2-7 (4.6)	+
2160	Semolina pudding	Salmonella typhimurium 206	Pasteurised liquid egg portion	19 at 4 °C then TT 15 min. at 56 °C	1.13	3-2-9-2-7 (4.6)	+
2161	Leek quiche	Salmonella typhimurium 206	Pasteurised liquid egg portion	19 at 4 °C then TT 15 min. at 56 °C	1.13	3-2-9-2-7 (4.6)	+
2162	Vegetable quiche	Salmonella typhimurium 206	Pasteurised liquid egg portion	19 at 4 °C then TT 15 min. at 56 °C	1.13	3-2-9-2-7 (4.6)	+
2163	Fresh whole cream	Salmonella indiana Ad174	Fromage frais	TS+10% NaCl 8 days	0.66	3-5-6-4-4 (4.4)	+
2164	Gros lait	Salmonella indiana Ad174	Fromage frais	TS+10% NaCl 8 days	0.66	3-5-6-4-4 (4.4)	+
2165	Buttermilk	Salmonella indiana Ad174	Fromage frais	TS+10% NaCl 8 days	0.66	3-5-6-4-4 (4.4)	+
2166	Drinking yoghurt	Salmonella indiana Ad174	Fromage frais	TS+10% NaCl 8 days	0.66	3-5-6-4-4 (4.4)	+
2167	Fine mayonnaise with lemon	Salmonella enteritidis Ad 638	Mayonnaise	4 °C, 1 month	0.4	5-2-3-6-2 (3.6)	+
2168	Plain mayonnaise	Salmonella enteritidis Ad 638	Mayonnaise	4 °C, 1 month	0.4	5-2-3-6-2 (3.6)	+
2169	Fresh mayonnaise	Salmonella enteritidis Ad 638	Mayonnaise	4 °C, 1 month	0.4	5-2-3-6-2 (3.6)	+
2170	Pasta salad with salmon and mayonnaise	Salmonella enteritidis Ad 638	Mayonnaise	4 °C, 1 month	0.4	5-2-3-6-2 (3.6)	+
2171	Saint Félicien made with raw milk	Salmonella dublin Ad531	Raw milk cheese	TS+10% NaCl 1 month	0.6	2-2-5-3-5 (3.4)	-

			Ino	culations			
No. Sample	Product	Str. Reference	ain Origin	Stress applied	Stress log TSYEA- XLD	Inoculation rate	Final global
2172	Goat's cheese	Salmonella dublin Ad531	Raw milk cheese	TS+10% NaCl 1 month	0.6	2-2-5-3-5 (3.4)	+
2173	Brie de Meaux made with raw milk	Salmonella dublin Ad531	Raw milk cheese	TS+10% NaCl 1 month	0.6	2-2-5-3-5 (3.4)	+
2174	Reblochon made with raw milk	Salmonella dublin Ad531	Raw milk cheese	TS+10% NaCl 1 month	0.6	2-2-5-3-5 (3.4)	-
2175	Beaufort made with raw milk	Salmonella montevideo Ad912	Raw milk	4 °C, 8 days	0.6	3-2-3-7-5 (4.0)	+
2176	Gruyère made with raw milk	Salmonella montevideo Ad912	Raw milk	4 °C, 8 days	0.6	3-2-3-7-5 (4.0)	+
2177	Comté made with raw milk	Salmonella montevideo Ad912	Raw milk	4 °C, 8 days	0.6	3-2-3-7-5 (4.0)	+
2178	Laguiole made with raw milk	Salmonella montevideo Ad912	Raw milk	4 °C, 8 days	0.6	3-2-3-7-5 (4.0)	+
2187	VSM mixer wash water	Salmonella infantis Ad1404	Poultry environment	4°C, 63 days	0.96	5-3-7-1-3(3.8)	+
2188	Chicken B cooling water	Salmonella infantis Ad1404	Poultry environment	4°C, 63 days	0.96	5-3-7-1-3(3.8)	+
2191	Brandade	Salmonella derby Ad1093	Frozen pollack fillet	-20 °C, 1 month	0.41	7-2-3-1-3(3.2)	+
2192	Seafood and pollack duo with rice	Salmonella derby Ad1093	Frozen pollack fillet	-20 °C, 1 month	0.41	7-2-3-1-3(3.2)	+
2193	Cod fillets	Salmonella derby Ad1093	Frozen pollack fillet	-20 °C, 1 month	0.41	7-2-3-1-3(3.2)	+
2194	Alaska pollack fillets	Salmonella derby Ad1093	Frozen pollack fillet	-20 °C, 1 month	0.41	7-2-3-1-3(3.2)	+
2195	Bones for animals A	Salmonella livingstone F105	Animal feed	4°C, 52 days	0.94	6-3-4-3-6(4.4)	+
2196	Bones for animals B	Salmonella livingstone F105	Animal feed	4°C, 52 days	0.94	6-3-4-3-6(4.4)	+
2197	Poultry bones	Salmonella livingstone F105	Animal feed	4°C, 52 days	0.94	6-3-4-3-6(4.4)	+
2198	Offcuts for dogs	Salmonella livingstone F105	Animal feed	4°C, 52 days	0.94	6-3-4-3-6(4.4)	+
2199	Bones for animals A	Salmonella agona AOOV038	Animal feed	4°C, 52 days	1.06	5-6-7-1-5(4.8)	+
2200	Bones for animals B	Salmonella agona AOOV038	Animal feed	4°C, 52 days	1.06	5-6-7-1-5(4.8)	+
2202	Offcuts for dogs	Salmonella agona AOOV038	Animal feed	4°C, 52 days	1.06	5-6-7-1-5(4.8)	+
2203	Tiramisu Italian recipe	Salmonella typhimurium Ad1333	Tiramisu	4°C, 38 days	0.45	4-4-8-2-7(5.0)	+
2204	Tiramisu	Salmonella typhimurium Ad1333	Tiramisu	4°C, 38 days	0.45	4-4-8-2-7(5.0)	+
2207	Mayonnaise with mustard	Salmonella mbandaka Ad914	Mayonnaise	pH 4 13 days	0.49	3-2-4-6-6(4.2)	+
2208	Fine mayonnaise	Salmonella mbandaka Ad914	Mayonnaise	pH 4 13 days	0.49	3-2-4-6-6(4.2)	+
2209	Mayonnaise with olive oil	Salmonella mbandaka Ad914	Mayonnaise	pH 4 13 days	0.49	3-2-4-6-6(4.2)	+
2210	Mayonnaise with mustard old style	Salmonella mbandaka Ad914	Mayonnaise	pH 4 13 days	0.49	3-2-4-6-6(4.2)	+
2329	Raw milk	Salmonella montevideo Ad912	Raw milk	4°C, 21 days	0.54	3-2-1-2-5(2.6)	+
2330	Raw milk	Salmonella montevideo Ad912	Raw milk	4°C, 21 days	0.54	3-2-1-2-5(2.6)	+
2331	Raw milk	Salmonella montevideo Ad912	Raw milk	4°C, 21 days	0.54	3-2-1-2-5(2.6)	+
2332	Raw milk	Salmonella montevideo Ad912	Raw milk	4°C, 21 days	0.54	3-2-1-2-5(2.6)	+
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			Ino	culations			
No. Sample	Product	Stra Reference	ain Origin	Stress applied	Stress log TSYEA- XLD	Inoculation rate	Final global
2343	Bacon	Salmonella enteritidis 2532	Cooked ham	TT 56 °C 15 min.	2.56	3-0-0-5-3(2.2)	+
2344	Bacon	Salmonella enteritidis 2532	Cooked ham	TT 56 °C 15 min.	2.56	3-0-0-5-3(2.2)	+
2345	Whole powdered egg	Salmonella arizonae CIP 5526	Egg powder	TT 56 °C 15 min.	>1.57	1-1-0-1-0(0.6)	-
2346	Whole powdered egg	Salmonella arizonae CIP 5526	Egg powder	TT 56 °C 15 min.	>1.57	1-1-0-1-0(0.6)	-
2347	Whole powdered egg	Salmonella arizonae CIP 5526	Egg powder	TT 56 °C 15 min.	>1.57	1-1-0-1-0(0.6)	-
2348	Whole powdered egg	Salmonella arizonae CIP 5526	Egg powder	TT 56 °C 15 min.	>1.57	1-1-0-1-0(0.6)	-
2349	Powdered egg white	Salmonella livingstone E1	Powdered egg white	TT 56 °C 15 min.	2.36	2-0-5-0-2(1.8)	+
2350	Powdered egg white	Salmonella livingstone E1	Powdered egg white	TT 56 °C 15 min.	2.36	2-0-5-0-2(1.8)	+
2351	Powdered egg white	Salmonella livingstone E1	Powdered egg white	TT 56 °C 15 min.	2.36	2-0-5-0-2(1.8)	+
2352	Powdered egg white	Salmonella livingstone E1	Powdered egg white	TT 56 °C 15 min.	2.36	2-0-5-0-2(1.8)	+
2355	Coconut ice-cream	Salmonella montevideo 606	Raw milk	-20°C	0.33	4-7-9-3-9(6.4)	+
2356	Iced nougat	Salmonella montevideo 606	Raw milk	-20°C	0.33	4-7-9-3-9(6.4)	+
2357	Vanilla ice-cream	Salmonella montevideo 606	Raw milk	-20°C	0.33	4-7-9-3-9(6.4)	+
2358	Nougat ice-cream	Salmonella montevideo 606	Raw milk	-20°C	0.33	4-7-9-3-9(6.4)	+
2359	Dairy dust T1 OG	Salmonella tennessee A00E006	Dairy dust	TT 56 °C 15 min.	2.9	0-1-0-1-0(0.4)	-
2360	Dairy dust T2 12B	Salmonella tennessee A00E006	Dairy dust	TT 56 °C 15 min.	2.9	0-1-0-1-0(0.4)	-
2361	Dairy dust T2 OD	Salmonella tennessee A00E006	Dairy dust	TT 56 °C 15 min.	2.9	0-1-0-1-0(0.4)	+
2362	Dairy dust T2 7A	Salmonella tennessee A00E006	Dairy dust	TT 56 °C 15 min.	2.9	0-1-0-1-0(0.4)	-
2603	Seafood and rice duo	Salmonella braendenburg Ad351	Seafood cocktail	TT 56 °C 15 min.	>1.85	0-1-2-1-0(0.6)	+
2604	Brandade	Salmonella braendenburg Ad351	Seafood cocktail	TT 56 °C 15 min.	>1.85	0-1-2-1-0(0.6)	+
2606	Salmon and scallop au gratin	Salmonella braendenburg Ad351	Seafood cocktail	TT 56 °C 15 min.	>1.85	0-1-2-1-0(0.6)	+
2607	Cat food	Salmonella livingstone F105	Animal feed	TT 56 °C 15 min.	>2.19	0-0-1-0-0(0.2)	+
2608	Poultry-flavoured mash	Salmonella livingstone F105	Animal feed	TT 56 °C 15 min.	>2.19	0-0-1-0-0(0.2)	+
2609	Fish-flavoured mash	Salmonella livingstone F105	Animal feed	TT 56 °C 15 min.	>2.19	0-0-1-0-0(0.2)	+
2610	Beef-flavoured mash	Salmonella livingstone F105	Animal feed	TT 56 °C 15 min.	>2.19	0-0-1-0-0(0.2)	+
2706	Raw milk T33	Salmonella diarizonae Ad1280	Raw ewe's milk	4°C, 5 days	1.51	6-6-4-5-4(5.0)	+
2707	Raw milk T32	Salmonella diarizonae Ad1280	Raw ewe's milk	4°C, 5 days	1.51	6-6-4-5-4(5.0)	+
2708	Raw milk T36	Salmonella montevideo 606	raw milk	4°C, 5 days	0.32	5-5-5-1-3(4.2)	+
2709	Reblochon made with raw milk	Salmonella infantis F401B	Cheese	NaCl 10% 4 days	0.63	0-3-2-1-2(1.6)	+
2710	Saint Félicien made with raw milk	Salmonella infantis F401B	Cheese	NaCl 10% 4 days	0.63	0-3-2-1-2(1.6)	+
2711	Bethmale made with raw milk	Salmonella infantis F401B	Cheese	NaCl 10% 4 days	0.63	0-3-2-1-2(1.6)	+
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	ry report (Version 0) monella						

			Ino	culations			
No.		Stra	ain		Stress log		Final
Sample	Product	Reference	Origin	Stress applied	TSYEA- XLD	Inoculation rate	global
2712	Eggplant gratin	Salmonella london A00P085	Egg roll	-20 °C, 4 days	0.6	7-7-4-3-8(5.8)	+
2713	Cabbage gratin	Salmonella london A00P085	Egg roll	-20 °C, 4 days	0.6	7-7-4-3-8(5.8)	+
2714	Stuffed tomato style gratin	Salmonella london A00P085	Egg roll	-20 °C, 4 days	0.6	7-7-4-3-8(5.8)	+
2715	Fish and rice with vegetables	Salmonella london A00P085	Egg roll	-20 °C, 4 days	0.6	7-7-4-3-8(5.8)	+
2716	Frozen ratatouille vegetables	Salmonella virchow F276	curry	-20 °C, 4 days	0.41	2-6-4-3-4(3.8)	+
2717	Southern stir-fry	Salmonella virchow F276	curry	-20 °C, 4 days	0.41	2-6-4-3-4(3.8)	+
2718	Parisian stir-fry	Salmonella kottbus 3	Environment	-20 °C, 4 days	0.54	4-3-4-3-4(3.6)	+
2719	Vegetable and mushroom stir-fry	Salmonella kottbus 3	Environment	-20 °C, 4 days	0.54	4-3-4-3-4(3.6)	+
2720	Frozen ratatouille vegetables	Salmonella kottbus 3	Environment	-20 °C, 4 days	0.54	4-3-4-3-4(3.6)	+
2721	Southern stir-fry	Salmonella kottbus 3	Environment	-20 °C, 4 days	0.54	4-3-4-3-4(3.6)	+
2735	De-nerving table rinse water	Salmonella typhimurium 528	brine	TT 56 °C 15 min.	3.22	2-2-3-1-4(2.4)	+
2736	De-nerving table wash water	Salmonella typhimurium 528	brine	TT 56 °C 15 min.	3.22	2-2-3-1-4(2.4)	+
2737	Bowl system rinse water	Salmonella typhimurium Ad1070	Pig abattoir environment	TT 56 °C 15 min.	0.91	1-0-3-0-0(0.8)	+
2738	Bowl machine wash water	Salmonella typhimurium Ad1070	Pig abattoir environment	TT 56 °C 15 min.	0.91	1-0-3-0-0(0.8)	+
2739	Scalding tank process water	Salmonella agona Ad1306	Poultry environment	TT 56 °C 15 min.	>2.58	2-3-3-2-1(2.2)	+
2740	Plucker run-off process water	Salmonella agona Ad1306	Poultry environment	TT 56 °C 15 min.	>2.58	2-3-3-2-1(2.2)	-
2741	Polychiller outfeed rinse water	Salmonella senftenberg 1	Poultry environment	TT 56 °C 15 min.	0.97	8-11-7-17-10(10.6)	+
2742	Spinchiller process water	Salmonella senftenberg 1	Poultry environment	TT 56 °C 15 min.	0.97	8-11-7-17-10(10.6)	+
2743	Saint Marcellin	Salmonella dublin Ad1336	Raw milk cheese	10% NaCl 4 days	0.58	6-5-6-4-3(4.8)	+
2744	Semi-skim powdered milk	Salmonella typhimurium 4	Powdered milk	TT 56 °C 15 min.	2.4	0-0-0-1-0(0.2)	+
2745	Whole powdered milk	Salmonella typhimurium 4	Powdered milk	TT 56 °C 15 min.	2.4	0-0-0-1-0(0.2)	+
2746	Skimmed powdered milk	Salmonella anatum Ad298	Powdered milk	TT 56 °C 15 min.	2.26	1-1-1-2-0(1.0)	+
2747	Pasteurised whole liquid egg portion	Salmonella infantis 14	Liquid egg portions	TT 56 °C 15 min.	2.4	1-1-1-2-1(1.2)	+
2748	Pasteurised whole liquid egg portion	Salmonella infantis 14	Liquid egg portions	TT 56 °C 15 min.	2.4	1-1-1-2-1(1.2)	+
2749	Pasteurised whole liquid egg portion	Salmonella infantis 14	Liquid egg portions	TT 56 °C 15 min.	2.4	1-1-1-2-1(1.2)	+
2750	Pasteurised liquid egg yoke portion	Salmonella typhimurium 776	Liquid egg portions	TT 56 °C 15 min.	3.1	3-2-1-3-1(2.0)	+
2751	Pasteurised liquid egg yoke portion	Salmonella typhimurium 776	Liquid egg portions	TT 56 °C 15 min.	3.1	3-2-1-3-1(2.0)	+
2752	Flan preparation	Salmonella enteritidis 10	Powdered egg white	TT 56 °C 15 min.	2.46	1-0-5-2-1(1.8)	+
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			Ino	culations			
No.	Product	St	ain		Stress log	Inoculation	Final
Sample	Flound	Reference	Origin	Stress applied	TSYEA- XLD	rate	global
2753	Custard preparation	Salmonella enteritidis 10	Powdered egg white	TT 56 °C 15 min.	2.46	1-0-5-2-1(1.8)	+
2754	Crème brûlée preparation	Salmonella enteritidis 10	Powdered egg white	TT 56 °C 15 min.	2.46	1-0-5-2-1(1.8)	+
2791	Powder for custard cream	Salmonella typhimurium 776	Liquid egg portions	TT 56 °C 15 min.	1.97	1-1-0-1-0(0.6)	+
2792	Egg cream powder	Salmonella typhimurium 776	Liquid egg portions	TT 56 °C 15 min.	1.97	1-1-0-1-0(0.6)	+
2793	Swab	Salmonella typhimurium Ad1070	Pig abattoir environment	TT 56 °C 15 min.	2.03	1-0-1-1-0(0.6)	+
2794	Swab	Salmonella typhimurium Ad1070	Pig abattoir environment	TT 56 °C 15 min.	2.03	1-0-1-1-0(0.6)	-
2795	Swab	Salmonella agona Ad1306	Poultry environment	TT 56 °C 15 min.	1.58	0-2-0-0-3(1.0)	+
2796	Swab	Salmonella agona Ad1306	Poultry environment	TT 56 °C 15 min.	1.58	0-2-0-0-3(1.0)	-
2797	Rape, sunflower and soya cake	Salmonella infantis 179	Animal feed	TT 56 °C 15 min.	1.85	1-0-2-1-2(1.2)	+
2798	Pellets for pigs	Salmonella derby SD43	Pig abattoir environment	pH4	0.48	1-4-5-2-2(2.8)	-
2799	Pellets for calves	Salmonella infantis 179	Animal feed	TT 56 °C 15 min.	1.85	1-0-2-1-2(1.2)	-
2800	Pellets for pigs	Salmonella derby SD43	Pig abattoir environment	pH4	0.48	1-4-5-2-2(2.8)	-
2801	Soya cakes for calves	Salmonella braenderup F286	Animal feed	TT 56 °C 15 min.	1.59	0-0-2-1-0(0.6)	+
2802	Wheat meal for pigs	Salmonella derby SD43	Pig abattoir environment	pH4	0.48	1-4-5-2-2(2.8)	-
2803	Meal for poultry	Salmonella blockley Ad923	Environment	pH4	0.61	2-1-1-5-2(2.2)	-
2804	Meal for poultry	Salmonella derby SD43	Pig abattoir environment	pH4	0.48	1-4-5-2-2(2.8)	-
2805	Soya cakes for calves	Salmonella cerro Ad689	Animal feed	TT 56 °C 15 min.	1.84	3-0-3-3-1(2.0)	+
2806	Rape, sunflower and soya cake	Salmonella braenderup F286	Animal feed	TT 56 °C 15 min.	1.59	0-0-2-1-0(0.6)	-
2807	Rape, sunflower and soya cake	Salmonella cerro Ad689	Animal feed	TT 56 °C 15 min.	1.84	3-0-3-3-1(2.0)	-
2808	Meal for poultry	Salmonella cerro Ad689	Animal feed	TT 56 °C 15 min.	1.84	3-0-3-3-1(2.0)	+
2809	Pellets for pigs	Salmonella infantis 179	Animal feed	TT 56 °C 15 min.	1.85	1-0-2-1-2(1.2)	-
2810	Pellets for pigs	Salmonella braenderup F286	Animal feed	TT 56 °C 15 min.	1.59	0-0-2-1-0(0.6)	-
2811	Pellets for pigs	Salmonella braenderup F286	Animal feed	TT 56 °C 15 min.	1.59	0-0-2-1-0(0.6)	-
2812	Pellets for pigs	Salmonella blockley Ad923	Environment	pH4	0.61	2-1-1-5-2(2.2)	-
2813	Wheat meal for pigs	Salmonella cerro Ad689	Animal feed	TT 56 °C 15 min.	1.84	3-0-3-3-1(2.0)	+
2814	Wheat meal for pigs	Salmonella infantis 179	Animal feed	TT 56 °C 15 min.	1.85	1-0-2-1-2(1.2)	+
2821	Wheat meal for pigs	Salmonella derby SD43	Pig abattoir environment	TT 56 °C 15 min.	1.61	1-2-1-4-1(1.8)	+
2822	Potato cake and pulp	Salmonella havana Ad930	Environment	TT 56 °C 15 min.	1.82	2-2-1-3-2(2.0)	+
2823	Mix cake	Salmonella derby SD43	Pig abattoir environment	TT 56 °C 15 min.		1-2-1-4-1(1.8)	+
2824	Pellets for pigs	Salmonella derby SD43	Pig abattoir environment	TT 56 °C 15 min.		1-2-1-4-1(1.8)	1
2825	Barley for pigs	Salmonella blockley Ad923	Environment	TT 56 °C 15 min.	>1.62	1-1-2-0-2(1.8)	-
ummai	réveloppement ry report (Version 0) <i>monella</i>		44/98			06 July 20)15

			Ino	culations			
No. Sample	Product	Stra Reference	ain Origin	Stress applied	Stress log TSYEA- XLD	Inoculation rate	Final global
2826	Pellets for calves	Salmonella blockley Ad923	Salmonella blockley Ad923	Salmonella blockley Ad923	>1.62	1-1-2-0-2(1.8)	+
2827	Pellets for pigs	Salmonella havana Ad930	Environment	TT 56 °C 15 min.	1.82	2-2-1-3-2(2.0)	+
2828	Dried poultry protein	Salmonella bovismorbificans	Particulates	TT 56 °C 15 min.	>0.9	1-3-4-2-4(2.8)	+
2829	Dried poultry protein	Salmonella havana Ad930	Environment	TT 56 °C 15 min.	1.82	2-2-1-3-2(2.0)	+
2830	Dried poultry protein	Salmonella derby SD43	Pig abattoir environment	TT 56 °C 15 min.		1-2-1-4-1(1.8)	+
2831	Bowl wash water	Salmonella typhimurium Ad1070	Pig abattoir environment	pH4	0.41	8-13-14-14-16(13.0)	+
2832	Table wash water	Salmonella agona Ad1306	Poultry environment	pH4	0.41	7-10-4-11-9(8.2)	+
2833	Drain water	Salmonella senftenberg 1	Poultry environment	pH4	0.57	12-10-10-11-4(9.4)	+
2834	Washroom drain water	Salmonella senftenberg 1	Poultry environment	pH4	0.57	12-10-10-11-4(9.4)	+
2835	TA14 workshop sink drain water	Salmonella agona Ad1306	Poultry environment	pH4	0.41	7-10-4-11-9(8.2)	+
2836	TA8 workshop sink drain water	Salmonella typhimurium Ad1070	Pig abattoir environment	pH4	0.41	8-13-14-14-16(13.0)	+
2837	Process water (scalding tank)	Salmonella blockley Ad923	Salmonella blockley Ad923	Salmonella blockley Ad923	>1.62	1-1-2-0-2(1.8)	+
2838	Plucker process water	Salmonella havana Ad930	Environment	TT 56 °C 15 min.	1.82	2-2-1-3-2(2.0)	+
2839	Polychiller cooling water	Salmonella bovismorbificans	Particulates	TT 56 °C 15 min.	>0.9	1-3-4-2-4(2.8)	+
2840	Necks cooling water	Salmonella bovismorbificans	Particulates	TT 56 °C 15 min.	>0.9	1-3-4-2-4(2.8)	+
2841	Cooling water	Salmonella blockley Ad923	Salmonella blockley Ad923	Salmonella blockley Ad923	>1.62	1-1-2-0-2(1.8)	+
2842	Cooling water	Salmonella bovismorbificans	Particulates	TT 56 °C 15 min.	>0.9	1-3-4-2-4(2.8)	+
2843	Swab - truck after disinfection	Salmonella typhimurium Ad1070	Pig abattoir environment	pH4	0.41	8-13-14-14-16(13.0)	+
2844	Swab - damp brushing machine	Salmonella senftenberg 1	Poultry environment	pH4	0.57	12-10-10-11-4(9.4)	+
2845	Swab - cutting table	Salmonella typhimurium Ad1070	Pig abattoir environment	pH4	0.41	8-13-14-14-16(13.0)	+
2846	Swab - TA8 preparation table	Salmonella agona Ad1306	Poultry environment	pH4	0.41	7-10-4-11-9(8.2)	+
2847	Swab - TA16 preparation table	Salmonella agona Ad1306	Poultry environment	pH4	0.41	7-10-4-11-9(8.2)	+
2848	Swab - dish washing tank	Salmonella senftenberg 1	Poultry environment	pH4	0.57	12-10-10-11-4(9.4)	+

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Appendix 4 - Relative accuracy: raw results (Initial validation - 2011)

Bold face: contaminated products ni: non-isolated colony

+p: target organism in pure culture +m: target organism in minority NC: non-characteristic on nutrient agar +/-: questionable colony +M: target organism in majority +st: sterile plate

													ME	at pro	DUCTS											
		ISO	6579 re	ference	e meth	od•										I	RIS Salmone	lla met	hod							
			CHaracterist	c colonies								Suppler	mented E	3PW incul	bated for 1	6 h at 41	.5 °C					Supple	mented	BPW incub	ated for	24 h at 41.
No. Sample	Product	R\	/S	MK	ΓTn	Final				IRIS -F	Reading a	fter 24 h at 3	37 °C				IRIS a	fter storag	e in BPW f	or 72 h at 4	1°C		IRIS	-Reading after	er 24 h at i	37 °C
Sample		XLD	COMPASS Salmonella	XLD	COMPASS Salmonella	result	Characteristic colonies	Latex OXOID	Latex CONFIRM Salmonella	Tests of the reference method	Final result OXOID	Final result CONFIRM Salmonella	Final tests of the reference method	Agreement latex OXOID	Agreement Latex CONFIRM Salmonella	Agreement tests of the method	Characteristic colonies	Latex OXOID	Latex CONFIRM Salmonella	Final	Agreement	Characteristic colonies	Latex OXOID	Latex CONFIRM Salmonella	Final final OXOID	Final final CONFIRM Salmonella
1454	Lean pork	+m ni/+ (NC)	-	+ni/+ (NC)	-	-	-				-	-	-	=	=	-						-			-	-
1455	Stuffing	-	-	-	-	- ÷	-					-	-	=	=	=		4				-			-	-
1456	Pork sausage	-	-	-	-	-	+1/2	+	+	+	+	+	+	PD	PD	PD	+m	+	+	+	PD	+m	+	+	+	+
1457	Chorizo	-	-	-	-		-				-			=	-	-						-			-	-
1458	Provençale style pork ribs	+M	+M	+M	+M	+	+M	+	+	+	+	t	÷	=	=	-	+m	+	+	+	=	+M	+	+	+	+
1459	Lean pork	-	-	-	-	-	-				-	-		=	Ŧ	=						-			-	-
1460	Pork fillet	-	-	-	-		-				-	-	-	=	=	=						-			-	-
1461	Ground chicken meat	+m	+m	+1/2	+1/2	+	+1colni/+	+	+	+	+	+	+	=	=	=	-	1	1	1	ND	+m	+	+	+	+
1462	Chipolatas	-	-	-	-		-				-	-	-	=	=	=						-			-	-
1463	Pork tongue	+1col	-	-	-	+	-					÷	-	ND	ND	ND	-	1	1	1	ND	-			-	-
1464	Pig's caul	+M	+M	+M	+M	+	+M	+	+	+	+	+	+	=	=	=	+M	+	+	+	=	+M	+	+	+	+
1465	Pork rind	-	-	-	-	-	-					-	-	=	=	=						-			-	-
1466	Pork tongue	-	-	-	-	-					·	-	-	=	=	=						-			-	-
1467	Minced pork meat	-	-	-	-	-	-					2		=	=	=						+/-ni/-			-	-
1468	Shoulder fat	-	-	-	-	-	-					-	-	=	=	=						-			-	-
1469	Pork trimming	-	-	-		-					-	-	-	=	=	=						-			-	-
1470	Pig's caul	-	-	-	-	-	-				-	-	-	=	=	=			1			-		1	-	-
1471	Pork fillet	-	-	-	-	•	-				-	-	-	=	=	=						-			1.1	-
1472	Pork	-	+/-(NC)	-	-		-				-	-	-	=	=	=	-	/	1	/	=	-			-	-

													MEA	T PRO	DUCTS											
		ISO	6579 re	ferenc	e meth	od+										I	RIS Salmonel	la met	hod							
			CHaracterist	ic colonies								Supplen	nented B	PW incul	bated for 1	6 h at 41	.5 °C					Suppler	mented I	BPW incub	ated for	24 h at 41.
No.	Product	R	VS	MK	TTn	Final				IRIS -F	Reading a	fter 24 h at 3	7 °C				IRIS af	ter storag	e in BPW f	or 72 h at	4 °C		IRIS ·	Reading after	er 24 h at 3	37 °C
Sample		XLD	COMPASS Salmonella	XLD	COMPASS Salmonella	result	Characteristic colonies	Latex OXOID	Latex CONFIRM Salmonella	Tests of the reference method	Final result OXOID	Final result CONFIRM Salmonella	Final tests of the reference method	Agreement latex OXOID	Agreement Latex CONFIRM Salmonella	Agreement tests of the method	Characteristic colonies	Latex OXOID	Latex CONFIRM Salmonella	Final	Agreement	Characteristic colonies	Latex OXOID	Latex CONFIRM Salmonella	Final final OXOID	Final final CONFIRM Salmonella
	tongue															_										
1473	Pork fillet	-	-	-	-	-	-				-	-	-	=	=							+/-ni/-	1	1	-	-
1474	Red meat	-	-	-	-	-	- .M				-	-	-	=	=	=					<u> </u>	-			-	-
1475 1476	Red meat	+/-m	+m	+m -	+m	+	+M -	+	+	+	+	+	+	=	=	=	+M	+	+	+	=	+M	+	+	+	+
1470	Pig's caul Provençale	-	-	-	-	-	-				-	-	-		=	=						-			-	-
1477	style pork ribs	+1/2	+M	+M	+M	+	+M	+	+	+	+	+	+	=	≡	-	+M	÷	+	+	=	+M	+	+	+	+
1754	Hare meat	-	-	-	-	-	-				-	-		=	=	=						-	1	/	-	-
1755	Ground turkey meat	+1/2	+1/2	+M	+M	+	+M	+	+	+	+	+	+	=	=	=	+M	+	+	+	=	+M	+	+	+	+
1756	Ground turkey loin	-	-	-	-	-	-				-			=	Ξ	=						-			-	-
1757	Marinated fillet (poultry)	-	-	-	-	-	-).	=	=	=						-				-
1758	Coarse chicken meat	-	-	-	-	-	-							=	=	=						-			-	-
1759	Chicken meat	-	-	-	-	-	-				-		·	Ξ	=	=						+/-1col ni/-	1	1	-	-
1760	Ground turkey meat	+m	+m	+M	+M	+	+M	÷	÷	+	+	+	+	=	=	=	+M	+	+	+	=	+M	+	+	+	+
1761	Ground white meat	+m	+m	+M	+1/2	+	+m	÷	+	÷	+	+	+	=	=	=	+m	+	+	+	=	+m	+	+	+	+
1762	Ground lean beef	+1col	+m	+1/2ni/+	+m	+	+M	+	+	Ŧ	*	+	+	=	=	=	+M	+	+	+	=	+M	+	+	+	+
1763	VS	+m	+m	+m	+m	+	-						-	ND	ND	ND	-			-	ND	-			-	-
1764	Ground chicken meat	+m ni/+	+m ni/+	+m ni/+	+m	+					-	-	-	ND	ND	ND	-			-	ND	-			-	-
1765	Veal délice with shallots	-	-	- (-				-	-	-	=	=	=						-			-	-
1766	Duckling stuffed with mushrooms	+1/2	+m	+M	+M	+	-				-	-	-	ND	ND	ND	-			-	ND	-			-	-
1767	Chicken fillet skin	-	-	-	-	•	-				-	-	-	=	=	=						-			-	-
1768	Ground chicken meat	-	-	1/2 ni/+	+m	÷	+m	÷	+	+	+	+	+	=	=	=	+m	+	+	+	=	+m	+	+	+	+
1769	VS2	-	-	-	-	-	-				-	-	-	=	=	=						-			-	-
Sum	A Dévelo mary repo Salmone	ort (Vers		_	_				_	_		47/98	3				_		_		_	_	06 J	luly 201	5	

													MEA	T PRO	DUCTS											
		ISO	6579 re	ferenc	e meth	od+										I	RIS Salmone	ella met	hod							
			CHaracterist									Suppler	nented B	PW incut	pated for 1	6 h at 41	.5 °C					Suppler	nented [BPW incub	ated for	24 h at 41.
No.	Product	R	VS	MK	TTn					IRIS -F	Reading a	fter 24 h at 3						after storag	ge in BPW fo	or 72 h at 4	1 °C			-Reading afte		
Sample		XLD	COMPASS Salmonella	XLD	COMPASS Salmonella	Final result	Characteristic colonies	Latex OXOID	Latex CONFIRM Salmonella	Tests of the reference method	Final result OXOID	Final result CONFIRM Salmonella	Final tests of the reference	Agreement latex OXOID	Agreement Latex CONFIRM Salmonella	Agreement tests of the method	Characteristic colonies	Latex OXOID	Latex CONFIRM Salmónella		Agreement	Characteristic colonies	Latex OXOID	Latex CONFIRM Salmonella	Final final OXOID	Final final CONFIRM Salmonella
	Ground									monou		Calification	method		Carnonona	interiod					-					California
1770	chicken meat	+m ni∕+	+1col ni/+	+/-ni/+	+m ni/+	+	-				-	-	-	ND	ND	ND	+1col	+	+	•	=	+m	+	+	+	+
1771	Minced beef	+M	+m	+M	+M	+	+M	+	+ weak	+	+	+	+	=	=	=	+M	+	÷	·	=	+M	+	+	+	+
1772	Minced pork meat	+M	+m	+m	+m	+	+M	+	+ weak	+	+	+	+	=	=	-	+M	+	+	+	=	+M	+	+	+	+
1773	Minced beef, 5% fat	-	-	-	-	-	+p	+	+	+	+	+	+	PD	PD	PD	+p	÷	+	+	PD	+p	+	+	+	+
1774	Minced beef, 5% fat	+m	+m	+M	+M	+	+p	+	+	+	+	÷	+	-	н	-	+p	+	+	+	=	+p	+	+	+	+
1775	Minced beef	-	-	-	-	-	-						·	"	1	-						-			-	-
1776	Minced heifer meat	-	-	-	-	-	+p	+	+	+	+	+	+	PD	PD	PD	+p	+	+	+	PD	+p	+	+	+	+
1777	Minced beef, 5% fat	-	-	-	-	-	+p	+	+	Ŧ	÷	÷	+	PD	PD	PD	+p	+	+	+	PD	+p	+	+	+	+
2211	Merguez	-	-	-	-	-	-					-	·	=	=	=						-	1	1	-	-
2212	Dried sausage	+1/2	+1/2	+M	+M	+	-				Y	-	•	ND	ND	ND	-				ND	-	/	1	-	-
2213	sausage	-	-	-	-	-	-					-	-	=	=	=						-	/	1	-	-
2214	Chipolatas with herbs	-	-	-	-	-							-	=	=	=						-	1	1	-	-
2215	Sausage meat	-	-	-	-	-	+ ,	+	+	+	+	+	+	PD	PD	PD	+	+	+	+	PD	+	+	+	+	+
2216	Chipolatas	-	-	-	-		+	+	+	+	+	+	+	PD	PD	PD	+	+	+	+	PD	+	+	+	+	+
2217	Sausage	-	-	-	-	-				*		-	-	=	=	=						-	/	1	-	-
2218	Dried sausage	-	-	-	•		-st					-	-	=	=	=						-	1	1	-	-
2219	Toulouse sausage	+m	+m	+1/2	+1/2	+	+	+	÷	+	+	+	+	=	=	=	+	+	+	+	=	+	+	+	+	+
2220	Tomato stuffing	-	-	-	-	•						-	-	=	=	=						-	/	1	-	-
2221	Turkey cutlet	+m	+m	+M	+M	+	+1col ni/+	Ŧ	+	+	+	+	+	=	=	=	+ 1col	+	+	+	=	+ni/+	+	+	+	+

SOLABIA

													MEA	AT PRO	DUCTS											
		ISO	6579 re	ferenc	e meth	od+										I	RIS Salmonell	a metho	od							
No.			CHaracterist	tic colonies								Suppler	mented B	PW incut	pated for 1	6 h at 41						Suppler				24 h at 41.
	Product	R	VS	MK	TTn	Final				IRIS -R	Reading af	ter 24 h at 3	37 °C				IRIS after	er storage	in BPW fo	r 72 h at 4	°C		IRIS -	Reading after	er 24 h at	37 °C
Sample		XLD	COMPASS Salmonella	XLD	COMPASS Salmonella	result	Characteristic colonies	Latex OXOID	Latex CONFIRM Salmonella	Tests of the reference method	Final result OXOID	Final result CONFIRM Salmonella	Final tests of the reference method	Agreement latex OXOID	Agreement Latex CONFIRM Salmonella	Agreement tests of the method	Characteristic colonies	Latex OXOID	Latex CONFIRM Salmonella	Final	Agreement	Characteristic colonies	Latex OXOID	Latex CONFIRM Salmonella	Final final OXOID	Final final CONFIRM Salmonella
2222	Ground chicken meat	+m	+4col	+M	+1/2	+	-				-	-		ND	ND	ND					ND	-	/	/	-	-
2223	Plain poultry skewer	-	-	-	-	-	÷	+	+	+	+	+	+	PD	PD	PD		+	+	+	PD	+	+	+	+	+
2297	Pool of sausage	+m	+m	+1/2	+m	+	-				-	-	-	ND	ND	ND	·			-	ND	-			-	-
2298	Chipolatas	-	-	-	-	-	-				-	-	-	=	=	=						-			-	-
2299	Sausage meat	+M	+m	+M	+M	+	-				-	-		ND	ND	ND				-	ND	-			-	-
2300	Ground chicken meat	+/-m	+1colni/+	+1/2	+m	+	÷	+	+	+	+	+	÷	=	=	н		+	+	+	=	+	+	+	+	+
2301	Ground turkey meat	-	-	+/-m (Hafnia alvei)	-	-	-				-			н	Ξ	=	-			-	н	-			-	-
2343	Bacon	+	+	+	+	+	+p	+	+	+	+	+	+	=	=	=	+p	+	+	+	=	+M	+	+	+	+
2344	Bacon	+	+	+	+	+	+p	+	+	+	+	+	+	=	=	=	+p	+	+	+	=	+M	+	+	+	+
2593	Turkey cutlet	-	-	-	-	-	-				-	·		п	=	=									-	-

ADRIA Développement Summary report (Version 0) IRIS Salmonella 06 July 2015

SOLABIA

Bold face: contaminated products ni: non-isolated colony

+p: target organism in pure culture +m: target organism in minority NC: non-characteristic on nutrient agar +/-; questionable colony

+M: target organism in majority +st: ster

+st: sterile plate

												DAIRY	PRODI	JCTS													
		IS	O 6579 r	eference	method *										IR	IS Saln	nonella r	nethod									
			Characterist	tic colonies							Sup	plemented	BPW in	cubated	for 16 h a	t 41.5 °C)					Suppler	mented	BPW incu	bated for	[·] 24 h at 41	1.5 °C
No.	Product	R	VS	MK	TTn					IRIS -Re	eading aft	er 24 h at 37					IRIS a	fter storaç	je in BPW f	or 72 h at	4 °C	1	IRIS	-Reading af	ter 24 h at	37 °C	
Sample		XLD	COMPASS Salmonella	XLD	COMPASS Salmonella	Final	colonies colonies	Latex OXOID	Latex CONFIRM Salmonella	Tests of the method	Final final OXOID	Final final CONFIRM Salmonella	Final final tests of the method	Fit dance latex OXOID	Fit dance Latex CONFIRM Salmonella	Fit dance tests of the method	colonies colonies	Latex OXOID	Latex CONFIRM Salmonella	Final final	Fit dance	Questionable colonies	Latex OXOID	Latex CONFIRM Salmonella	Final final OXOID	Final final CONFIRM Salmonella	Fit dance
2163	Fresh whole cream	+p	+p	+p	+p	+	+p	+	+	+	+	+	+	=	=	=	+p	+	1	+	=	+p	+	+	+	+	=
2164	Gros lait	+p	+p	+p	+p	+	+p	+	+	+	+	+	+	=	-	-	+p	+	+	+	=	+p	+	+	+	+	=
2165	Buttermilk	+p	+p	+р	+p	+	+p	+	+	+	+	+	+	=	=		+p	+	+	+	=	+p	+	+	+	+	=
2166	Drinking yoghurt	+p	+p	+p	+p	+	+p	+	+	+	+	+	+	=	=	=	+p	÷	+	+	=	+p	+	+	+	+	=
2171	Saint Félicien made with raw milk	-	-	-	-	-	-					•	-	п	П	=				-	=				-		=
2172	Goat's cheese	3col ni/+	-	+/-ni/+	-	+	+ pale	+ weak	+	+	÷	÷	+	=	The second secon	-	+ pale	+	+	+	=	+m	+	+	+	+	=
2173	Brie de Meaux made with raw milk	+	-	+	-	+	-							ND	ND	ND	-				ND	-	1	1	-	-	ND
2174	Reblochon made with raw milk	+/-ni/-	-	-	-	-	-				·			=	=	=	-			-	=	-	1	1	-	-	=
2175	Beaufort made with raw milk	+	+	+	+	+	+M	+	•	+		+	+	=	=	=	+M	+	+	+	=	+M	+	+	+	+	=
2176	Gruyère made with raw milk	+	+	+	+	+	+p	+	Ŧ	Ŧ	Ţ	+	+	=	=	=	+M	+	+	+	=	+p	+	+	+	+	=
2177	Comté made with raw milk	+	+	+	+	+	+M	+	+	÷	÷	÷	+	=	=	=	+M	+	+	+	=	+M	+	+	+	+	=
2178	Laguiole made with raw milk	+	+	+	+	+	+m	+	÷	+	+	+	+	=	=	=	+m	+	+	+	=	+M	+	+	+	+	=
2203	Tiramisu Italian recipe	+p	+p	+p	+p	÷	+p	+	÷	+	+	+	+	=	=	=	+p	+	+	+	=	+p	+	+	+	+	=
2204	Tiramisu	+p	+p	+p	+p	+	+p	+	+	+	+	+	+	=	=	=	+p	+	+	+	=	+p	+	+	+	+	-
2205	Tiramisu Italian	-	-	-	-	-	-				-	-	-	=	=	=						-	1	1	-	-	=

												DAIRY	PRODU	JCTS													
		IS	O 6579 re	eference	method *										IF	RIS Salr	nonella r	nethod									
			Characterist	ic colonies							Sup	plemente	d BPW in	cubated	for 16 h a	t 41.5 °C)					Suppler	mented	BPW incul	pated for	24 h at 41	.5 °C
No.	Product	R۱	/S	MK	TTn					IRIS -R	eading aft	ter 24 h at 3	7 °C				IRIS a	fter storag	je in BPW f	or 72 h at	4 °C		IRIS	-Reading aff	er 24 h at	37 °C	
Sample	Tioduct	XLD	COMPASS Salmonella	XLD	COMPASS Salmonella	Final	colonies colonies	Latex OXOID	Latex CONFIRM Salmonella	Tests of the method	Final final OXOID	Final final CONFIRM Salmonella	Final final tests of the method	Fit dance latex OXOID	Fit dance Latex CONFIRM Salmonella	Fit dance tests of the method	colonies colonies	Latex OXOID	Latex CONFIRM Salmonella	Final final	Fit dance	Questionable colonies	Latex OXOID	Latex CONFIRM Salmonella	Final final OXOID	Final final CONFIRM Salmonella	Fit dance
	recipe																										
2206	Tiramisu	-	-	-	-	-	-				-	-	-	=	=	=						-	1	1	-	-	=
2226	Buttermilk	-	-	-	-	-	-				-	-	-	=	=	=						-	1	1	-	-	=
2227	Fermented milk	-	-	-	-	-	-st				-	-	-	"	=	н						-st	1	1	-	-	=
2318	Powdered skim milk	-	-	-	-	-	-st				-	-	-	=	=	=				٣		-st			-	-	=
2319	Powdered skim milk	-	-	-st	-st	-	-st				-	-	-	=	Ŧ	-						-st			-	-	=
2320	Powdered semi-skim milk	-st	-st	-st	-st	-	-st				-	-		=	=	=					<u> </u>	-st			-	-	=
2220				+/-ni/				+	+		+	+		-	=	=		+	+	+	=		+		+		=
2329 2330	Raw milk Raw milk	- +/-ni/	+m +m	+/-n/ +M	+m +M	+	+p +p	+	+	+	+	+	+	-			+p +p	+	+	+	=	+p +p	+	+ +	+	+	=
2330	Raw milk	+2col	+M	+M	+W	+	+p +p	+	+	+	-	+	+	-		-	+p +p	+	+	+	-	+p +p	+	+	+	+	=
2332	Raw milk	+1col	+M	+M	+M	+	+p	+	+	+		+				=	+p	+	+	+	=	+p	+	+	+	+	=
2332	Raw milk	-	-	-			-							=		=	·p				_	- P				_	=
2334	Raw milk	-	-	-	-	-	-				-			=	=	=						-			-	-	=
2335	Raw milk	-	-			-	_					-		=	=	=						-					=
2336	Raw milk	-	-		-	-	-					-	-	=	=	=						-			-	-	=
2355	Coconut ice-	+	+	+	+	+	+p	+	+	+	+	÷	+	-	=	=	+p	+	+	+	=	+p	+	+	+	+	=
2356	Iced nougat	+	+	+	+	+	+p	+	+	+	+	+	+	=	=	=	+p	+	+	+	=	+p	+	+	+	+	=
2357	Vanilla ice-	+	+	+	+	+	+p	+	+	+	+	+	+	=	=	=	+M	+	+	+	=	+p	+	+	+	+	=
2358	cream Nougat ice-	+	+	+	+	+	+M	+		,	+	+	+	=	=	=	+M	+	+	+	=	+M	+	+	+	+	=
	cream																										<u> </u>
2386	Raw milk	-	-	-	+/- pale	+	+ni/+	-		+	-	-	+	ND	ND	=	+ni/+	+weak	-	+	=	-			-	-	ND
2387	Raw milk	-	-		-	•	-				-	-	-	=	=	=						-			-	-	=
2388	Raw milk	-	-	-	-	-					-	-	-	=	=	=				L		-st			-	-	=
2389	Raw milk	-	-	-			+	-	-	+	-	-	+	=	=	PD	+p	-	-	(ref. tests)	PD	+	+	+	+	+	PD
2390	Raw milk	+	+	+	+	+	+		-	+	-	-	+	ND	ND	=	+p	-	-	(ref. tests)	=	+	+	-	+	-	=
2484	Selles sur cher	-	-	-	-		-				-	-	-	=	=	=						-			-	-	=
2485	Saint Marcellin	-	-	-	-	-					-	-	-	=	=	=						-			-	-	=
Sumr	A Développ nary report Salmonella	(Versio	n 0)									51/98												0	6 July∶	2015	

												DAIRY	PROD	JCTS									_				
		IS	O 6579 r	eference	method *										IF	RIS Salr	monella r	nethod									
			Characterist	tic colonies							Sup	plemente	d BPW in	cubated	for 16 h a	t 41.5 °C	C			_		Suppler	nented	BPW incul	pated for	24 h at 41	l.5 ℃
No.	Product	R\	/S	MK	TTn					IRIS -Re	eading aft	er 24 h at 3	7 °C				IRIS a	ifter stora	ge in BPW f	or 72 h at	4 °C		IRIS	-Reading aff	er 24 h at	37 °C	
Sample	Tioddoc	XLD	COMPASS Salmonella	XLD	COMPASS Salmonella	Final	colonies colonies	Latex OXOID	Latex CONFIRM Salmonella	Tests of the method	Final final OXOID	Final final CONFIRM Salmonella	Final final tests of the method	Fit dance latex OXOID	Fit dance Latex CONFIRM Salmonella	Fit dance tests of the method	colonies colonies	Latex OXOID	Latex CONFIRM Salmonella	Final final	Fit dance	Questionable colonies	Latex OXOID	Latex CONFIRM Salmonella	Final final OXOID	Final final CONFIRM Salmonella	Fit dance
2486	Camembert made with raw	-	-	-	-	-	-				-	-		=	=	=						+ni/-			-	-	=
	milk																										
2487	Morbier made with raw milk	-	-	-	-	-	-				-	-	-	=	=	=						-			-	-	=
2492	Saint Nectaire	-	-	-	-	-	-				-	-	-	=	-	"						-			-	-	=
2706	Raw milk T33	-	+/- 1col	-	+/-m ni/+	+	+m ni/+	+ weak	-	+	+	-	+	=	ND	-	+1col	+	+	+	=	+2col ni/+	+	-	+	-	=
2707	Raw milk T32	+m	+/-m pale	+/-1/2	+/- pale	+	+m ni/+	+ weak	-	+	+	-	+	=	ND	=	+m	+	+	+	=	+4col ni/+	+ weak	-	+	-	=
2708	Raw milk T36	+m	+m	+M	+M	+	+p	+	+	+	+	+	+	=	=	=	+m	+	+	+	=	+p	+	+	+	+	=
2709	Reblochon made with raw	+m ni∕	+m	+m ni/+	+1/2	+	+m ni/+	+	+	+	+	÷	+	н	-	н	+3col	+	+	+	=	+m ni/ +	+	+	+	+	=
2710	milk Saint Félicien made with raw	+m	+1/2	+M	+M	+	+1/2	+	+	+			+	=	-	-	+M	+	+	+	=	+1/2	+	+	+	+	=
2711	milk Bethmale made with raw milk	+m	+1/2	+m	+1/2	+	+M	+	÷	+	÷	•	+	=	=	=	+M	+	+	+	=	+1/2	+	+	+	+	=
2743	Saint Marcellin	-	-	+1/2	-	+	+/- 2 col pale	÷	+ very weak	+	+	÷	÷	=	=	=	-			-	ND	+2col pale	+	+ very weak	+	+	=
2744	Semi-skim powdered milk	+p	+p	+p	+p	+	-st							ND	ND	ND	-st			-	ND	+p	+	+	+	+	=
2745	Whole powdered milk	-st	-st	-st	-st	-	+3 col p	+	+	÷	+	+	+	PD	PD	PD	+p	+	+	+	PD	+p	+	+	+	+	PD
2746	Skimmed powdered milk	+p	+p	+p	+p	+	-st			¢				ND	ND	ND	-st			-	ND	-st			-	-	ND
2849	Raw milk T35	-	-	-	-	-					-	-	-	=	=	=						-			-	-	=
2850	Raw milk T37	-	-	+ni/-	-	-					-	-	-	=	=	=						-			-	-	=
2851	Raw milk T39	-	-	-	-	-	•				-	-	-	=	=	=						-			-	-	=
2852	Whole powdered milk	-st	-st	-st	-st		-st				-	-	-	=	=	=						-			-	-	=
2853	Organic skimmed powdered milk	-st	-st	-st	-st		-st				-	-	-	=	=	=						-st			-	-	=
2854	Skimmed powdered milk	-st	-st	-st	-st	-	-st				-	-	-	=	=	=						-st			-	-	=
Sumr	A Développ nary report Salmonella	(Versio	n 0)									52/98												0	6 July∶	2015	

												DAIRY	PRODI	JCTS													
		Characteristic colonies RVS MKTTn XLD COMPASS Salmonella XLD COMF - - - - - - - - - - - - - - - - - - - -			method +										IF	RIS Salr	nonella	methoo									
Ν.,		RVS MKTTn XLD COMPASS Salmonella XLD COMPA Salmon - - - - - - - - - - - - - - - -										plemented		cubated	for 16 h a	it 41.5 °C						Suppler				24 h at 41	I.5 ℃
No.	Product	R	TTn					IRIS -Re	eading aft	er 24 h at 3	7 °C				IRIS a	after stora	ge in BPW f	for 72 h at	4 °C		IRIS	-Reading aff	ter 24 h at	37 °C			
Sample		XLD		XLD	COMPASS Salmonella	Final	colonies colonies	Latex OXOID	Latex CONFIRM Salmonella	Tests of the method	Final final OXOID	Final final CONFIRM Salmonella	Final final tests of the method	Fit dance latex OXOID	Fit dance Latex CONFIRM Salmonella	Fit dance tests of the method	colonies colonies	Latex OXOID	Latex CONFIRM Salmonella	Final final	Fit dance	Questionable colonies	Latex OXOID	Latex CONFIRM Salmonella	Final final OXOID	Final final CONFIRM Salmonella	Fit dance
2855	Vanilla ice- cream			-	-	-	-				-	-	-	=	=	=					5	-			-		=
2856	Nougatice- cream	-	-	-	-st	-	-				-	-	-	=	=	=						-			-	-	=
2857	Saint Félicien made with raw milk	-	-	-	-	-	-				-	-	-	=		-						-			-	-	=
2864	Camembert made with raw milk	-	-	-	-	-	-				-	-		=	=	=						-			-	-	=

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Bold face: contaminated products ni: non-isolated colony

+p: target organism in pure culture +m: target organism in minority NC: non-characteristic on nutrient agar +/-: questionable colony

+M: target organism in majority +st: sterile plate

VEGETABLES FISHERY PRODUCTS AND MISCELLANEOUS

									VEGEL	ABLES,	FISE	IERT PR	ODUC	IS ANI) MISCE	:LLANE	2008										
		IS	O 6579 re	eference	method◆										IF	IS Saln	nonella r	nethod									
			Characterist	tic colonies							Sup	plemente	d BPW in	cubated	for 16 h a	t 41.5 °C)					Suppler	mented	BPW incul	pated for	24 h at 41	1.5 °C
No.	Product	R	/S	MK	ΓTn]				IRIS -Re	ading af	ter 24 h at 3	7 °C				IRIS a	fter storaç	ge in BPW f	or 72 h at	4 °C		IRIS	-Reading aft	er 24 h at	37 °C	
Sample		XLD	COMPASS Salmonella	XLD	COMPASS Salmonella	Final	colonies colonies	Latex OXOID	Latex CONFIRM Salmonella	Tests of the method	Final final OXOID	Final final CONFIRM Salmonella	Final final tests of the method	Fit dance latex OXOID	Fit dance Latex CONFIRM Salmonella	Fit dance tests of the method	colonies colonies	Latex OXOID	Latex CONFIRM Salmonella	Final final	Fit dance	Questionable colonies	Latex OXOID	Latex CONFIRM Salmonella	Final final OXOID	Final final CONFIRM Salmonella	Fit dance
2099	Cauliflower	+M	+M	+M	+M	+	+p	+	+	+	+	+	+	=	=	=	+p	+	+	+	=	+p	+	+	+	+	=
2100	Sliced vegetables	+M	+M	+M	+M	+	+p	+	+	+	+	+	+	=	=	-	+p	+	+	+	=	+p	+	+	+	+	=
2101	Salmon and scallop au gratin	+p	+p	+p	+p	+	-st				-	-	-	ND	ND	ND	-st			-	ND	-st				-	ND
2102	Fresh cod	+M	+M	+M	+M	+	+p	+	+	+	+	+	+	=	=	-	+p	+	+	+	=	+p	+	+	+	+	=
2103	Shrimp	+M	+M	+M	+M	+	+M	+	+	+	+	+	+	=	=	=	+p	+	+	+	=	+p	+	+	+	+	=
2104	Salt cod steak	+M	+M	+M	+M	+	+p	+	+	+	+	+	+	=	=	=	+p	Ŧ	+	+	=	+р	+	+	+	+	=
2105	Scallops	+M	+M	+M	+M	+	+p	+	+	+	+	+	+	=	=	=	+p	+	+	+	=	+р	+	+	+	+	=
2106	Fresh whiting	+M	+M	+M	+M	+	+M	+	+	+	+	+	+	=	-	=	+M	+	+	+	=	+р	+	+	+	+	=
2107	Fresh cod Seafood	+M	+M	+M	+M	+	+p	+	+	+	+	+	+	н			+p	+	+	+	=	+p	+	+	+	+	=
2108	cocktail	+M	+M	+M	+M	+	+M	+	+	+	+	+	+	=	-	=	+p	+	+	+	=	+p	+	+	+	+	=
2116	Peeled cooked shrimp	+p	+p	+p	+p	+	+p	+	+	+	+	+	+	=	=	=	+p	+	+	+	=	+p	+	+	+	+	=
2117	Alaska pollack fillet	+p	+р	+р	+р	+	+р	+	+	+	+	+	+	=	=	=	+p	+	+	+	=	+р	+	+	+	+	=
2118	Albacore tuna	+p	+p	+p	+p	+	+p	+	+	+	+	+	+	=	=	=	+p	+	+	+	=	+p	+	+	+	+	=
2119	Alaska pollack	+p	+p	+p	+p	+	+p	+	+	+	+	+	+	=	=	=	+p	+	+	+	=	+p	+	+	+	+	=
2179	Pear tart	-st	-st	-st	-st	-	-st				•		-	=	=	=	-st			-	=	-st	1	1	-	-	=
2180	Bulgurand vegetable salad	-st	-st	-st	-st	-	-st				-	•		=	=	=	-st			-	=	-st	1	1	-	-	=
2181 2182	Ratatouille	-st	-st	-st	-st -st	-	-st					-	-	=	=	=	-st -st			-	=	-st -st	1	1	-	-	=
2182	Sliced carrots Brandade	-st +p	-st +p	-st	-si +p	-	-st +p	+	+	+		+	+	=	-	-	-si +p	+	+	-+	=	-si +p	+	+	-+	+	-
2191	Seafood and	٠þ	÷μ	+p	τp	+	τþ	Ť	+	Ť	-	+	*	-	-	-	τþ	+	Ŧ	-	-	τp	Ŧ	Ŧ	+	+	-
2192	pollack duo with rice	+p	+p	+p	+p	+	+p	+	+	+	+	+	+	=	=	=	+p	+	+	+	=	+p	+	+	+	+	=
2193	Cod fillets	+p	+p	+p	+p	+	+p	+	*	+]+	+	+	=	=	=	+p	+	+	+	=	+p	+	+	+	+	=
2194	Alaska pollack fillets	+p	+p	+p	+p	+	+p	+	+	+	+	+	+	=	=	=	+p	+	+	+	=	+p	+	+	+	+	=
2302	Frozen peas and carrots	-	-	-st	-st	-	-st				-	-	-	=	=	=						-st			-	-	=
2303	White cabbage	-	-	-st	-st	-	-st				-	-	-	=	=	=						-st			-	-	=
2304	Leeks	+/-(ox+)	-			-	-st				-	-	-	=	=	=						-st			-	-	=
2305	Frozen cauliflower	-	-	-st	-st		-st				-	-	-	=	=	=						-st			-	-	=
2306	Frozen mixed vegetables	-	-	-st	-st		-st				-	-	-	=	=	=						-st			-	-	=
2307	Frozen ratatouille	-st	-st	-st	-st	•	-st				-	-	-	=	=	=						-st			-	-	=

i i										VEGET	ABLES	, FISH	IERY PF	RODUC [.]	ts ani													
<table-container></table-container>			IS	O 6579 r	eference	method*										IF	RIS Salı	monella r	nethoo	1								
Photo Photo <th< td=""><td></td><td></td><td></td><td>Characterist</td><td>tic colonies</td><td></td><td></td><td></td><td></td><td></td><td></td><td>Sup</td><td>plemente</td><td>d BPW in</td><td>cubated</td><td>for 16 h a</td><td>at 41.5 °C</td><td>2</td><td></td><td></td><td></td><td></td><td>Suppler</td><td>mented</td><td>BPW incu</td><td>bated for</td><td>24 h at 41</td><td>I.5 ℃</td></th<>				Characterist	tic colonies							Sup	plemente	d BPW in	cubated	for 16 h a	at 41.5 °C	2					Suppler	mented	BPW incu	bated for	24 h at 41	I.5 ℃
Phy Phy Phy Phy Phy Phy Phy Phy Phy Phy <th< td=""><td>No.</td><td>Product</td><td>R</td><td>VS</td><td>Mk</td><td>(TTn</td><td></td><td></td><td></td><td></td><td>IRIS -Re</td><td>eading af</td><td>er 24 h at 3</td><td>7 °C</td><td></td><td></td><td></td><td>IRIS a</td><td>ifter stora</td><td>ge in BPW f</td><td>for 72 h at</td><td>4 °C</td><td></td><td>IRIS</td><td>-Reading af</td><td>ter 24 h at</td><td>37 °C</td><td></td></th<>	No.	Product	R	VS	Mk	(TTn					IRIS -Re	eading af	er 24 h at 3	7 °C				IRIS a	ifter stora	ge in BPW f	for 72 h at	4 °C		IRIS	-Reading af	ter 24 h at	37 °C	
2000 Name of a b a b <t< th=""><th>Sample</th><th></th><th>XLD</th><th></th><th>XLD</th><th></th><th>Final</th><th></th><th>Latex OXOID</th><th>CONFIRM</th><th>of the</th><th>final</th><th>final CONFIRM</th><th>final tests of the</th><th>dance latex</th><th>dance Latex CONFIRM</th><th>dance tests of the</th><th></th><th>Latex OXOID</th><th>CONFIRM</th><th>Final final</th><th></th><th></th><th>Latex OXOID</th><th>CONFIRM</th><th>final</th><th>final CONFIRM</th><th></th></t<>	Sample		XLD		XLD		Final		Latex OXOID	CONFIRM	of the	final	final CONFIRM	final tests of the	dance latex	dance Latex CONFIRM	dance tests of the		Latex OXOID	CONFIRM	Final final			Latex OXOID	CONFIRM	final	final CONFIRM	
2010 Montand Symptoc 1 A		-)						
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211 Max M		vegetables										-																
10 10<			-st	-st		-	-					-		-												-		
Alt A	2311	fillet	-	-	-	-st	-	-st				-	-	-	=	=	=				r		-st			-	-	
1214 1214 1214 121 1 <t< td=""><td>2312</td><td></td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-st</td><td></td><td></td><td></td><td>-</td><td>-</td><td>-</td><td>=</td><td>=</td><td>-</td><td></td><td></td><td></td><td></td><td></td><td>-st</td><td></td><td></td><td>-</td><td>-</td><td>=</td></t<>	2312		-	-	-	-	-	-st				-	-	-	=	=	-						-st			-	-	=
2126 Processing · · · · · · · · · · · · · · · · · · ·	2313																											
201 201 <td>2314</td> <td></td> <td> </td> <td></td> <td></td> <td></td> <td> </td> <td> </td> <td></td> <td></td> <td></td>	2314																											
alg alg <td>2488</td> <td>vegetable</td> <td>-st</td> <td>-st</td> <td>-st</td> <td>-st</td> <td>-</td> <td>-st</td> <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td>•</td> <td>=</td> <td>=</td> <td>=</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-st</td> <td></td> <td></td> <td>-</td> <td>-</td> <td>=</td>	2488	vegetable	-st	-st	-st	-st	-	-st				-	-	•	=	=	=						-st			-	-	=
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1280 1280 1280 120	2491	Lasagna Bolognaise	-st	-st	-st	-st	-	-st				-	- /	-	=	=	=						-st			-	-	=
1000 and in transmit 1	2594		-st	-st	-st	-st	-	-				•	-		=	=	=						-			-	-	=
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Name Name <th< td=""><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td>-</td><td>-</td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>					-							-	-	-				1										
2605 New Sealop artin.		rice duo								+	+	+		+						+				+				
2010 Column of columnal of colum			+M	+M	+M	+M	+	+	+	+	+		+	+				+	+	+	+	=	+	+	+	+	+	
2600 scalapa u *p *p<	2605	cake	-	-	-	-	-	-					-	-	=	=	=						-			-	-	=
ZT12 EggeDant gratin +M +1/2 +p +m +p +p + +p +	2606	scallop au	+p	+p	+p	+p	+	+		+	Ŧ	+	÷	+	=	=	=	+	+	+	+	=	+	+	+	+	+	=
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27.3 gratin +p	2712	gratin	+M	+1/2	+p	+m	+	+p	+	+	+	+	+	+	=	=	=	+p	+	+	+	=	+p	+	+	+	+	=
Z/14 style gratin +M +M +M +M +M + + + +	2713		+p	+p	+p	+p	+	+p	+	+	+	+	+	+	=	=	=	+p	+	+	+	=	+p	+	+	+	+	=
Fish and rice with weigetables +m +1/2 +p +M +p +m +t +p +t +t <td>2714</td> <td></td> <td>+M</td> <td>+1/2</td> <td>+M</td> <td>+M</td> <td>+</td> <td>+M</td> <td>+</td> <td>+</td> <td>+</td> <td>+</td> <td>+</td> <td>+</td> <td>=</td> <td>=</td> <td>=</td> <td>+M</td> <td>+</td> <td>+</td> <td>+</td> <td>=</td> <td>+M</td> <td>+</td> <td>+</td> <td>+</td> <td>+</td> <td>=</td>	2714		+M	+1/2	+M	+M	+	+M	+	+	+	+	+	+	=	=	=	+M	+	+	+	=	+M	+	+	+	+	=
Frozen ratatouille attratouille 2717 +p	2715	Fish and rice with	+m	+1/2	+p	+M	÷	+p	+	+	+	+	+	+	=	=	=	+M	+	+	+	=	+p	+	+	+	+	=
2717 Southern stir- fry +1/2	2716	Frozen ratatouille	+p	+p	+p	+p	+	+p	+		+	+	+	+	=	=	=	+p	+	+	+	=	+p	+	+	+	+	=
Inv	2717	Southern stir-	+1/2	+1/2	+M	+M	+	+p	+	+	+	+	+	+	=	=	=	+p	+	+	+	=	+p	+	+	+	+	=
$\frac{1}{10}$	2718	Parisian stir-	+M	+m	+M	+M	+		+	+	+	+	+	+	=	=	=		+	+	+	=		+	+	+	+	=
	2719	Vegetable and	+p	+p	+p	+p	+	+p	+	+	+	+	+	+	=	=	=	+p	+	+	+	=		+	+	+	+	=
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Summary report (Version 0)

SOLABIA

							VEGETABLES, FISHERY PRODUCTS AND MISCELLANEOUS IRIS Salmonella method Supplemented BPW incubated for 16 h at 41.5 °C Supplemented BPW incubated for 16 h at 41.5 °C IRIS -Reading after 24 h at 37 °C IRIS after storage in BPW for 72 h at 4 °C IRIS -Reading after 24 h at 37 °C IRIS -Reading after 24 h at 37 °C IRIS after storage in BPW for 72 h at 4 °C IRIS -Reading after 24 h at 37 °C IRIS -Reading after 24 h at 37 °C IRIS after storage in BPW for 72 h at 4 °C IRIS -Reading after 24 h at 37 °C IRIS after storage in BPW for 72 h at 4 °C IRIS -Reading after 24 h at 37 °C IRIS after storage in BPW for 72 h at 4 °C IRIS -Reading after 24 h at 37 °C IRIS after storage in BPW for 72 h at 4 °C IRIS -Reading after 24 h at 37 °C IRIS after storage in BPW for 72 h at 4 °C IRIS -Reading after 24 h at 37 °C IRIS after storage in BPW for 72 h at 4 °C IRIS -Reading after 24 h at 37 °C IRIS after storage in BPW for 72 h at 4 °C IRIS -Reading after 24 h at 37 °C IRIS after storage in BPW for 72 h at 4 °C IRIS -Reading after 24 h at 37 °C <th col<="" th=""><th></th><th></th></th>		<th></th> <th></th>																		
		IS	SO 6579 r	eference	method +				IRIS Salmonella method Supplemented BPW incubated for 16 h at 41.5 °C Supplemented BPW incubated for 16 h at 41.5 °C IRIS -Reading after 24 h at 37 °C IRIS after storage in BPW for 72 h at 4 °C IRIS -Reading after 24 h at 37 °C Latex CONFIRM Salmonella Final final final final final final final final final of the method Final final final final final final final final final salmonella Final final final final final final final final final salmonella Final final final final final final final final final salmonella Final final darce latex colspines colspines Latex CONFIRM final final colspines Final final final colspines <th colspi<="" th=""><th></th><th></th></th>													<th></th> <th></th>					
			Characterist	tic colonies				IRIS Salmonella method Supplemented BPW incubated for 16 h at 41.5 °C Supplemented BPW incubated for 16 h at 41.5 °C IRIS -Reading after 24 h at 37 °C IRIS after storage in BPW for 72 h at 4 °C IRIS -Reading after 24 h at 37 °C IRIS after storage in BPW for 72 h at 4 °C IRIS -Reading after 24 h at 37 °C IRIS after storage in BPW for 72 h at 4 °C IRIS -Reading after 24 h at 37 °C IRIS after storage in BPW for 72 h at 4 °C IRIS -Reading after 24 h at 37 °C IRIS after storage in BPW for 72 h at 4 °C IRIS -Reading after 24 h at 37 °C IRIS after storage in BPW for 72 h at 4 °C IRIS -Reading after 24 h at 37 °C IRIS after storage in BPW for 72 h at 4 °C IRIS -Reading after 24 h at 37 °C IRIS after storage in BPW for 72 h at 4 °C IRIS -Reading after 24 h at 37 °C IRIS after storage in BPW for 72 h at 4 °C IRIS -Reading after 24 h at 37 °C IRIS after storage in BPW for 72 h at 4 °C IRIS -Reading after 24 h at 37 °C IRIS after storage in BPW for 72 h at 4 °C IRIS -Reading after 24 h at 37 °C IRIS -Reading after 24 h at 37 °C <th colspan<="" td=""><td>[.] 24 h at 4</td><td>1.5 °C</td></th>														<td>[.] 24 h at 4</td> <td>1.5 °C</td>	[.] 24 h at 4	1.5 °C			
No.	Product	R	VS	MK	TTn		nal colonies Latex CONFIRM of the method OXOID CONFIRM of the colonies Latex CONFIRM final contract of the colonies colonies colonies CONFIRM of the method of the colonies colonie															IRIS	-Reading af	ter 24 h at	:37 °C		
Sample		XLD	COMPASS Salmonella	XLD	COMPASS Salmonella	Final			Latex CONFIRM Salmonella	Tests of the method	Final final OXOID	final	tests of the	dance	Latex CONFIRM	tests of the		Latex OXOID	Latex CONFIRM Salmonella	Final final		Questionable colonies		Latex CONFIRM Salmonella	final	Final final CONFIRM Salmonella	Fit dance
	stir-fry																				<u> </u>						
2720	Frozen ratatouille vegetables	-st	-st	-st	-st	-	+p	+	+	+	+	+	+	PD	PD	PD	+p	+	÷	+	PD	+p	+	+	+	+	PD
2721	Southern stir- fry	+m	+m	+M	+M	+	+p	+	+	+	+	+	+	=	=	=	+p	+	+	+	=	+p	+	+	+	+	=
2858	Frozen chopped spinach	-st	-st	-st	-st	-	-st				-	-		=	=	-						-st			-	-	=
2859	Frozen leek	-st	-st	-st	-st	-	-st				-	-	-	=	=	-						-st			-	-	=

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Bold face: contaminated products ni: non-isolated colony

+p: target organism in pure culture +m: target organism in minority NC: non-characteristic on nutrient agar +/-: questionable colony

+M: target organism in majority +st: ster

+st: sterile plate

												EGG F	PRODU	CTS													
		15	SO 6579 r	eference	method*										IF	RIS Salr	nonella	methoo									
			Characterist	tic colonies							Sup	plemented	BPW in	cubated	for 16 h a	it 41.5 °C)					Suppler	mented	BPW incu	bated for	24 h at 4	1.5 °C
No.	Product	R	2VS	MK	TTn					IRIS -Re	eading af	er 24 h at 3					IRIS a	after stora	ge in BPW 1	for 72 h at	4 °C		IRIS	-Reading af	ter 24 h at	37 °C	
Sample		XLD	COMPASS Salmonella	XLD	COMPASS Salmonella	Final	colonies colonies	Latex OXOID	Latex CONFIRM Salmonella	Tests of the method	Final final OXOID	Final final CONFIRM Salmonella	Final final tests of the method	Fit dance latex OXOID	Fit dance Latex CONFIRM Salmonella	Fit dance tests of the method	colonies colonies	Latex OXOID	Latex CONFIRM Salmonella	Final final	Fit dance	Questionable colonies	Latex OXOID	Latex CONFIRM Salmonella	Final final OXOID	Final final CONFIRM Salmonella	Fit dance
2159	Egg cream	+p	+p	+p	+p	+	+p	+	+	+	+	+	+	=	=	н	+p	+	+	+	=	+p	+	+	+	+	=
2160	Semolina pudding	+p	+p	+p	+p	+	+p	+	+	+	+	+	+	=	=	=	+p	+	+	+	=	+p	+	+	+	+	=
2161	Leek quiche	+p	+p	+p	+p	+	+p	+	+	+	+	+	+	=	H	=	+p	+	+	+	=	+p	+	+	+	+	=
2162	Vegetable quiche	+p	+p	+p	+p	+	+p	+	+	+	+	+	+	=	=	=	+p	+	+	+	=	+p	+	+	+	+	=
2167	Fine mayonnaise with lemon	+p	+p	+p	+p	+	+p	+	+	+	+	+	+	=	1	=	+p	+	+	+	=	+p	+	+	+	+	=
2168	Plain mayonnaise	+p	+p	+p	+p	+	-						-	ND	ND	ND	-st				ND	-st			-	-	ND
2169	Fresh	+p	+p	+p	+p	+	+p	+	+	+	+	+	+	=	-	=	+p	+	+	+	=	+p	+	+	+	+	=
	mayonnaise Pasta salad																										<u> </u>
2170	with salmon and mayonnaise	+p	+p	+p	+p	+	+p	+	÷	+	+	•	÷	=	=	=	+m	+	+	+	=	+m	+	+	+	+	=
2207	Mayonnaise with mustard	+p	+p	+p	+p	+	+p	+	+	+	+	+	+	=	=	=	+p	+	+	+	=	+p	+	+	+	+	=
2208	Fine mayonnaise	+p	+p	+p	+p	+	+p	+		+	+	+	+	=	=	=	+p	+	+	+	=	+р	+	+	+	+	=
2209	Mayonnaise with olive oil	+p	+p	+p	+p	+	+p	+	+	Ţ	•	÷.	+	=	=	=	+p	+	+	+	=	+p	+	+	+	+	=
2210	Mayonnaise with old style mustard	+p	+p	+p	+p	+	+p	+	÷	+	÷	•	+	=	=	=	+p	+	+	+	=	+p	+	+	+	+	=
2228	Egg cream	-	-	-	-	-	-st			-	-	-	-	=	=	=	-st				=	-st	/	1	-	-	=
2229	Semolina pudding	-	-	-	-		-st				-	-	-	=	=	=						-st	1	1	-	-	=
2230	Old style mustard	-	-	-			-st				-	-	-	=	=	=						-st	1	1	-	-	=
2231	Mayonnaise	-	-	-		-	-st				-	-	-	=	=	=						-st	/	1	-	-	=

												EGG I	PRODU	CTS													
		IS	O 6579 r	eference	method *										IR	RIS Salr	monella ı	nethod									
			Characteris	tic colonies							Sup	plemente	BPW in	cubated	for 16 h a	t 41.5 °C	0					Suppler	mented	BPW incu	bated for	24 h at 41	1.5 ℃
No.	Product	R	VS	MK	TTn			-		IRIS -Re	eading af	ter 24 h at 3					IRIS a	ifter stora	ge in BPW f	or 72 h at	4 °C		IRIS	-Reading af	ter 24 h at	37 °C	
Sample		XLD	COMPASS Salmonella	XLD	COMPASS Salmonella	Final	colonies colonies	Latex OXOID	Latex CONFIRM Salmonella	Tests of the method	Final final OXOID	Final final CONFIRM Salmonella	Final final tests of the method	Fit dance latex OXOID	Fit dance Latex CONFIRM Salmonella	Fit dance tests of the method	colonies colonies	Latex OXOID	Latex CONFIRM Salmonella	Final final	Fit dance	Questionable colonies	Latex OXOID	Latex CONFIRM Salmonella	Final final OXOID	Final final CONFIRM Salmonella	Fit dance
2232	Mayonnaise with olive oil	-	-	-	-	-	-st				-	-	-	=	=	=					\int	-st	1	/	-	-	=
2233	Leek tart	-	-	-	-	-	-st				-	-	-	=	=	-						-st	/	1	-	-	=
2234	Powdered egg white	-	-	-	-		-st				-	-	-	=	=	=						-st	1	1	-	-	=
2345	Whole powdered egg	-st	-st	-st	-st	-	-st				-	-	-	=		н						-st			-	-	=
2346	Whole powdered egg	-st	-st	-st	-st	-	-st				-	-	-	=	Ξ	-						-st			-	-	=
2347	Whole powdered egg	-st	-st	-st	-st	-	-st				-	-		=	=	=						-st			-	-	=
2348	Whole powdered egg	-	-	-st	-st	-	-st				-	·			-	-						-st			-	-	=
2349	Powdered egg	+	+	+	+	+	+p	+	+	+	+	+	+	=	=		+p	+	+	+	=	+p	+	+	+	+	=
2350	Powdered egg	+	+	+	+	+	+p	+	+	+	+	+	+	=		=	+p	+	+	+	=	+p	+	+	+	+	=
2351	white Powdered egg	+	+	+	+	+	+p	+	+	+	+	÷	+	=	=	=	+p	+	+	+	=	+p	+	+	+	+	=
2352	white Powdered egg	+	+	+	+	+	+p	+	+	+	+	+	+	Ŧ	=	=	+p	+	+	+	=	+p	+	+	+	+	=
2353	white Whole powdered egg	-st	-st	-st	-st	-	-st				Ţ		•	=	=	=						-st			-	-	=
2354	Powdered egg white	-st	-st	-st	-st	-	-st							=	=	=						-st			-	-	=
2371	Whole liquid egg portion	+/-ni/+	+	+ni/+	+	+	+ni/+		+ very weak	+	÷	÷	+	=	=	=	+m ni/+	+	+ very weak	+	=	-			-	-	ND
2372	Whole liquid egg portion	-	-	+/-ni/+ (Citrobacter braakii)	-	-			Weak			2.	-	=	=	=						-			-	-	=
2373	Liquid egg yoke portion	-	-	-	-		-				-	-	-	=	=	=						-			-	-	=
2374	Liquid egg yoke portion	-	-	+/-ni/+ (Citrobacter braakii)							-	-	-	=	=	=						-			-	-	=
2375	Liquid egg yoke portion	+/-ni/+ (Citrobacter braakii)	-	+/-ni/-	-		-				-	-	-	=	=	=	-				=	-			-	-	=
2376	Liquid egg white portion	-	-	-	-		-				-	-	-	=	=	=						-			-	-	=
2377	Liquid egg white portion	-	-	-	-		-				-	-	-	=	=	=						-			-	-	=
Sumr	A Développ nary report Salmonella	t (Versio	in 0)									58/98						-			-		-	0	6 July	2015	

												EGG F	PRODU	CTS													
		IS	O 6579 r	eference	method*										IF	RIS Salr	nonella r	nethod									
			Characteris	tic colonies							Sup	plemented	d BPW in	cubated	for 16 h a	it 41.5 °C)					Suppler	mented	BPW incu	bated for	24 h at 41	.5 ℃
No.	Product	R	VS	MK	TTn					IRIS -Re	eading aft	er 24 h at 3	7 °C				IRIS a	fter storag	e in BPW fo	or 72 h at	4 °C		IRIS	-Reading af	ter 24 h at	37 °C	
Sample		XLD	COMPASS Salmonella	XLD	COMPASS Salmonella	Final	colonies colonies	Latex OXOID	Latex CONFIRM Salmonella	Tests of the method	Final final OXOID	Final final CONFIRM Salmonella	Final final tests of the method	Fit dance latex OXOID	Fit dance Latex CONFIRM Salmonella	Fit dance tests of the method	colonies colonies	Latex OXOID	Latex CONFIRM Salmonella	Final final	Fit dance	Questionable colonies	Latex OXOID	Latex CONFIRM Salmonella	Final final OXOID	Final final CONFIRM Salmonella	Fit dance
2378	Liquid egg white portion	-	-	+/-ni/+ (Citrobacter braakii)	-	-	-				-	-	-	=	=	=	-					-			-	-	=
2379	Liquid egg white portion	-	-	+/-ni/+ (Citrobacter braakii)	-	-	-				-	-	-	=	=	=					=	-			-	-	=
2380	Liquid egg white portion	-	-		-	-	-				-	-	-	=	=	=				7		-			-	-	=
2381	Mayonnaise	-	-	-	-	-	+/- pale	-	-	E. coli	-	-	-	=	PPNA	PPNA						-			-	-	=
2382	Mayonnaise	-	-	-	-	-	-				-	-	-	=	=	=						-			-	-	=
2383	Mayonnaise	+/-ni/	+	+	+	+	+ni/+	+	+	+	+	+	•	=	=	=	+m ni/+	+	+	+	=	+pale /+	+	+	+	+	=
2384	Mayonnaise	-	-	+/-ni/+ (Citrobacter youngae)	-	-	-				-		-	Ŧ	-	=	-				=	-			-	-	=
2385	Mayonnaise	-	-	-	-	-	+ni/+	-	-	E. coli			-	=	PPNA	PPNA	-				=	-			-	-	=
2500	Mayonnaise with lemon	-st	-st	-st	-st	-	-st					•		"	н	=						-st			-	-	=
2501	Mayonnaise with old style mustard	-st	-st	-st	-st	-	-st				·		·	=	=	=						-st			-	-	=

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												EGG F	PRODU	CTS													
		IS	O 6579 r	eference	method*										IF	RIS Salr	nonella r	nethod									
			Characteris	tic colonies							Sup	plemented	BPW in	cubated	for 16 h a	t 41.5 °C	2					Suppler	mented	BPW incu	bated for	24 h at 41	1.5 ℃
No.	Product	R	VS	MK	TTn					IRIS -Re	eading af	ter 24 h at 3	7 °C				IRIS a	fter storaç	ge in BPW f	or 72 h at	4 °C		IRIS	-Reading af	er 24 h at	37 °C	
Sample		XLD	COMPASS Salmonella	XLD	COMPASS Salmonella	Final	colonies colonies	Latex OXOID	Latex CONFIRM Salmonella	Tests of the method	Final final OXOID	Final final CONFIRM Salmonella	Final final tests of the method	Fit dance latex OXOID	Fit dance Latex CONFIRM Salmonella	Fit dance tests of the method	colonies colonies	Latex OXOID	Latex CONFIRM Salmonella	Final final	Fit dance	Questionable colonies	Latex OXOID	Latex CONFIRM Salmonella	Final final OXOID	Final final CONFIRM Salmonella	Fit dance
2502	I raditional mayonnaise	-st	-st	-st	-st	-	-st				-	-	-	=	=	=						-st			-	-	=
2503	Liquid egg yoke portion	-	-	+/-m/+ (Citrobacter braakii)	-	-	+ pale	-	-	E. coli	-	-	-	=	PPNA	PPNA	+pale	-			=	+m pale	-	-	-	-	PPNA
2504	Liquid egg yoke portion	+m	+m	+M	+1/2	+	+ pale	+	+	+	+	+	+	=	=	н	+m	+	+	+	=	+1/2	+	+	+	+	=
2505	Liquid egg yoke portion	+/-mni/+	+m	+m	-	+	-				-	-	-	ND	ND	ND	-			-	ND	+pale (E. coli)	-	-	-	-	ND
2506	Liquid egg portions	+m	+m	+1/2	+mni/	+	+	+	+	+	+	+	+	=	H	-	+m	+	+	+	=	+1/2	+	+	+	+	=
2507	Liquid egg portions	-	-	-	-	-	-				-	-	-	=	Е	=	•			-	=	-			-	-	=
2673	Mayonnaise	-st	-st	-st	-st	-	-st				-	-	<u> </u>	=	=	=		Ţ				-st			-	-	=
2674	Mayonnaise	-st	-st	-st	-st	-	-st				-	-		=	=	=						-st			-	-	=
2747	Pasteurised whole liquid egg portion	+p	+p	+p	+p	+	+p	+	+	+	+	+	+	н	-		+p	+	+	+	=	+p	+	+	+	+	=
2748	Pasteurised whole liquid egg portion	+p	+p	+p	+p	+	+20 col p	+	+	+	Ŧ		+	н	н	-	+p	+	+	+	=	+p	+	+	+	+	=
2749	Pasteurised whole liquid egg portion	+p	+р	+р	+p	+	+p	+	+	+	+	÷	+	-	T	=	+p	+	+	+	=	+p	+	+	+	+	=
2750	Pasteurised liquid egg yoke portion	+p	+р	+р	+p	+	+p	+	+	+	+	÷	+	=	=	=	+p	+	+	+	=	+p	+	+	+	+	=
2751	Pasteurised liquid egg yoke portion	+p	+p	+p	+p	+	+p	+	÷	+	+	+	+	=	=	=	+p	+	+	+	=	+p	+	+	+	+	=
2752	Flan preparation	+p	+p	+p	+p	+	+p	Ŧ	÷	+	+	+	+	=	=	=	+p	+	+	+	=	+p	+	+	+	+	=
2753	Custard preparation	+p	+p	+p	+p	+	+p	+	+	Ŧ	+	+	+	=	=	=	+p	+	+	+	=	+p	+	+	+	+	=
2754	Crème brûlée preparation	+p	+p	+p	+p	+	+p	+	+		+	+	+	=	=	=	+p	+	+	+	=	+p	+	+	+	+	=
2791	Powder for custard cream	-st	-st	-st	-st	-	+p	+	+	+	+	+	+	PD	PD	PD	+p	+	+	+	PD	+p	+	+	+	+	PD
2792	Egg cream powder	+p	+p	+p	+p	+	+2col	+	÷	÷	+	+	+	=	=	=	+3col	+	+	+	=	+p	+	+	+	+	=

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Bold face: contaminated products ni: non-isolated colony

+p: target organism in pure culture +m: target organism in minority NC: non-characteristic on nutrient agar +/-: questionable colony

+M: target organism in majority +st: sterile plate

												ANIM	al fei	EDS													
		IS	O 6579 r	eference	method •										II	RIS Saln	nonella ı	nethoo									
			Characterisi	tc colonies							Sup	oplemente	BPW in	cubated	for 16 h a	at 41.5 °C	;					Suppler	mented	BPW incu	bated for	r 24 h at 41	1.5 ℃
No.	Product	R	VS	MK	TTn					IRIS -Re	eading af	ter 24 h at 3	7 °C				IRIS a	fter storaç	ge in BPW f	or 72 h at	4 °C		IRIS	-Reading af	ter 24 h a	: 37 °C	
Sample		XLD	COMPASS Salmonella	XLD	COMPASS Salmonella	Final	colonies colonies	Latex OXOID	Latex CONFIRM Salmonella	Tests of the method	Final final OXOID	Final final CONFIRM Salmonella	Final final tests of the method	Fit dance latex OXOID	Fit dance Latex CONFIRM Salmonella	Fit dance tests of the method	colonies colonies	Latex OXOID	Latex CONFIRM Salmonella	Final final	Fit dance	Questionable colonies	Latex OXOID	Latex CONFIRM Salmonella	Final final OXOID	Final final CONFIRM Salmonella	Fit dance
2109	Powdered plasma	-	-	-	-	-	-				-	-	-	=	=	=						-			-	-	=
2112	Scalded menu used as raw material	-	-	-	-	-	-				-	-	-	=	=	-				-	=	-st			-	-	=
2113	MC3 waste taken from abattoir for processing	+m	+m	+M	+M	+	+M	+	+	+	+	+	+	=	Ξ	=	+M	•	+	+	=	+1/2	+	+	+	+	=
2114	Off-cuts to be melted for lard	+/-m	+m	+m	+m	+	+M	+	+	+	+	+	+	=	H	=	+M	+	+	+	=	+M	+	+	+	+	=
2115	Citrated blood for dried plasma and haemoglobin manufacture	-	-	-	-	-	-							=	н	=				-	=				-	-	=
2195	Bones for animals A	+p	+p	+p	+p	+	+p	+	+	+	+	÷	+	=	н	=	+p	+	+	+	=	+p	+	+	+	+	=
2196	Bones for animals B	+p	+p	+p	+р	+	+р	+	+	+	+	+	+	=	=	=	+p	+	+	+	=	+р	+	+	+	+	=
2197	Poultry bones	+Mni/+	+р	+Mni/+	+Mni/+	+	+р	+	+	+	+	+	+	=	=	=	+p	+	+	+	=	+p	+	+	+	+	=
2198	Offcuts for dogs	+p	+p	+p	+p	+	+p	+	+	÷	+	+	+	=	=	=	+p	+	+	+	=	+p	+	+	+	+	=
2199	Bones for animals A	+p	+p	+p	+p	+	+p	Ŧ	•	÷	Ŧ	+	+	=	=	=	+p	+	+	+	=	+p	+	+	+	+	=
2200	Bones for animals B	+p	+p	+p	+p	+	+p	÷	+	÷	+	Ŧ	+	=	=	=	+p	+	+	+	=	+p	+	+	+	+	=
2202	Offcuts for dogs	+p	+p	+p	+p	+	+p	÷	+	+	÷	2,	+	=	=	=	+p	+	+	+	=	+p	+	+	+	+	=
2224	Bones for animals	+/- (Hafnia alvei)	+/-(Ox+)	+/- (Hafnia alvei)	-	-					-	-	-	=	=	=	-				=	-	1	1	-	-	=
2225	Beef off-cuts for dogs	-	-	-	-						-	-	-	=	=	=						-	/	1	-	-	=
2316	Dried dog food	-st	-st	-st	-st	-	-st				-	-	-	=	=	=						-st			-	-	=
2317	Stuffed dog biscuits	-st	-st	-st	-st		-st				-	-	-	=	=	=						-st			-	-	=
2391	Pellets for pigs	-	-	-st	-st		-st				-	-	-	=	=	=						-st			-	-	=

												ANIM	AL FE	EDS													
		IS	O 6579 r	eference	method •										II	RIS Salı	monella	method									
			Characterisi	itc colonies							Sup	oplemente	d BPW in	cubated	for 16 h a	at 41.5 °(0					Supple	mented	BPW incu	bated for	r 24 h at 41	1.5 °C
No.	Product	R	VS	MK	TTn					IRIS -R	leading af	ter 24 h at 3	7 °C				IRIS a	fter storaç	ge in BPW f	or 72 h at	4 °C		IRIS	-Reading af	ter 24 h at	37 °C	
Sample		XLD	COMPASS Salmonella	XLD	COMPASS Salmonella	Final	colonies colonies	Latex OXOID	Latex CONFIRM Salmonella	Tests of the method	Final final OXOID	Final final CONFIRM Salmonella	Final final tests of the method	Fit dance latex OXOID	Fit dance Latex CONFIRM Salmonella	Fit dance tests of the method	colonies colonies	Latex OXOID	Latex CONFIRM Salmonella	Final final	Fit dance	Questionable colonies	Latex OXOID	Latex CONFIRM Salmonella	Final final OXOID	Final final CONFIRM Salmonella	Fit dance
2392	Pig meal	-	-	-st	-st	-	-st				-	-	-	=	=	=						-st			-	-	=
2393	Pellets for horses	-	-	-st	-st	-	-st				-	-	-	=	=							-st			-	-	=
2394	Pellets for pigs	-	-st	-st	-st	-	-st				-	-	-	=	=	-						-st			-	-	=
2493	Beef for animals	+/-m ni/+ (Citrobacter youngae)	-	+M (Citrobacter youngae)	-	-	-				-	-		=	=	=				- 1	=	-			-	-	=
2494	Beef for animals	-	-	-	-	-	-				-	-	-	=	=	-						-			-	-	=
2495	Boneless flank for animals	-	-	-	+/-ni/-	-	-				-	-		=	=	=				-	=	-			-	-	=
2496	Beef for animals	+/-mni/+ (Citrobacter braakii)	-	-	-	-	-				-	-	•	=	=	=				-	=	-			-	-	=
2497	Meat with bones for animals	-	-	-	-	-	-							-	=	1						-			-	-	=
2498	Dried pig feed	-st	-st	-st	-st	-	-st				-	-	-	и	I	=						-st			-	-	=
2499	Pellets for pigs	-st	-st	-st	-st		-st					-		"	=	=						-st			-	-	=
2598	Lamb terrine for dogs	-st	-st	-st	-st	-	-st				·		-	=	=	=						-st			-	-	=
2599	Beef terrine for dogs	-st	-st	-st	-st	-	-st				-	·		Ξ	=	=						-st			-	-	=
2600	Mash	-st	-st	-st	-st	-	-st					-	-	=	=	=						-st			-	-	=
2601	White meat mash	-st	-st	-st	-st	-	-st					-		=	=	=						-st			-	-	=
2602	Fish-flavoured mash	-st	-st	-st	-st	-	-st				··			=	=	=						-st			-	-	=
2607	Cat food	+p	+p	+p	+p	+	+	+	+	+	+	+	+	=	=	=	+	+	+	+	=	+	+	+	+	+	=
2608	Poultry- flavoured mash	+p	+p	+p	+p	+	-st					-	-	ND	ND	ND	-st			-	ND	÷	+	÷	+	+	=
2609	Fish-flavoured mash	+p	+p	+p	+p	+	+	+	+	+	+	+	+	=	=	=	+	+	+	+	=	+	+	+	+	+	=
2610	Beef-flavoured mash	+р	+p	+р	+p	+	+	+	+	+	+	+	+	=	=	=	+	+	+	+	=	+	+	+	+	+	=
2728	Concentrated plasma	+1/2	+m	+M	+M	+	+m	+	+	+	+	+	+	=	=	=	+m	+	+	+	=	+m	+	+	+	+	=
2730	Kidneys (raw material for animal feed)	+m	+1/2	+m	+m	Ŧ	+m ni/+	+	+	+	+	+	+	=	=	=	+m ni/+	+	+	+	=	+m	+	+	+	+	=

												ANIM	IAL FE	EDS													
		IS	O 6579 r	eference	method*	•											nonella r	nethod	b			1					
				itc colonies								oplemente		ncubated	for 16 h a	t 41.5 °C						Supple		BPW incul			l.5 ℃
No.	Product	R	VS	MK	TTn					IRIS -R	leading af	ter 24 h at 3		-			IRIS a	fter stora	ge in BPW f	or 72 h at	4 °C		IRIS	-Reading aff	er 24 h at	37 °C	
Sample		XLD	COMPASS Salmonella	XLD	COMPASS Salmonella	Final	colonies colonies	Latex OXOID	Latex CONFIRM Salmonella	Tests of the method	Final final OXOID	Final final CONFIRM Salmonella	Final final tests of the method	Fit dance latex OXOID	Fit dance Latex CONFIRM Salmonella	Fit dance tests of the method	colonies colonies	Latex OXOID	Latex CONFIRM Salmonella	Final final	Fit dance	Questionable colonies	Latex OXOID	Latex CONFIRM Salmonella	Final final OXOID	Final final CONFIRM Salmonella	Fit dance
2731	Skirt (raw material for animal feed)	+m	+m	+m	+M	+	+1/2	+	+	+	+	+	+	=	=	"	+1/2	+	+	+	Ŧ	+1/2	+	+	+	+	=
2732	Category 3 material	+m	+m	+m	+1/2	+	+m	+	+	+	+	+	+	=	=	=	+m	+	+	+	=	+M	+	+	+	+	=
2733	Bleeding wound	-	-	+m (Citrobacter youngae)	-	-	+m	-	-	-(ox+, Vibrio fluvialis)	-	-	-	=	PPNA	PPNA	+ m ni/-				=	-			-	-	=
2734	Pork temple (raw material for animal feed)	-	-	+m ni/-	-	-	-				-	-	-	=	=	IT.	·			-	=	+ni/+	+	+	+	+	PD
2797	Rape, sunflower and	+p	+р	+ni/	+ni/	+	+1col	+	+	+	+	+	+	=	=	=				-	ND	+1col ni/+	+	+	+	+	=
2798	soya cake Pellets for		-	_			-st				_			-	-	=						-st					=
2799	pigs Pellets for						-st							=								-st					=
2800	calves Pellets for			-st	-st		-st							=		=						-st				-	=
2801	pigs Soya cakes for		+1/2			+	+p	+	+			+			=	=	+p		+	+	=	+p	+	+		+	=
2802	calves Wheat meal		- 1/2	-		-	-st		Ť	•			Ţ		=	=	÷ρ	Ŧ	-	•	-	-st	Ť		•	-	-
2802	for pigs Meal for	-				-	-st							-	=	=						-si				-	-
2804	poultry Meal for		-	-st	-st		-st			$\overline{}$				=	=	=						-st				-	=
2805	poultry Soya cakes for	+p	+p	+ni/	+ni/	+	+p		÷				+	=	=	=	+3col	+	+	+	=	+p	+	+	+	+	=
2806	calves Rape, sunflower and	-	-	-	-	-	-st						-	=	=	=						-st			-	-	=
2807	soya cake Rape, sunflower and soya cake	-	-				-st				-	-	-	=	=	=						-st			-	-	=
2808	Meal for	-	-				+p	+		+	+	+	+	PD	PD	PD	+p	+	+	+	PD	+p	+	+	+	+	PD
2809	poultry Pellets for		-	-			-st				-	-	-	=	=	=						-st			-	-	=
2810	pigs Pellets for pigs	-		-st	-st		-st				-		-	=	=	=						-st			-		=
Sumr	A Développ nary report Salmonella	(Versio										63/98		•						•	•		•	C	6 July	2015	

												ANIM	al fei	EDS													
		IS	O 6579 r	eference	method*	•									IF	RIS Salr	nonella r	nethoo	ł								
			Characterisi	tc colonies							Sup	plemented	BPW in	cubated	for 16 h a	t 41.5 °C	2					Suppler	nented	BPW incu	bated for	r 24 h at 41	1.5 ℃
No.	Product	R	VS	MK	TTn					IRIS -R	eading aft	er 24 h at 37	°C				IRIS at	fter stora	ge in BPW fo	or 72 h at	4 °C		IRIS	-Reading af	er 24 h ai	t 37 °C	
Sample		XLD	COMPASS Salmonella	XLD	COMPASS Salmonella	Final	colonies colonies	Latex OXOID	Latex CONFIRM Salmonella	Tests of the method	Final final OXOID	Final final CONFIRM Salmonella	Final final tests of the method	Fit dance latex OXOID	Fit dance Latex CONFIRM Salmonella	Fit dance tests of the method	colonies colonies	Latex OXOID	Latex CONFIRM Salmonella	Final final	Fit dance	Questionable colonies	Latex OXOID	Latex CONFIRM Salmonella	Final final OXOID	Final final CONFIRM Salmonella	Fit dance
2811	Pellets for		-	-st	-st	-	-st				-			=	=	=						-st			-	-	=
	pigs																									ļ!	
2812	Pellets for pigs	-	-	-st	-st	-	-st				-	-	-	=	=	=						-st			-	-	=
2813	Wheat meal for pigs	+p	+p	+p	+p	+	+p	+	+	+	+	+	+	=	=	=	+p	+	+	+	=	+p	+	+	+	+	=
2814	Wheat meal for pigs	+p	+p	-	-	+	-st				-	-	-	ND	ND	ND	-st			-	ND	+2col	+	+	+	+	=
2821	Wheat meal for pigs	+m	+m	-	-	+	+p	+	+		+	+	+	=	=	=	+p	÷	+	+	=	+p	+	+	+	+	=
2822	Potato cake and pulp	+M	+1/2	-	-	+	+1col	+	+	+	+	+	+	=	-	=				-	ND	-st			-	-	ND
2823	Mix cake	+M	+m	-	-	+	-				-		-	ND	ND	ND	7 .			-	ND	-st			-	-	ND
2824	Pellets for	-	-	-	-	-	-st				-			=	Ŧ	-						-st			-	-	=
2825	pigs Barley for pigs			-st	-st		-st								=	=						-st					=
2826	Pellets for			-01	-31	_	+1col		+	+				PD	PD	PD	-st			-	-	-st			-		_
2020	calves	-	-	-		-	+1001	+	+	Ŧ	Ŧ		Ŧ	FU	FU	FD	-51			-	-	-51			-	-	_
2827	Pellets for pigs	+p	+p	+p	+p	+	+p	+	÷		÷		÷	=	=	=	+p	+	+	+	=	+p	+	+	+	+	=
2828	Dried poultry protein	+p	+p	+p	+p	+	+M	+	÷		÷	+	+	=	=	=	+m	+	+	+	=	+M	+	+	+	+	=
2829	Dried poultry protein	+p	+p	+p	+p	+	+p	+	÷		+	+	+	=	=	=	+p	+	+	+	=	+p	+	+	+	+	=
2830	Dried poultry protein	+p	+p	+p	+p	+	+p	+	+		÷	+	+	=	=	=	+p	+	+	+	=	+p	+	+	+	+	=

SOLABIA

Bold face: contaminated products ni: non-isolated colony

+p: target organism in pure culture +m: target organism in minority NC: non-characteristic on nutrient agar +/-: questionable colony

+M: target organism in majority +st: sterile plate

											EN/	IRONM	ENTAL	SAMP	LES												
		IS	6579 re	eference	method*										IF	RIS Salr	nonella ı	nethoo									
			Characterisit	tic colonies							Sup	plemente	d BPW in	cubated	for 16 h a	t 41.5 °C	2					Suppler	mented	BPW incu	bated for	24 h at 47	1.5 °C
No.	Product	R	VS	MK	TTn			-		IRIS -Re	eading af	ter 24 h at 3					IRIS a	fter stora	ge in BPW f	or 72 h at	4 °C		IRIS	-Reading af	ter 24 h at	37 °C	
Sample		XLD	COMPASS Salmonella	XLD	COMPASS Salmonella	Final	colonies colonies	Latex OXOID	Latex CONFIRM Salmonella	Tests of the method	Final final OXOID	Final final CONFIRM Salmonella	Final final tests of the method	Fit dance latex OXOID	Fit dance Latex CONFIRM Salmonella	Fit dance tests of the method	colonies colonies	Latex OXOID	Latex CONF IRM Salmonella	Final final	Fit dance	Questionable colonies	Latex OXOID	Latex CONFIRM Salmonella	Final final OXOID	Final final CONFIRM Salmonella	Fit dance
2110	Bleeding table wash water	+/-ni/-	+/-(0X+)	-	-	-	-st				-	-	-	=	=	=				•	=	-st			-	-	=
2111	Bleeding table rinse water	+1/2	+M	+M	+M	+	+m	+	+	+	+	+	+	=	=	=	+M	+	+	+	=	+M	+	+	+	+	=
2187	VSM mixer wash water	+p	+р	+р	+p	+	+р	+	+	+	+	+	+	=	=	=	+p	+	+	+	=	+р	+	+	+	+	=
2188	Chicken B cooling water	+p	+p	+p	+p	+	-st				-	-	-	ND	ND	ND	-st		1	-	ND	-st	1	1	-	-	ND
2189	Neck cooling water	-	-	-	-	-	-st				-	-	-	=	=	=						-st	1	1	-	-	=
2190	Polychiller AB 1st body	-	-	-	-	-	-				-	-		=	-	=						-	/	1	-	-	=
2339	cooling water Dairy dust T2 12C	-st	-st	-st	-st		-st							=	_	_						-st					=
	12C Dairy dust T1	-st											-		-	-											=
2340	OH Dairy dust T2		-st	-st	-st	-	-st					· · ·	•									-	-	-	-	-	
2341	7A Dairy dust T1	-st	-st	-st	-st	-	-st					-		-	-	=						-st			-	-	=
2342	OG	-st	-st	-st	-st	-	-st					•	•	=	=	=						-			-	-	=
2359	Dairy dust T1 OG	-st	-st	-st	-st	-	-st					-	-	=	=	=						-st			-	-	=
2360	Dairy dust T2 12B	-st	-st	-st	-st	-	-st				-	•	-	Ŧ	=	=						-st			-	-	=
2361	Dairy dust 12 OD	-	-st	+	+	+	+p	+	+	+	+	+	+	=	=	=	+p	+	+	+	=	+p	+	+	+	+	=
2362	Dairy dust 12 7A	-st	-st	-st	-st	-	-st					-	-	=	=	=						-st			-	-	=
2663	Process water 07/20	+/-m ni/-	-	+/-m ni/-	-	-	-					-	-	=	=	=						-			-	-	=
2664	Process water 09/20	-	-	-	-	-	-				•	-	-	=	=	=						-			-	-	=
2665	Process water 03/20	-	-	-	-	-	+ni/-			$\langle \neg \rangle$	-) -	-	=	=	=						-			-	-	=
2666	Process water 08/20	+/-2col ni/	-	+/-m ni/-	-	-					-	-	-	=	=	=						-			-	-	=
2667	Process water 10/20	+/- m ni/-	-	+/-m ni/-	-	-	•				-	-	-	=	=	=						-			-	-	=
2668	Process water 04/20	-st	-st	-st	-st	-	-st				-	-	-	=	=	=						-st			-	-	=

											ENV	IRONM	ENTAL	SAMP	LES												
		IS	O 6579 r	eference	method [◆]										IF	RIS Salr	nonella r	nethod									
			Characteris	tic colonies							Sup	plemente	d BPW in	cubated	for 16 h a	it 41.5 °C	2					Suppler	mented	BPW incu	bated for	· 24 h at 41	1.5 °C
No.	Product	R۱	/S	MK	ΓTn					IRIS -Re	eading aft	er 24 h at 3					IRIS a	ifter storaç	ge in BPW f	or 72 h at	4 °C		IRIS	-Reading af	ter 24 h at	37 °C	
Sample		XLD	COMPASS Salmonella	XLD	COMPASS Salmonella	Final	colonies colonies	Latex OXOID	Latex CONFIRM Salmonella	Tests of the method	Final final OXOID	Final final CONFIRM Salmonella	Final final tests of the method	Fit dance latex OXOID	Fit dance Latex CONFIRM Salmonella	Fit dance tests of the method	colonies colonies	Latex OXOID	Latex CONFIRM Salmonella	Final final	Fit dance	Questionable colonies	Latex OXOID	Latex CONFIRM Salmonella	Final final OXOID	Final final CONFIRM Salmonella	Fit dance
2669	Process water 02/20	-	-	+/-m ni/-	-	-	-				-	-	-	=	=	=						-			-	-	=
2670	Process water 05/20	-	-	+/-m ni/-	-	-	-				-	-		=	=	=						-			-	-	=
2671	Process water 06/20	+/- m ni/	-	+/-m ni/-	-	-	-				-	-	-	=	=	=				r		-			-	-	=
2672	Process water 01/20	-st	-st	-st	-st	-	-st				-	-	-	=	H	н						-st			-	-	=
2722	Swab - truck before unloading	+m	+m	+m ni/+	+m	+	+m	+	+	+	+	+		=	=	=	+m	+	+	+	=	+m	+	+	+	+	=
2723	Swab - truck after rinsing	+m ni/-	-	-	-	-	-				-		-		н	=					=	-			-	-	=
2724	Swab - necks poly-line	+m	+m	+M	+M	+	-					·	•	ND	ND	ND	-				ND	-			-	-	ND
2725	Swab - stainless steel plate at cutting infeed	-	-	+/-ni/-	-		-				K.			Ŧ	=	=	-				=	-				-	=
2726	Swab - cutting cold room sewer drain	-	-	+/-m ni/-	-	-	-				-	·		=	=	=	-				=	-			-	-	=
2727	Swab - boned ham pallet truck	+m ni/-	-	+/-2col (Citrobacter youngae)	-	-					K.	-		=	=	=	-				=	-			-	-	=
2729	Scalding tank water	+/-M (E. coli)	-	-	-	-				L		·	-	=	=	=	-				=	-			-	-	=
2735	De-nerving table rinse water	+m	+M	+1/2	+M	+	+1/2	+	÷	÷	÷	÷	+	=	=	=	+1/2	+	+	+	=	+M	+	+	+	+	=
2736	De-nerving table wash water	+p	+p	+p	+p	+	-st				-	-	-	ND	ND	ND	-st			-	ND	-st			-	-	ND
2737	Bowl system rinse water	+m	+m	+M	+M	+	+1/2	+	+	+	+	+	+	=	=	=	+m ni/+	+	+	+	=	+1/2	+	+	+	+	=
2738	Bowl machine	+m	+1/2	+m	+m	+	-st				-	-	-	ND	ND	ND	+m ni/+			-	ND	-			-	-	ND

											ENV	IRONM	ENTAL	SAMP	LES												
		IS	O 6579 r	eference	method*										IF	RIS Salr	nonella r	nethod									
			Characterist	tic colonies							Suc	plemente	BPW in	cubated	for 16 h a	t 41.5 °C)					Supple	mented	BPW incu	bated for	24 h at 41	l.5 ℃
No.	Product	R	/S	MK	TTn					IRIS -R		er 24 h at 3						fter storad	e in BPW f	or 72 h at	4 °C			-Reading af			
Sample	Product					Final			Latex	Tests	Final	Final	Final final	Fit	Fit dance	Fit dance			Latex					Latex	Final	Final	
		XLD	COMPASS Salmonella	XLD	COMPASS Salmonella		colonies colonies	Latex OXOID	CONFIRM Salmonella	of the method	final OXOID	final CONFIRM Salmonella	tests of the method	dance latex OXOID	Latex CONFIRM Salmonella	tests of the method	colonies colonies	Latex OXOID	CONFIRM Salmonella	Final final	Fit dance	Questionable colonies	Latex OXOID	CONFIRM Salmonella	final OXOID	final CONFIRM Salmonella	Fit dance
	wash water																				2						
2739	Scalding tank process water	+m	+M	+M	+M	+	+m	+	+	+	+	+	+	=	=	=	+m ni/+	+	-	÷	=	+m	+	+	+	+	=
	Plucker run-																										
2740	off process water	-		+/-m ni/-	-	-	-				-	-	-	=	=	=				-	=	-				-	=
	Polychiller																										
2741	outfeed rinse water	+1/2	+M	+M	+1/2	+	+M	+	+	+	+	+	+	=	=	ľ	+M	+	+	+	=	+р	+	+	+	+	=
2742	Spinchiller process water	-	-	+/-m ni/-	-	-	+m	+	+	+	+	+		PD	PD	PD	+m	+	+	+	PD	+M	+	+	+	+	PD
2793	Swab	+p	+p	+p	+p	+	+p	+	+	+	+	+	+	=	=	=	+p	+	+	+	=	+p	+	+	+	+	=
2794	Swab	-st	-st	-st	-st	-	-st				-	•	-	=	п	=						-st			-	-	=
2795	Swab	+p	+p	+p	+p	+	+p	+	+	+	+	+	+	п	=		+p	+	+	+	=	+p	+	+	+	+	=
2796	Swab	-st	-st	-st	-st	-	-st				-	-	-	=	ł	=						-st			-	-	=
2831	Bowl wash water	+M	+M	+p	+p	+	+p	+	+		+	÷	+	=	=	=	+p	+	+	+	=	+p	+	+	+	+	=
2832	Table wash water	+M	+р	+p	+р	+	+p	+	+		+	÷	+	=	=	=	+р	+	+	+	=	+р	+	+	+	+	=
2833	Drain water	+M	+1/2	+p	+m	+	+m	+	+		+	+	+	E	=	=	+M	+	+	+	=	+M	+	+	+	+	=
2834	Washroom drain water	+M	+p	+p	+p	+	+p	+	+		+	+	+	=	=	=	+p	+	+	+	=	+p	+	+	+	+	=
2835	TA14 workshop sink drain water	+M	+p	+M	+m	+	+p	+weak	+ very weak		÷	+	+	=	=	=	+p	+	+	+	=	+p	+	+ very weak	+	+	=
	TA8 workshop																										
2836	sink drain water	+M	+m	+p	+m	+	+p	+	+		+		+	=	=	=	+p	+	+	+	=	+p	+	+	+	+	=
2837	Process water (scalding tank)	+M	+p	+p	+р	+	+p	+	+		+	+	+	=	=	=	+p	+	+	+	=	+р	+	+	+	+	=
2838	Plucker process water	-	-	+m ni/-	-		+ small	+	+	+	+	+	+	PD	PD	PD	+m	+	+	+	PD	+m	+	+	+	+	PD
2839	Polychiller cooling water	+m 3col	+p	+ni/-		+	+p	+	+	+	+	+	+	=	=	=	+p	+	+	+	=	+p	+	+	+	+	=
2840	Necks cooling water	+p	+p	+p	+p	+	+p	+	+	+	+	+	+	=	=	=	+p	+	+	+	=	+p	+	+	+	+	=
2841	Cooling water	-	-	+ni 3col∕-	-	•	2col ni/+	+	+	+	+	+	+	PD	PD	PD	+2-3col ni/+	+	+	+	PD	+1col ni/+	+	+ very weak	+	+	PD
2842	Cooling water	-	-	+ni/-	-		+m	+	+	+	+	+	+	PD	PD	PD	+m	+	+	+	PD	+m	+	+	+	+	PD

											ENV	IRONME	INTAL	SAMP	LES												
		IS	O 6579 re	eference	method *										IF	RIS Salr	nonella r	nethod									
			Characterist	ic colonies							Sup	plemented	BPW in	cubated	for 16 h a	at 41.5 °C)					Suppler	mented	BPW incul	bated for	24 h at 41	.5 °C
No.	Product	R	/S	MK	TTn					IRIS -Re	eading aft	er 24 h at 37	°C				IRIS a	fter storag	je in BPW f	or 72 h at	4 °C		IRIS	-Reading aff	er 24 h at	37 °C	
Sample		XLD	COMPASS Salmonella	XLD	COMPASS Salmonella	Final	colonies colonies	Latex OXOID	Latex CONFIRM Salmonella	Tests of the method	Final final OXOID	Final final CONFIRM Salmonella	Final final tests of the method	Fit dance latex OXOID	Fit dance Latex CONFIRM Salmonella	Fit dance tests of the method	colonies colonies	Latex OXOID	Latex CONFIRM Salmonella	Final final	Fit dance	Questionable colonies	Latex OXOID	Latex CONFIRM Salmonella	Final final OXOID	Final final CONFIRM Salmonella	Fit dance
2843	Swab - truck after disinfection	-st	-st	-st	-st	-	+p	+	+	÷	+	+	+	PD	PD	PD	+p	÷	+	•	PD	+p	+	+	+	+	PD
2844	Swab - damp brushing machine	+m	+m	+M	+M	+	+M	+	+	+	+	+	+	=	=	=	+m	+	÷	+	=	+m	+	+	+	+	=
2845	Swab - cutting table	+p	+p	+p	+M	+	+p	+	+	+	+	+	+	=	=	H	+р	+	+	+	=	+p	+	+	+	+	=
2846	Swab - TA8 preparation table	+p	+M	+p	+M	+	+p	+ weak	+ very weak	+	+	+		=	=	=	+p	+	+	+	=	+p	+	+ very weak	+	+	=
2847	Swab - TA16 preparation table	+p	+p	+p	+M	+	+p	+ weak	+ very weak	+	÷	+	÷	н	Ξ	-	+p	+	+	+	=	+p	+	-	+	-	=
2848	Swab - dish washing tank	+p	+p	+p	+p	+	+p	+	+	+	÷	+	÷		=	=	+p	+	+	+	=	+p	+	+	+	+	=
2895	Sampling sink drain water	-	-	-	-	-	-						·	=	=	=						-			-	-	=

ADRIA Développement Summary report (Version 0) IRIS Salmonella 06 July 2015

SOLABIA

		MEAT PRC	DUCTS				
				Read plates	s after storage at 2-	-8 °C	
Spl. no.	Product	Before storage	After storage	Latex OXOID	Latex CONFIRM Salmonella	Final result	Agreement Before/After storage
1454	Lean pork	-	-			-	=
1455	Stuffing	-	-			-	=
1456	Pork sausage	+	+	+	+	+	=
1457	Chorizo	-	-			-	=
1458	Provençale style pork ribs	+	+	+	+	+	=
1459	Lean pork	-	-			-	=
1460	Pork fillet	-	-			-	=
1461	Ground chicken meat	+/-1col	+1col	+	+	+	=
1462	Chipolatas	-	-			-	=
1463	Pork tongue	-	-			-	=
1464	Pig's caul	+	+	+	+	+	=
1465	Pork rind	-	-			-	=
1466	Pork tongue		-			-	=
1467	Minced pork meat		-			-	=
1468	Shoulder fat	-	-			-	=
1469	Pork trimming	-				-	=
1470	Pig's caul	-	-			-	=
1471	Pork fillet	-	-			-	=
1472	Pork tongue	-	-			-	=
1473	Pork fillet		-			-	=
1474	Red meat		-			-	=
1475	Red meat	+M	+M	+	+	+	=
1476	Pig's caul		-			-	=
1477	Provençale style pork ribs	+M	+M	+	+	+	=
1754	Hare meat	-	-			-	=
1755	Ground turkey meat	+M	+M	+	+	+	=
1756	Ground turkey loin	-	-			-	=
1757	Marinated fillet (poultry)	-	-			-	=
1758	Coarse chicken meat	-	-			-	=
1759	Chicken meat	-	-			-	=
1760	Ground turkey meat	+m	+m	+	+	+	=
1761	Ground white meat	+m	+m	+	+	+	=
1762	Ground lean beef	+M	+M	+	+	+	=
1763	VS	-	-			-	=
1764	Ground chicken meat	-	-			-	=
veloppen report (V <i>onella</i>	nent /ersion 0)	69/98					06 Ju

		MEAT PRC	DUCTS				
				Read plates	s after storage at 2-	-8 °C	
Spl. no.	Product	Before storage	After storage	Latex OXOID	Latex CONFIRM Salmonella	Final result	Agreement Before/After storage
1765	Veal délice with shallots	-	-			-	=
1766	Duckling stuffed with mushrooms	-	-			-	=
1767	Chicken fillet skin	-	-			-	=
1768	Ground chicken meat	+m	+m	+	+	+	=
1769	VS2	-	-			-	=
1770	Ground chicken meat	-	-			-	=
1771	Minced beef	+M	+M	+	+	+	=
1772	Minced pork meat	+M	+M	+	+	+	=
1773	Minced beef, 5% fat	+p	+p	+	+	+	=
1774	Minced beef, 5% fat	+p	+p	+	+	+	=
1775	Minced beef	-	-			-	=
1776	Minced heifer meat	+p	+p	+	+	+	=
1777	Minced beef, 5% fat	+p	+p	+	+	+	=
2211	Merguez		-			-	=
2212	Dried sausage	-	-			-	=
2213	sausage					-	=
2214	Chipolatas with herbs	-	-			-	=
2215	Sausage meat	+	+	+	+	+	=
2216	Chipolatas	+	+	+	+	+	=
2217	Sausage	-	-			-	=
2218	Dried sausage	-st	-st			-	=
2219	Toulouse sausage	+	+	+	+	+	=
2220	Tomato stuffing		-			-	=
2221	Turkey cutlet	-	-			-	=
2222	Ground chicken meat	-	-			-	=
2223	Plain poultry skewer	+	+	+	+	+	=
2297	Pool of sausage	-	-			-	=
2298	Chipolatas	-	-			-	=
2299	Sausage meat	-	-			-	=
2300	Ground chicken meat	+	+	+	+	+	=
2301	Ground turkey meat	-	-			-	=
2343	Bacon	+p	+p	+	+	+	=
2344	Bacon	+p	+p	+	+	+	=
2593	Turkey cutlet	- -	- -			-	=
eloppen		70/98			<u>.</u>		06 Ju

		DAIRY PRO	DUCTS				
				Read plates	s after storage at 2	-8 °C	
Spl. no.	Product	Before storage	After storage	Latex OXOID	Latex CONFIRM Salmonella	Final result	Fit Before/After storag
2163	Fresh whole cream	+p	+р	+	+	+	=
2164	Gros lait	+p	+р	+	+	+	=
2165	Buttermilk	+р	+р	+	+	+	=
2166	Drinking yoghurt	+p	+p	+	+	+	=
2171	Saint Félicien made with raw milk	-	-			-	=
2172	Goat's cheese	+ M pale	+M	+	+	+	=
2173	Brie de Meaux made with raw milk	-	-			-	=
2174	Reblochon made with raw milk	-	-			-	=
2175	Beaufort made with raw milk	+M	+M	+	+	+	=
2176	Gruyère made with raw milk	+p	+p	+	+	+	=
2177	Comté made with raw milk	+M	+M		+	+	=
2178	Laguiole made with raw milk	+m	+m	+	+	+	=
2203	Tiramisu Italian recipe	+p	+p	+	+	+	=
2204	Tiramisu	+p	+p	+	+	+	=
2205	Tiramisu Italian recipe	-	-			-	=
2206	Tiramisu		-			-	=
2226	Buttermilk	-	-			-	=
2227	Fermented milk	-st	-st			-	=
2318	Powdered skim milk	-st	-st			-	=
2319	Powdered skim milk	-st	-st			-	=
2320	Powdered semi-skim milk	-st	-st			-	=
2329	Raw milk	+p	+р	+	+	+	=
2330	Raw milk	+p	+р	+	+	+	=
2331	Raw milk	+p	+p	+	+	+	=
2332	Raw milk	+p	+p	+	+	+	=
2333	Raw milk	-	-			-	=
2334	Raw milk	-	-			-	=
2335	Raw milk	-	-			-	=
2336	Raw milk	-	-			-	=
2355	Coconut ice-cream	+р	+р	+	+	+	=
2356	Iced nougat	+p	+p	+	+	+	=
2357	Vanilla ice-cream	+p	+p	+	+	+	=
2358	Nougat ice-cream	+M	+M	+	+	+	=
<i>r</i> elopper report (V onella	nent /ersion 0)	71/98					06 Ju

		DAIRY PRO	DUCTS				
				Read plates	s after storage at 2	-8 °C	
Spl. no.	Product	Before storage	After storage	Latex OXOID	Latex CONFIRM Salmonella	Final result	Fit Before/After storage
2386	Raw milk	+ni	+ni/+	-	-	+(Test ref.)	=
2387	Raw milk	-	-			-	=
2388	Raw milk	-	-			-	=
2389	Raw milk	+	+p	-	-	+(Test ref.)	=
2390	Raw milk	+	+р	+	+	+	Ξ
2484	Selles sur cher	-	-			-	=
2485	Saint Marcellin	-	-			-	=
2486	Camembert made with raw milk	-	-			-	=
2487	Morbier made with raw milk	-	-			-	=
2492	Saint Nectaire	-	-			-	=
2706	Raw milk T33	+m ni	+m ni/+	+	-	+	=
2707	Raw milk T32	+m ni	+m ni/+	+ weak	-	+	=
2708	Raw milk T36	+p	+p	+	+	+	=
2709	Reblochon made with raw milk	+m ni/	+m ni/+	+	+	+	=
2710	Saint Félicien made with raw milk	+1/2	+1/2	+	+	+	=
2711	Bethmale made with raw milk	+M	+M	+	+	+	=
2743	Saint Marcellin	+1col ni	+1col ni	+	-	+	=
2744	Semi-skim powdered milk	-st	-st			-	=
2745	Whole powdered milk	+p 5col	+p 5col	+	+	+	=
2746	Skimmed powdered milk	-st	-st			-	=
2849	Raw milk T35	-	-			-	=
2850	Raw milk T37	-	-			-	=
2851	Raw milk T39	-	-			-	=
2852	Whole powdered milk	-st	-st			-	=
2853	Organic skimmed powdered milk	-st	-st			-	=
2854	Skimmed powdered milk	-st	-st			-	=
2855	Vanilla ice-cream	-	-			-	=
2856	Nougat ice-cream	-	-			-	=
2857	Saint Félicien made with raw milk	-	-			-	=
2864	Camembert made with raw milk	-	-			-	=
				Read plates	s after storage at 2-	-8 °C	
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Spl. no.	Product	Before storage	After storage	Latex OXOID	Latex CONFIRM Salmonella	Final result	Fit Before/After storage
2099	Cauliflower	+р	+р	+	+	+	=
2100	Sliced vegetables	+р	+р	+	+	+	=
2101	Salmon and scallop au gratin	-st	-st			-	=
2102	Fresh cod	+p	+р	+	+	+	=
2103	Shrimp	+p	+р	+	+	+	=
2104	Salt cod steak	+p	+р	+	+	+	=
2105	Scallops	+p	+р	+	+	+	=
2106	Fresh whiting	+M	+M	+	+	+	=
2107	Fresh cod	+p	+p	+	+	+	=
2108	Seafood cocktail	+p	+p	+	+	+	=
2116	Peeled cooked shrimp	+p	+p	+	+	+	=
2117	Alaska pollack fillet	+p	+p	+	+	+	=
2118	Albacore tuna	+p	+p	+	+	+	=
2119	Alaska pollack	+p	+p	+	+	+	=
2179	Pear tart	-st	-st			-	=
2180	Bulgur and vegetable salad	-st	-st			-	=
2181	Ratatouille	-st	-st			-	=
2182	Sliced carrots	-st	-st			-	=
2191	Brandade	+p	+p	+	+	+	=
2192	Seafood and pollack duo with rice	+p	+p	+	+	+	=
2193	Cod fillets	+p	+p	+	+	+	=
2194	Alaska pollack fillets	+p	+р	+	+	+	=
2302	Frozen peas and carrots	-st	-st			-	=
2303	White cabbage	-st	-st			-	=
2304	Leeks	-st	-st			-	=
2305	Frozen cauliflower	-st	-st			-	=
2306	Frozen mixed vegetables	-st	-st			-	=
2307	Frozen ratatouille vegetables	-st	-st			-	=
2308	Frozen leek	-st	-st			-	=
2309	Frozen mixed vegetables	-	-			-	=
2310	Frozen shrimp	-st	-st			-	=
2311	Frozen pollack fillet	-st	-st			-	=
2312	Frozen pollack steaks	-st	-st			-	=
2313	Frozen cod	-st	-st			-	=
2314	Frozen pollack	-st	-st			-	=
	nent /ersion 0)	73/98					06 Ju

							SOLA
	VEGETABLES, F	ISHERY PRODU	ICTS AND MISC	ELLANEOUS			
				Read plates	after storage at 2	-8 °C	
Spl. no.	Product	Before storage	After storage	Latex OXOID	Latex CONFIRM Salmonella	Final result	Fit Before/After storage
2315	Fresh whiting	-st	-st			-	=
2488	Pork and vegetable gratin	-st	-st			-	=
2489	Salmon and scallop au gratin	-st	-st			-	=
2490	Endives with ham	-st	-st			-	=
2491	Lasagna Bolognaise	-st	-st			-	=
2594	Cooked prawns	-	-			-	=
2595	Crayfish tails	-st	-st			-	=
2596	Tuna steak	-	-			-	=
2597	Squid rings	-st	-st			-	=
2603	Seafood and rice duo	+	+	+	+	+	=
2604	Brandade	+	+	+	+	+	=
2605	Raw scallop cake	-	-			-	=
2606	Salmon and scallop au gratin	+	+	+	+	+	=
2675	Frozen mussels					-	=
2712	Eggplant gratin	+p	+p	+	+	+	=
2713	Cabbage gratin	+р	+p	+	+	+	=
2714	Stuffed tomato style gratin	+M	+M	+	+	+	=
2715	Fish and rice with vegetables	+р	+p	+	+	+	=
2716	Frozen ratatouille vegetables	+p	+р	+	+	+	=
2717	Southern stir-fry	+p	+р	+	+	+	=
2718	Parisian stir-fry	+M	+M	+	+	+	=
2719	Vegetable and mushroom stir-fry	+p	+p	+	+	+	=
2720	Frozen ratatouille vegetables	+p	+р	+	+	+	=
2721	Southern stir-fry	+p	+р	+	+	+	=
2858	Frozen chopped spinach	-st	-st			-	=
2859	Frozen leek	-st	-st			-	=



		EGG PRO	DUCTS				
				Read plates	s after storage at 2-	·8 °C	
Spl. no.	Product	Before storage	After storage	Latex OXOID	Latex CONFIRM Salmonella	Final result	Fit Before/After storage
2159	Egg cream	+р	+р	+	+	+	=
2160	Semolina pudding	+р	+р	+	+	+	=
2161	Leek quiche	+р	+р	+	+	+	=
2162	Vegetable quiche	+p	+p	+	+	+	=
2167	Fine mayonnaise with lemon	+р	+p	+	+	+	=
2168	Plain mayonnaise	-st	-st			-	=
2169	Fresh mayonnaise	+p	+p	+	+	+	=
2170	Pasta salad with salmon and mayonnaise	+m	+m	+	+	+	=
2207	Mayonnaise with mustard	+p	+p	+	+	+	=
2208	Fine mayonnaise	+p	+p	+	+	+	=
2209	Mayonnaise with olive oil	+p	+p	+	+	+	=
2210	Mayonnaise with old style mustard	+p	+p	+	+	+	=
2228	Egg cream	-st	-st			-	=
2229	Semolina pudding	-st	-st			-	=
2230	Old style mustard	-st	-st			-	=
2231	Mayonnaise	-st	-st			-	=
2232	Mayonnaise with olive oil	-st	-st			-	=
2233	Leek tart	-st	-st			-	=
2234	Powdered egg white	-st	-st			-	=
2345	Whole powdered egg	-st	-st			-	=
2346	Whole powdered egg	-st	-st			-	=
2347	Whole powdered egg	-st	-st			-	=
2348	Whole powdered egg	-st	-st			-	=
2349	Powdered egg white	+p	+p	+	+	+	=
2350	Powdered egg white	+p	+p	+	+	+	=
2351	Powdered egg white	+p	+p	+	+	+	=
2352	Powdered egg white	+p	+p	+	+	+	=
2353	Whole powdered egg	-st	-st			-	=
2354	Powdered egg white	-st	-st			-	=
2371	Whole liquid egg portion	+ni	+ni/+	+	+ very weak	+	=
2372	Whole liquid egg portion	-	-		,	-	=
2373	Liquid egg yoke portion	-	-			-	=
2374	Liquid egg yoke portion	-	-			-	=
2375	Liquid egg yoke portion	-	-			-	=
2376	Liquid egg white portion	-	-			-	=
elopper eport (V		75/98					06 Ju

		EGG PRO	DUCTS				
				Read plates	s after storage at 2-	-8 °C	
Spl. no.	Product	Before storage	After storage	Latex OXOID	Latex CONFIRM Salmonella	Final result	Fit Before/After storage
2377	Liquid egg white portion	-	-			-	=
2378	Liquid egg white portion	-	-			-	=
2379	Liquid egg white portion	-	-			-	=
2380	Liquid egg white portion	-	-			-	=
2381	Mayonnaise	-	+pale	-	-	-(PPNC)	=
2382	Mayonnaise	-	-			-	=
2383	Mayonnaise	+ni	+ni/+	+	+	+	=
2384	Mayonnaise	-	-			-	=
2385	Mayonnaise	-	-			-	=
2500	Mayonnaise with lemon	-st	-st			-	=
2501	Mayonnaise with old style mustard	-st	-st			-	=
2502	Traditional mayonnaise	-st	-st			-	=
2503	Liquid egg yoke portion	+pale	+pale		-	-	=
2504	Liquid egg yoke portion	+m	+m	+	+	+	=
2505	Liquid egg yoke portion	-	-			-	=
2506	Liquid egg portions	+m	+m	+	+	+	=
2507	Liquid egg portions	-	-			-	=
2673	Mayonnaise	-st	-st			-	=
2674	Mayonnaise	-st	-st			-	=
2747	Pasteurised whole liquid egg portion	+p	+p	+	+	+	=
2748	Pasteurised whole liquid egg portion	+p 10col	+p 10col	+	+	+	=
2749	Pasteurised whole liquid egg portion	+p	+p	+	+	+	=
2750	Pasteurised liquid egg yoke portion	+p	+p	+	+	+	=
2751	Pasteurised liquid egg yoke portion	+p	+p	+	+	+	=
2752	Flan preparation	+p	+p	+	+	+	=
2753	Custard preparation	+p	+p	+	+	+	=
2754	Crème brûlée preparation	+p	+p	+	+	+	=
2791	Powder for custard cream	+p	+p	+	+	+	=
2792	Egg cream powder	-st	-st			-	=

Product d as raw material	Before storage	After storage	Read plates	after storage at 2- Latex CONFIRM		Fit
	storage	After storage	-	Latex CONFIRM		Fit
1 as raw material				Salmonella	Final result	Before/After storage
1 as raw material	-	-			-	=
	-	-	-	-	-	=
rom abattoir for processing	+M	+M	+	+	+	=
ed for lard	+M	+M	+	+	+	=
dried plasma and haemoglobin manufacture	-	-			-	=
s A	+p	+р	+	+	+	=
s B	+p	+p	+	+	+	=
	+p	+p	+	+	+	=
	+p	+p	+	+	+	=
s A	+p	+p	+	+	+	=
s B	+p	+p	+	+	+	=
	+p	+p	+	+	+	=
		-			-	=
ogs		-			-	=
2	-st	-st			-	=
3	-st	-st			-	=
	-st	-st			-	=
	-st	-st			-	=
	-st	-st			-	=
	-st	-st			-	=
		-			-	=
		-			-	=
animals	-	-			-	=
	-	-			-	=
r animals	-	-			-	=
	-st	-st			-	=
	-st	-st			-	=
ogs	-	-			-	=
	-st	-st			-	=
					-	=
					-	=
h					-	=
			+	+	+	=
					-	=
Imash						=
js	h	-st -st -st -st + h -st	-st -st -st -st -st -st + + sh -st	-st -st -st -st -st -st -st -st + + + + -st -st	st st st st st st st st ++ ++ + ++ + +- st st	-st -st - -st -st - -st -st - + + + +

		ANIMAL F	EEDS				
				Read plates	after storage at 2-	·8 °C	
Spl. no.	Product	Before storage	After storage	Latex OXOID	Latex CONFIRM Salmonella	Final result	Fit Before/After storage
2610	Beef-flavoured mash	+	+	+	+	+	=
2728	Concentrated plasma	+m	+m	+	+	+	=
2730	Kidneys (raw material for animal feed)	+m ni	+m	+	+	+	=
2731	Skirt (raw material for animal feed)	+1/2	+1/2	+	+	+	=
2732	Category 3 material	+m	+m	+	+	+	=
2733	Bleeding wound	+m	+m	-		-(OX+)	=
2734	Pork temple (raw material for animal feed)	-	-			-	=
2797	Rape, sunflower and soya cake	-	-			-	=
2798	Pellets for pigs	-st	-st			-	=
2799	Pellets for calves	-st	-st			-	=
2800	Pellets for pigs	-st	-st			-	=
2801	Soya cakes for calves	+p	+p	+	+	+	=
2802	Wheat meal for pigs	-st	-st			-	=
2803	Meal for poultry	-st	-st			-	=
2804	Meal for poultry	-st	-st			-	=
2805	Soya cakes for calves	+p	+p	+	+	+	=
2806	Rape, sunflower and soya cake	-st	-st			-	=
2807	Rape, sunflower and soya cake	-st	-st			-	=
2808	Meal for poultry	+p	+p	+	+	+	=
2809	Pellets for pigs	-st	-st			-	=
2810	Pellets for pigs	-st	-st			-	=
2811	Pellets for pigs	-st	-st			-	=
2812	Pellets for pigs	-st	-st			-	=
2813	Wheat meal for pigs	+p	+р	+	+	+	=
2814	Wheat meal for pigs	-st	-st			-	=
2821	Wheat meal for pigs	+p	+р	+	+	+	=
2822	Potato cake and pulp	+/-1col	+/-1col	-	-	-	=
2823	Mix cake	-	-			-	=
2824	Pellets for pigs	-st	-st			-	=
2825	Barley for pigs	-st	-st			-	=
2826	Pellets for calves	-st	-st			-	=
2827	Pellets for pigs	+р	+р	+	+	+	=
2828	Dried poultry protein	+M	+M	+	+	+	=
2829	Dried poultry protein	+р	+р	+	+	+	=
2830	Dried poultry protein	+р	+р	+	+	+	=
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				Read plates	after storage at 2	-8 °C	
Spl. no.	Product	Before			Latex CONFIRM		Fit
		storage	After storage	Latex OXOID	Salmonella	Final result	Before/After storag
2110	Bleeding table wash water	-st	-st			-	=
2111	Bleeding table rinse water	+M	+M	+	+	+	=
2187	VSM mixer wash water	+р	+р	+	+	+	=
2188	Chicken B cooling water	-st	-st			-	=
2189	Neck cooling water	-st	-st			-	=
2190	Polychiller AB 1st body cooling water	-	-			-	=
2339	Dairy dust T2 12C	-st	-st			-	=
2340	Dairy dust T1 OH	-st	-st			-	=
2341	Dairy dust T2 7A	-st	-st		•	-	=
2342	Dairy dust T1 OG	-st	-st			-	=
2359	Dairy dust T1 OG	-st	-st			-	=
2360	Dairy dust T2 12B	-st	-st			-	=
2361	Dairy dust T2 OD	+p	+p	+	+	+	=
2362	Dairy dust T2 7A	-st	-st			-	=
2663	Process water 07/20	-				-	=
2664	Process water 09/20		+pale (E. coli)	-	-	-(PPNC)	¥
2665	Process water 03/20	-				-	=
2666	Process water 08/20	-	-	-	-	-	=
2667	Process water 10/20	-	-			-	=
2668	Process water 04/20	-st	-st			-	=
2669	Process water 02/20	-	-			-	=
2670	Process water 05/20	-	-			-	=
2671	Process water 06/20		-			-	=
2672	Process water 01/20	-st	-st			-	=
2722	Swab - truck before unloading	+m	+m	+	+	+	=
2723	Swab - truck after rinsing	-	-			-	=
2724	Swab - necks poly-line	-	-			-	=
2725	Swab - stainless steel plate at cutting infeed	-	-			-	=
2726	Swab - cutting cold room sewer drain	-	-			-	=
2727	Swab - boned ham pallet truck	-	-			-	=
2729	Scalding tank water	-	-			-	=
2735	De-nerving table rinse water	+1/2	+1/2	+	+	+	=
2736	De-nerving table wash water	-st	-st			-	=
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	E	NVIRONMENT	AL SAMPLES				
				Read plates	s after storage at 2	-8 °C	
Spl. no.	Product	Before storage	After storage	Latex OXOID	Latex CONFIRM Salmonella	Final result	Fit Before/After storage
2737	Bowl system rinse water	+1/2	+1/2	+	+	+	=
2738	Bowl machine wash water	-st	-st			-	=
2739	Scalding tank process water	+m ni	+m ni/+	+	+	+	=
2740	Plucker run-off process water	-	-			-	=
2741	Polychiller outfeed rinse water	+M	+M	+	+	+	=
2742	Spinchiller process water	+m	+m	+	+	+	=
2793	Swab	+p	+p	+	+	+	=
2794	Swab	-st	-st			-	=
2795	Swab	+p	+p	+	+	+	=
2796	Swab	-st	-st			-	=
2831	Bowl wash water	+p	+p	+	+	+	=
2832	Table wash water	+p	+p	+	+	+	=
2833	Drain water	+m	+m	+	+	+	=
2834	Washroom drain water	+p	+p	+	+	+	=
2835	TA14 workshop sink drain water	+p	+p	+	+	+	=
2836	TA8 workshop sink drain water	+p	+p	+	+	+	=
2837	Process water (scalding tank)	+p	+p	+	+	+	=
2838	Plucker process water	+ small	+ small	+	+	+	=
2839	Polychiller cooling water	+p	+p	+	+	+	=
2840	Necks cooling water	+p	+p	+	+	+	=
2841	Cooling water	+2col	+2col	+	+	+	=
2842	Cooling water	+m	+m	+	+	+	=
2843	Swab - truck after disinfection	+p	+p	+	+	+	=
2844	Swab - damp brushing machine	+M	+M	+	+	+	=
2845	Swab - cutting table	+p	+p	+	+	+	=
2846	Swab - TA8 preparation table	+p	+p	+	+	+	=
2847	Swab - TA16 preparation table	+p	+p	+	+	+	=
2848	Swab - dish washing tank	+p	+p	+	+	+	=
2895	Sampling sink drain water	-	-			-	=
			·				

Appendix 5 – – Artificial sample contamination (Extension study – 2014)

				culation			Overall
Spl.	Product	Stra	in	Injury	Injury		result
no.		Reference	Origin	protocol	measurement	Inoculation level	1/10 dilution
4918	Cakes for animals	S. Agona A00V038	Animal feed	TT 8 min 156 °C	1.43	6-12-4-11-5 (7.6)	+
4919	Poultry meat-based animal protein	S. agona A00V038	Animal feed	TT8 min /56 °C	1.43	6-12-4-11-5 (7.6)	+
4920	Tuna/salmon/vegetable dried cat food	S. agona A00V038	Animal feed	TT 8 min /56 °C	1.43	6-12-4-11-5 (7.6)	+
4923	Dog biscuits stuffed with meat	S. agona A00V038	Animal feed	TT 8 min /56 °C	1.43	6-12-4-11-5 (7.6)	+
3998	Hypoallergenic powdered formula milk	S. anatum Ad1166	Dairy product	TT 8mn/56 °C	0.46	7-8-12-9-4 (9.4)	+
4002	Milk protein	S. anatum Ad1166	Dairy product	TT 8mn/56 °C	0.46	7-8-12-9-4 (9.4)	+
2355	Powdered milk with thick formula probiotics (Bifidobacteria, lactic ferments)	S. anatum Ad298	Powdered milk	TT 8mn/56 °C	>2.80	6-6-6-4-7 (5.8)	-
2357	Powdered milk with probiotics (Bifidobacteria, lactic ferments)	S. anatum Ad298	Powdered milk	TT 8mn/56 °C	>2.80	6-6-6-4-7 (5.8)	-
2359	Powdered milk without probiotics	S. anatum Ad298	Powdered milk	TT 8mn/56 °C	>2.80	6-6-6-4-7 (5.8)	+
2361	Hypoallergenic powdered milk	S. anatum Ad298	Powdered milk	TT 8mn/56 °C	>2.80	6-6-6-4-7 (5.8)	+
4907	Duck feed	S. braenderup F286	Animal feed	TT 8 min /56 °C	1.53	6-10-5-2-2 (5.0)	+
4912	Facility outfeed meal	S. braenderup F286	Animal feed	TT8 min /56 °C	1.53	6-10-5-2-2 (5.0)	+
4917	Broken animal biscuits	S. braenderup F286	Animal feed	TT8 min /56 °C	1.53	6-10-5-2-2 (5.0)	-
4922	Poultry/rice sterilised cat food	S. braenderup F286	Animal feed	TT8 min /56 °C	1.53	6-10-5-2-2 (5.0)	+
5119	Dried dog food	S. cerro Ad689	Dried poultry protein	TT8 min /56 °C	0.70	6-12-8-6-4(7.2)	+
5123	Dried dog food (poultry, vegetables, cereals)	S. cerro Ad689	Dried poultry protein	TT8 min /56 °C	0.70	6-12-8-6-4(7.2)	+
4910	Pheasant-partridge feed	S. derby 630	Animal feed	TT8 min /56 °C	1.17	12-14-13-13-13 (13.0)	+
4915	Milk premix	S. derby 630	Animal feed	TT8 min /56 °C	1.17	12-14-13-13-13 (13.0)	-

				oculation			Overa
Spl.	Product	Stra	in	Injury	Injury		result
no.		Reference	Origin	protocol	measurement	Inoculation level	1/10 dilutio
916	Wheat starch	S. derby 630	Animal feed	TT 8 min /56 °C	1.17	12-14-13-13-13 (13.0)	+
5124	Dried puppy food (chicken, rice)	S. derby 630	Animal feed	TT 8 min /56 °C	0.81	7-8-5-7-7(6.8)	+
1239	Hypoallergenic powdered formula milk	S. dublin Ad531	Raw milk cheese	TT 8mn/56 °C	0.77	5-12-7-13-7 (8.8)	+
3994	Powdered formula milk with 0.1% lactic ferments (S. thermophilus, Lactobacillus reuteri DSM17938)	S. duisburg Ad1812	Milk	TT 8mn/56 °C	0.49	11-12-6-4-7 (8.0)	+
4000	Whey protein	S. duisburg Ad1812	Milk	TT 8mn/56 °C	0.49	11-12-6-4-7 (8.0)	+
121	Mild whey	S. duisburg Ad1812	Milk	TT 8mn/56 °C	1.75	12-15-11-11-9 (11.6)	+
122	Mild whey	S. duisburg Ad1812	Milk	TT 8mn/56 °C	1.75	12-15-11-11-9 (11.6)	-
123	Whey	S. duisburg Ad1812	Milk	TT 8mn/56 °C	1.75	12-15-11-11-9 (11.6)	-
1124	Whey	S. duisburg Ad1812	Milk	TT 8mn/56 °C	1.75	12-15-11-11-9 (11.6)	-
6005	Dried alfalfa	S. enterica 13,23:-:- Ad1847	Animal feed	TT 8 min /56 °C	1.09	6-8-10-9-12 (9.0)	-
5006	Dairy cow feed	S. enterica 13,23:-:- Ad1847	Animal feed	TT 8 min /56 °C	1.09	6-8-10-9-12 (9.0)	+
5010	Sheep feed	S. enterica 13,23:-:- Ad1847	Animal feed	TT 8 min /56 °C	1.09	6-8-10-9-12 (9.0)	-
5013	Rabbit feed	S. enterica 13,23:-:- Ad1847	Animal feed	TT 8 min /56 °C	1.32	8-8-10-9-7 (8.4)	-
5004	Maize dregs	S. enterica 18:-:- Ad1846	Animal feed	TT 8 min /56 °C	1.20	6-11-8-8-9 (8.4)	+
5009	Cattle feed, 28% protein	S. enterica 18:-:- Ad1846	Animal feed	TT 8 min /56 °C	1.20	6-11-8-8-9 (8.4)	+
5011	Duck feed	S. enterica 18:-:- Ad1846	Animal feed	TT 8 min /56 °C	1.20	6-11-8-8-9 (8.4)	-
5002	Bran	S. enterica 6,7:-:- Ad1844	Animal feed	TT 8 min /56 °C	1.32	8-8-10-9-7 (8.4)	+
5003	Sow feed	S. enterica 6,7:-:- Ad1844	Animal feed	TT 8 min /56 °C	1.32	8-8-10-9-7 (8.4)	-
5008	Ruminant feed	S. enterica 6,7:-:- Ad1844	Animal feed	TT 8 min /56 °C	1.32	8-8-10-9-7 (8.4)	-
999	Hypoallergenic powdered formula milk	S. houtenae Ad1834	Milk	TT 8mn/56 °C	1.02	11-9-9-8-7 (8.8)	-
003	Casein-rennet	S. houtenae Ad1834	Milk	TT 8mn/56 °C	1.02	11-9-9-8-7 (8.8)	+

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				Inoculation			Overal
Spl.	Product	S	otrain	Injury	Injury		result
no.		Reference	Origin	protocol	measurement	Inoculation level	1/10 dilutio
997	Hypoallergenic powdered formula milk	S. indiana Ad174	Dairy product	TT 8mn/56 °C	0.59	4-10-10-3-7 (6.8)	+
001	Milk protein	S. indiana Ad174	Dairy product	TT 8mn/56 °C	0.59	4-10-10-3-7 (6.8)	+
1904	Piglet feed	S. infantis 179	Animal feed	TT 8 min /56 °C	1.88	3-5-3-4-4 (3.8)	-
906	Guinea fowl finishing feed	S. infantis 179	Animal feed	TT 8 min /56 °C	1.88	3-5-3-4-4 (3.8)	+
1911	Pig feed	S. infantis 179	Animal feed	TT 8 min /56 °C	1.88	3-5-3-4-4 (3.8)	-
925	Beef/cereal flavoured dried dog food	S. infantis 179	Animal feed	TT 8 min /56 °C	1.88	3-5-3-4-4 (3.8)	+
3729	Milk protein	S. infantis 401B	Raw milk	TT 8mn/56 °C	1.25	2-6-4-5-7 (4.8)	+
733	Sodium caseinate	S. infantis 401B	Raw milk	TT 8mn/56 °C	1.57	2-0-1-2-0 (1.0)	+
913	Fish meal	S. kedougou Ad1502	Animal feed	TT 8 min /56 °C	1.51	5-6-8-5-6 (6.0)	+
914	Feed premix	S. kedougou Ad1502	Animal feed	TT 8 min /56 °C	1.51	5-6-8-5-6 (6.0)	-
921	Chicken-flavoured dried young cat food	S. kedougou Ad1502	Animal feed	TT 8 min /56 °C	1.51	5-6-8-5-6 (6.0)	+
924	Dried dog food	S. kedougou Ad1502	Animal feed	TT 8 min /56 °C	1.51	5-6-8-5-6 (6.0)	+
903	Pig feed	S. livingstone F104	Animal feed	TT 8 min /56 °C	1.52	4-5-2-3-6 (4.0)	-
905	Quail finishing feed	S. livingstone F104	Animal feed	TT 8 min /56 °C	1.52	4-5-2-3-6 (4.0)	+
908	Sheep-lamb feed	S. livingstone F104	Animal feed	TT 8 min /56 °C	1.52	4-5-2-3-6 (4.0)	+
909	Horse feed	S. livingstone F104	Animal feed	TT 8 min /56 °C	1.52	4-5-2-3-6 (4.0)	+
041	Powdered infant formula milk	S. mbandaka Ad1483	Raw milk	TT 8mn/56 °C	0.70	1-2-0-1-0(0.8)	-
731	Milk protein isolates	S. mbandaka Ad1722	Raw milk	TT 8mn/56 °C	0.80	3-3-2-2-1 (2.2)	+
736	Hypoallergenic powdered milk	S. mbandaka Ad1722	Raw milk	TT 8mn/56 °C	0.80	3-3-2-2-1 (2.2)	+
992	Powdered skim milk	S. mbandaka Ad1810	Cheese	TT 8mn/56 °C	0.67	4-4-4-5-7 (4.8)	+
995	Powdered formula milk	S. mbandaka Ad1810	Cheese	TT 8mn/56 °C	0.67	4-4-4-5-7 (4.8)	+
732	Milk protein	S. meleagridis 505	Raw milk	TT 8mn/56 °C	1.45	0-1-1-2 (1.0)	-

							SOLA
			Inc	culation			Overall
Spl.	Product	Str	ain	Internet	Internet		result
no.	Flouder	Reference	Origin	- Injury protocol	Injury measurement	Inoculation level	1/10 dilution
3737	Hypoallergenic powdered milk	S. meleagridis 505	Raw milk	TT 8mn/56 °C	1.45	0-1-1-2 (1.0)	+
3993	Powdered skim milk	S. mikawasima Ad1811	Milk	TT 8mn/56 °C	0.61	5-4-2-6-5 (4.4)	+
3996	Powdered formula milk	S. mikawasima Ad1811	Milk	TT 8mn/56 °C	0.61	5-4-2-6-5 (4.4)	+
3730	Whey protein	S. montevideo 510	Raw milk	TT 8mn/56 °C	0.70	2-5-7-7-8 (5.8)	+
3735	Hypoallergenic powdered milk	S. montevideo 510	Raw milk	TT 8mn/56 °C	0.70	2-5-7-7-8 (5.8)	+
2679	Hypoallergenic powdered milk	S. montevideo 604	Raw milk	TT 8mn/56 °C	0.57	4-0-2-1-3 (2.0)	+
2684	Powdered infant formula milk	S. montevideo 604	Raw milk	TT 8mn/56 °C	0.57	4-0-2-1-3 (2.0)	+
4235	Hypoallergenic powdered formula milk	S. montevideo 606	Raw milk	TT 8mn/56 °C	1.44	14-15-10-12-10 (12.2)	+
4236	Hypoallergenic powdered formula milk	S. montevideo 606	Raw milk	TT 8mn/56 °C	1.44	14-15-10-12-10 (12.2)	+
5000	Cattle feed (meal)	S. montevideo Ad1503	Animal feed	TT8 min /56 °C	0.95	9-12-8-11-6 (9.2)	+
5001	Barley	S. montevideo Ad1503	Animal feed	TT 8 min /56 °C	0.95	9-12-8-11-6 (9.2)	+
2356	Powdered milk with 0.1% probiotics (S. thermophilus, Lactobacillus reuteri DSM17938)	S. montevideo Ad912	Raw milk	TT 8mn/56 °C	1.43	0-1-2-1-2 (1.2)	+
2358	Powdered milk with probiotics (Bifidus lactis)	S. montevideo Ad912	Raw milk	TT 8mn/56 °C	1.43	0-1-2-1-2 (1.2)	+
2360	Hypoallergenic powdered milk	S. montevideo Ad912	Raw milk	TT 8mn/56 °C	1.43	0-1-2-1-2 (1.2)	+
5121	Dried cat food (wheat, chicken)	S. newport 586	per Carcass	TT 8 min /56 °C	0.43	7-7-8-8-9(7.8)	+
3039	Powdered anti-regurgitation milk, thickened formula	S. ohio Ad1482	Raw cow's milk	TT 8mn/56 °C	0.77	0-2-0-0-3(1.0)	+
3040	Powdered infant formula milk	S. ohio Ad1482	Raw cow's milk	TT 8mn/56 °C	0.77	0-2-0-0-3(1.0)	-
4237	Hypoallergenic powdered formula milk	S. typhimurium 4	Powdered milk	TT 8mn/56 °C	1.54	8-11-5-14-13 (10.2)	+
4238	Hypoallergenic powdered formula milk	S. typhimurium 4	Powdered milk	TT 8mn/56 °C	1.54	8-11-5-14-13 (10.2)	+
5122	Dried cat food (beef, wheat)	S. typhimurium Ad1338	Pig's caul	TT 8 min /56 °C	0.60	12-8-10-9-7(9.2)	+

Appendix 6 – Relative accuracy: raw results (Extension study - 2014)

Legend:

Bold face:	artificially contaminated sample
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- m: target strain in minority
- M: target strain in majority
- P: target strain in pure culture
- 1/2: target strain represents 50%
- () number of characteristic colonies observed
- -: no target strain colonies with presence of secondary flora
- st: no colonies (target or secondaryflora)
- d: questionable characteristic colony
- nc: non-characteristic
- ni: non-isolated characteristic colony
- PA: positive agreement
- NA: negative agreement
- ND: negative deviation
- PD: positive deviation

					ANIMAL FEED MEAL	S AND	CUBES					
				IS	O 6579 reference metho	d *			IRIS Salı	monella method		
No. Sample	Product	Final global			racteristic colonies		ISO 6579	Pre	reheated supplemented BPW - 18h / 41.5 °C IRIS Salmonella - 21h / 37 °C			
Campic		giobai	R	/S	MKTTn	r	result				5	1
			XLD	IRIS	XLD	IRIS		C haracteristic colonies	Latex direct CONFIRM Salmonella	Reference method method	Final	Agreement
4903	Pig feed	-	-	-	-	-	-	-	1	1	-	NA
4904	Piglet feed	-	-	-	-	-	-	st	1	1	-	NA
4905	Quail finishing feed	+	+p	+р	+p	+p	+	+p	+	+	+	AP
4906	Guinea fowl finishing feed	+	+m	+m	-	-	+		/	/	-	ND
4907	Duck feed	+	+р	+р	+p	+p	+	+p	+	+	+	AP
4908	Sheep-lamb feed	+	+M	+M	+1/2	+M	+	+p	+	+	+	AP
4909	Horse feed	+	+1/2	+M	+p	+р	+	+p	+	+	+	AP
4910	Pheasant-partridge feed	+	+1/2	+M	+p	+р	+	+p	+	+	+	AP
4911	Pig feed	-	-	-	+m d (NC on TSA)	-	-	-	1	1	-	NA
4912	Facility outfeed meal	+	+M	+M	+M	+p	+	+p	+	+	+	AP
4913	Fish meal	+	+1/2	+M	+1/2	+M	+	-	/	/	-	ND
4914	Feed premix	-	st	st	st	st	-	st	/	/	-	NA
4915	Milk premix	-	st	st	st	st	-	st	/	/	-	NA
4916	Wheat starch	+	+M	+M	+M	+р	+	+M	+	+	+	AP
4917	Broken animal biscuits	-	-	-	-	-	-	-	1	1	-	NA
4918	Cakes for animals	+	+M	+M	-	-	+	+m	+	+	+	AP
4919	Poultry meat-based animal protein	+	+m	+M	+M	+р	+	+p	+	+	+	AP
4920	Tuna/salmon/vegetable dried cat food	+	+M	+M	+M	+р	+	+p	+	+	+	AP

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					ANIMAL FEED MEAL	s and	CUBES					
				IS	O 6579 reference metho	d*			IRIS Salı	monella method		
No. Sample	Product	Final global			racteristic colonies		ISO 6579	Pre		ented BPW - 18h		
Jampie		giobai	R	/S	MKTTn	1	result			onella - 21h / 37 °	C	1
			XLD	IRIS	XLD	IRIS		C haracteristic colonies	Latex direct CONFIRM Salmonella	Reference method method	Final	Agreemen
4921	Chicken-flavoured dried young cat food	+	+m ni	+m	+m	+m	+	+p	+	+	+	AP
4922	Poultry/rice sterilised cat food	+	+р	+M	+p	+р	+	+p	+	+	+	AP
4923	Dog biscuits stuffed with meat	+	+M	+M	+p	+р	+	+M	+	+	+	AP
4924	Dried dog food	+	+р	+р	+p	+p	+	+p	+	+	+	AP
4925	Beef/cereal flavoured dried dog food	+	+р	+р	+p	+р	+	+m	+	+	+	AP
5000	Cattle feed (meal)	+	+m d ni	+M d ni	+m d ni	+m	+	-	1	/	-	ND
5001	Barley	+	-	+m	-	-	+	+(1)	+	+	+	AP
5002	Bran	+	-	-	+m d ni	-	+	-	1	1	-	ND
5003	Sow feed	-	-	-		-	-	-	1	/	-	NA
5004	Maize dregs	+	+P	+P	+P	+P	+	st	1	/	-	ND
5005	Dried alfalfa	-	st	st		-	-	-	1	/	-	NA
5006	Dairy cow feed	+	+M	+M		-	+	-	1	/	-	ND
5008	Ruminant feed	-	st	st	st	st	-	st	1	/	-	NA
5009	Cattle feed, 28% protein	+	-		st	st	-	+P	+	+	+	PD
5010	Sheep feed	-	-	-		-	-	-	1	/	-	NA
5011	Duck feed	-	-		-	-	-	-	1	/	-	NA
5013	Rabbit feed	-	-	-	st	st	-	st	1	1	-	NA
5114	Dried raw materials	-	-	-	d (Citrobacter youngae)	-	-	-	/	1	-	NA
5115	Salmon meal	_	-	-	st	st	-	-	/	/	-	NA
5116	Lamb meal	+	+1/2	+M	+1/2	+M	+	+m	+	+	+	AP
5117	Digest	-	st	st	st	st	-	st	1	1	-	NA
5118	Tallow	-	-	-	-	-	-	-	/	/	-	NA

					ANIMAL FEED MEAL	s and	CUBES					
				IS	O 6579 reference metho	d *			IRIS Salı	monella method		
No.	Product	Final			racteristic colonies		ISO 6579	Pre		ented BPW - 18h		
Sample		global	R	/S	MKTTn		result			onella - 21h / 37 °	С	
			XLD	IRIS	XLD	IRIS		C haracteristic colonies	Latex direct CONFIRM Salmonella	Reference method method	Final	Agreement
5119	Dried dog food	+	st	st	st	st	-	+p	+	+	+	PD
5121	Dried cat food (wheat, chicken)	+	+р	+р	+p	+р	+	+p	+	+	+	AP
5122	Dried cat food (beef, wheat)	+	+р	+M	+p	+р	+	+M	+	+	+	AP
5123	Dried dog food (poultry, vegetables, cereals)	+	+р	+р	+p 🔹	+p	+	+p	+	+	+	AP
5124	Dried puppy food (chicken, rice)	+	+1/2	+M	+1/2	+1/2	+	+1/2	+	+	+	AP
5357	Raw material at drier outfeed	-	-	-	-	-	-	-	1	/	-	NA
5358	Raw material at drier outfeed	-	-	-	-	-	-	-	/	1	-	NA
5359	Sender raw material	+	-	-	-		-	+m ni	+	+	+	PD
5360	Sender raw material	-	-	-	-	-	-	-	1	/	-	NA
5361	Chicken/carrot/milk dried kitten food	-	st	st	st	st	-	st	/	/	-	NA
5362	Tuna/salmon/vegetables/cereals dried cat food	-	st	st	st	st	-	st	1	1	-	NA
5363	Poultry/rice sterilised cat food	-	st	st	st	st	-	st	/	/	-	NA
5364	Beef/chicken/liver dried cat food	-	st	st	st	st	-	st	1	/	-	NA
5365	Salmon/vegetable dried cat food	-	st	st	st	st	-	st	/	/	-	NA
5366	Chicken/rice dried puppy food	-	st	st	st	st	-	-	/	/	-	NA
5367	Cereals/beef/vegetables dried adult dog food	-	st	st	st	st	-	st	1	/	-	NA
5368	Poultry/vegetables/cereals dried soft dog food	-	st	st	st	st	-	st	1	1	-	NA
5369	Beef/cereals soft dried dog food	-	st	st	st	st	-	st	1	/	-	NA
5370	Dried dog food	-	st	st	st	st	-	st	/	/	-	NA
5586	Dried dog food	-	-	-	-	-	-	st	1	/	-	NA
ummai	réveloppement ry report (Version 0) <i>monella</i>				88/98							06 July 20

								POWDERED	MILK							
			١٢	ISO 6579	9 refere	ince me	ethod*				IJ	IRIS Salmonella m				
No.		Final	Ch	haracteristi	tic colo	nies		Prehe	eated supplemen	nted BPW - 1	,8h / 41.5 °€			pplemented BPW Storage 72h / 4 °		.5 °C
Sample	Product	global	R	RVS	Mĸ	KTTn	Final ISO 6579			onella - 21h / 37	<u>(°C</u>		IRIS (Salmonella - 21h	/ 37 °C	
			XLD	IRIS	XLD	IRIS	130 0073	Characteristic colonies	Latex direct CONFIRM Salmonella	Reference method method	Final result	Agreement	Characteristic colonies	Latex direct CONFIRM Salmonella	Final result, 72 h	Agre 7
2355	Powdered milk with thick formula probiotics (Bifidobacteria, lactic ferments)	-	st	st	st	st	-	st	/			NA	st	/	-	N
2356	Powdered milk with 0.1% probiotics (S. thermophilus, Lactobacillus reuteri DSM17938)	+	st	st	st	st	-	+p	+	+	+	PD	+p	+	+	F
2337	Powdered milk with probiotics (Bifidobacteria, lactic ferments)	-	st	st	st	st	-	st		/	-	NA				<u> </u>
	Powdered milk with probiotics (Bifidus lactis)	+	+р	+р	+m	+р	+	+p	+	+	+	PA	+p	+	+	<u> </u>
2359	Powdered milk without probiotics	+	+р	+р	+M	+р	+	+p	+	+	+	PA	+p	+	+	ſť
2360	Hypoallergenic powdered milk	+	+р	+p	+p	+p	+	+p	+	+	+	PA	+p	+	+	۲ ۲
2361	Hypoallergenic powdered milk	+	+p	+p	+p	+p	+	+p	+	+	+	PA	+p	+	+	Ĺſ
2679	Hypoallergenic powdered milk	+	+M	+M	+p	+p	+	+p	+	+	+	PA	+p	+	+	[F
	Powdered infant formula milk	+	+р	+p	+p	+p	+	+p	+	+	+	PA	+p	+	+	۲ ۲
	Powdered anti-regurgitation milk, thickened formula	+	+p	+р	+р	+p	+	st	/	/	-	ND	st	/	-	
3040	Powdered infant formula milk	-	st	st	st	st		st	/	/	-	NA	 	<u> </u>		
3041	Powdered infant formula milk	-	st	st	st	st	- /	st	/	/	-	NA		<u> </u>		
3729	Milk protein	+	+p	+р	-+p	+p	+	+p	+	+	+	PA	+p	+	+	<u> </u>
3730	Whey protein	+	+p	+р	+p	+p	+	st	/	/	-	ND	st	1	-	
	Milk protein isolates	+	st	st	+d	+M	+	st	/	/ /	-	ND	st	/	-	
3732	Milk protein	<u> </u>	<u> </u>			-	<u> </u>	-	/	/ /	-	NA	-	/	- /	

Summary report (Version 0) IRIS Salmonella

SOLABIA

								POWDERED	MILK							
			15	SO 6579	9 refere	nce me	ethod*				IF	RIS Salmonella				
No.		Final	Ch	aracterist	tic colo	nies		Prehe	ated supplemer	nted BPW - 1	8h / 41.5 °C			pplemented BPV Storage 72h / 4		5 °C
Sample	Product	global	R\	VS	MK	(TTn	Final ISO 6579		IRIS Salmor	<i>nella -</i> 21h / 37	°C			Salmonella - 21h		
 			XLD	IRIS	XLD	IRIS	120 0213	Characteristic colonies	Latex direct CONFIRM Salmonella	Reference method method	Final result	Agreement	Characteristic colonies	Latex direct CONFIRM Salmonella	Final result, 72 h	Agre 7
3733	Sodium caseinate	+	+M	+p	+р	+р	+	+p (10)	+	+	+	РА	+p (10)	+	+	F
3734	Caseinate	-	st	st	st	st	-	st	1		-	NA				
3735	Hypoallergenic powdered milk	+	+p	+p	+p	+p	+	+p (9)	+	+	+	PA	+p (1)	+	+	F
3736	Hypoallergenic powdered milk	+	+d	+M	+d	+p	+	+p (5)	+	+	+	PA	+p (1)	+	+	F
3737	Hypoallergenic powdered milk	+	+p	+M	+р	+р	+	+p	+	+	+	РА	+p	+	+	F
3738	Hypoallergenic powdered milk	-	st	st	-	st	-	st		1	-	NA				
3739	Hypoallergenic powdered milk	-	st	st	st	st	-	st		1	-	NA				
3740	Hypoallergenic powdered milk	-	st	st	st	st		st		/	-	NA				
3880	Hypoallergenic powdered formula milk	-	-	-	st	st	-	st	1	/	-	NA				
3881	Hypoallergenic powdered formula milk	-	st	st	st	st	-	st	/	/	-	NA				
3882	Powdered formula milk	-	st	st	st	st		st	/	/	-	NA				
3883	Powdered formula milk with 0.1% probiotics (S. thermophilus, Lactobacillus reuteri DSM17938)	-	st	st	st	st		st	/	/	-	NA				
3884	Powdered formula milk with probiotics (Bifidobacteria + lactic ferments)	-	st	st	st	st		st	/	1	-	NA				
3885	Caseinate	-	st	st	-	-	-	st	/	/	-	NA				
3886	Milk protein isolates	-	-	-	-	-	-		/	/	-	NA				
3887	Whey protein	-	st	st	st	st	-	-	/	/	-	NA				
3888	Milk protein	-	st	st	st	st	-	st		/	-	NA				
3889	Milk protein isolates	-	st	st	st	st	-		/	/	-	NA				
3992	Powdered skim milk	+	+p	+p	+р	+р	+	+m	+	+	+	PA	+m	+	+	F
3993	Powdered skim milk	+	st	st	st	st	-	+p	+	+	+	PD	+p	+	+	F
3994	Powdered formula milk with 0.1% lactic	+	st	st	st	st	-	+p	+	+	+	PD	+p	+	+	F
Summa	Développement ary report (Version 0) almonella				_		9	00/98	_	_				06 July 201	5	

								POWDERED	MILK							
			١	SO 6579	9 refere	nce m	ethod*				IF	RIS Salmonella	method			
No.		Final	Ch;	naracterist	itic colo	nies		Prehe	ated suppleme	ented BPW - 18	8h / 41.5 °C			ipplemented BPV Storage 72h / 4 °		5°C
Sample	Product	global	R۱	RVS	Mĸ	(TTn	Final	1	IRIS Salmor	onella - 21h / 37	∕°C		IRIS	Salmonella - 21h	/ 37 °C	
			XLD	IRIS	XLD	IRIS	- ISO 6579	Characteristic colonies	Latex direct CONFIRM Salmonella	Reference method method	Final result	Agreement	Characteristic colonies	Latex direct CONFIRM Salmonella	Final result, 72 h	Agre 7
	ferments (S. thermophilus, Lactobacillus reuteri DSM17938)		'													
3995	Powdered formula milk	+	st	st	st	st	-	+p	+	+	+	PD	+p	+	+	F
3996	Powdered formula milk	+	+р	+р	+р	+p	+	+p	+	+	+	PA	+p	+	+	F
3997	Hypoallergenic powdered formula milk	+	+M	+M	+M	+p	+	+p	+	+	+	PA	+p	+	+	F
3998	Hypoallergenic powdered formula milk	+	+p	+p	+m	+p	+	+p	+	+	+	PA	+p	+	+	F
3999	Hypoallergenic powdered formula milk	-	st	st	st	st	<u> </u>	· · ·		I	-	NA		1		
4000	Whey protein	+	<u> </u>	+p	+M	+p	+	+p	+	+	+	PA	+p	+	+	F
4001	Milk protein	+	+р	+р	+m	+p	+	+p	+'	+	+	PA	+p	+	+	F
4002	Milk protein	+	+р	+p	+m	+m	+	+p	+	+	+	PA	+p	+	+	
4003	Casein-rennet	+	+m	+р	-	+p	+	+p	+	+	+	PA	+p	+	+	F
4121	Mild whey	+	st	st	st	st	-	+p	+	+	+	PD	+p	+	+	F
4122	Mild whey	-	st	st	st	st	- 1	st	/	/	-	NA		<u> </u>		
4123	Whey	-	st	st	st	st	-	st		/	-	NA	st	/	-	
4124	Whey	-	st	st	st	st	-	st	/	/	-	NA		· !		
4125	Whey	- 1	st	st	st	st		st	/	/	-	NA		<u> </u>		\square
4126	Whey	-	st	st	st	st		st	<u> </u>	/	-	NA		† <u> </u>		
4127	Micro-filtration filtrate	-	st	st	st	st		st	/	/	-	NA		<u>'</u>		\square
4128	Micro-filtration filtrate	-	st	st	st	st	-	st		/	-	NA				
	Powdered growing up formula milk	-	st	st	st	st	-	st	/	/	-	NA		<u>ا ا</u>		\square
4130	Powdered growing up formula milk with probiotics (Bifidobacteria)	-	st	st	st	st	-	st	/	/	-	NA				
	Hypoallergenic powdered formula milk	+	+р	+p	+p	+р	+	+p	+	+	+	PA	+p	+	+	<u> </u>
4236	Hypoallergenic powdered formula milk	+	+p	+р	+р	+р	+	+p	+	+	+	PA	+p	+	+	['
4237	Hypoallergenic powdered formula milk	+	+p	+р	+р	+р	+	+p	+	+	+	PA	+p	+	+	<u> </u>
Summa	Développement ary report (Version 0) almonella						9	91/98						06 July 201	5	

SOLABIA

								POWDERED	MILK							
			IS	SO 6579	9 refere	ence me	ethod*				IF	RIS Salmonella	method			
No.		Final	Cha	aracterist	tic colo	nies		Prehe	ated suppleme	nted BPW - 1	8h / 41.5 °C		Preheated sup	plemented BP\ Storage 72h / 4		.5 °C
Sample	Product	global	R۱	/S	MK	(TTn	Final ISO 6579		IRIS Salmor	nella - 21h / 37	°C		IRIS S	Salmonella - 21h	/ 37 °C	
			XLD	IRIS	XLD	IRIS	150 057 5	Characteristic colonies	Latex direct CONFIRM Salmonella	Reference method method	Final result	Agreement	Characteristic colonies	Latex direct CONFIRM Salmonella	Final result, 72 h	Agre 7
4238	Hypoallergenic powdered formula milk	+	+p	+M	+р	+р	+	+p	+	+	+	PA	+p	+	+	F
4239	Hypoallergenic powdered formula milk	+	+p	+р	st	st	+	+p	+	+	+	PA	+p	+	+	F
4240	Hypoallergenic powdered formula milk	-	st	st	st	st	-	st	1	1	-	NA				
4241	Hypoallergenic powdered formula milk	-	st	st	st	st	-	st	1		-	NA				
4242	Hypoallergenic powdered formula milk	-	st	st	st	st	-	st	1	/	-	NA				
4243	Hypoallergenic powdered formula milk	-	st	st	st	st	-	st	X	1	-	NA				

PApendix 7 – Inclusivity and Exclusivity: results (Initial validation - 2011)

				INCLUSIVITY				
		Strain	Reference	Origin	Counts CFU/225ml supplemented BPW	IRIS Salmonella	Latex OXOID	Latex CONFIRM Salmonella
1	Salmonella	Agona	A00V38	Animal feed	11	+	+	+
2	Salmonella	Anatum	6140	Beef bourguignon	24	+	+	+
3	Salmonella	arizonae SIIIa 51:z24,223:-	CIP 5523	Turkey	8	+	+	+
4	Salmonella	diarizonae SIIIb 47:IV:253	Ad478	Clams	14	+	+	+
5	Salmonella	diarizonae SIIIb 38:IV:253	Ad451	Raw ewe's milk	11	+	+	+
6	Salmonella	diarizonae SIIIb 61:-:,1,5,7	Ad1280	Raw ewe's milk	13	+ small pale colonies	+	+ very weak
7	Salmonella	diarizonae 38 :lv :253	Ad 453	Raw milk cheese	14	+	+	+
8	Salmonella	Blockley	Ad 923	Chicken	8	+	+	+
9	Salmonella	Bovismorbificans	728	Gelatine	11	+	+	+
10	Salmonella	Braenderup	178	Food	6	+	+	+
11	Salmonella	Brandenburg	Ad 351	Seafood	7	+	+	+
12	Salmonella	Bredeney	396	Minced steak	9	+	+	+
13	Salmonella	Cerro	Ad 689	Dried poultry protein	9	+	+	+
14	Salmonella	Cremieu	230	Hare	11	+	+	+
15	Salmonella	Derby	Ad 1093	Hare	10	+	+	+
16	Salmonella	Dublin	Ad 528	Pancake	16	+	+	+
17	Salmonella	Enteritidis	Ad 926	time	17	+	+	+
					3	-	/	1
18	Salmonella	Gallinarum biovar pullorum	Ad 300	Poultry environment	14	-(growth -in BPW +supplement)	1	1
					39(supplemented BPW + milk)	+ pale micro- colonies	+weak	+ very weak
19	Salmonella	Gallinarum	1	Poultry environment	6	+small colonies	+	-

				INCLUSIVITY				
		Strain	Reference	Origin	Counts CFU/225ml supplemented BPW	IRIS Salmonella	Latex OXOID	Latex CONFIRM Salmonella
20	Salmonella	Gallinarum	2	Poultry environment	10	+very pale micro- colonies	+	-
21	Salmonella	Give/Newbrunswick	436	Minced steak	11	+	+	+
22	Salmonella	Hadar	35	Poultry	16	+	+	+
23	Salmonella	Havana	Ad 930	Poultry	13	+	+	+
24	Salmonella	Heidelberg	A00E005	Dairy environment	8	+	+	+
25	Salmonella	houtenae (sub-group IV) 43:z4z32	Ad 597	Fish	6	+pale colonies	+ weak	+ weak
26	Salmonella	Indiana	2	fish meal	6	+	+	+
27	Salmonella	indica (sub-group VI) 1,26,14,25:a:enx	Ad 600	Environment	10	+	+	+
28	Salmonella	Infantis	12	Terrine	7	+	+	+
29	Salmonella	kedougou	Ad 929	Cattle environment	11	+	+	+
30	Salmonella	kottbus	1	Poultry environment	11	+	+	+
31	Salmonella	Lagos	173	Sausage	13	+	+	+
32	Salmonella	Landau	Ad 499	Food	8	+	+	+
33	Salmonella	Livingstone	E1	Powdered egg white	9	+	+	+
34	Salmonella	London	326	Ham	11	+	+	+
35	Salmonella	Manhattan	900	Dairy environment	8	+	+	+
36	Salmonella	Mbandaka	Ad 914	Mayonnaise	8	+	+	+
37	Salmonella	Meleagridis	505	Raw milk	13	+	+	+
38	Salmonella	Montevideo	Ad 912	Raw milk	16	+	+	+
39	Salmonella	Napoli	Ad 928	Cattle	6	+	+	+
40	Salmonella	Newport	540	Toulouse sausage	17	+	+	+
41	Salmonella	Panama	195	Minced beef	10	+	+	+
42	Salmonella	Paratyphi A	ATCC 9150		1	+	+	-
43	Salmonella	Paratyphi B	Ad 301	Clinical aspects	6	+	+	+
44	Salmonella	Paratyphi C	ATCC 13428		2	+	+	+

ADRIA Développement Summary report (Version 0)

IRIS Salmonella

				INCLUSIVITY				
		Strain	Reference	Origin	Counts CFU/225ml supplemented BPW	IRIS Salmonella	Latex OXOID	Latex CONFIRM Salmonella
45	Salmonella	Regent	328	Duck	8	+	+	+
46	Salmonella	Rissen	39	Poultry	3	+	+	+
47	Salmonella	Saintpaul	F31	Sardine fillet	11	+	+	+
48	Salmonella	salamae (sub-group II) 42:b:enxz	Ad 593	Cereals	9	+	+	+
49	Salmonella	Senftenberg	Ad 355	Seafood cocktail	6	+	+	+
50	Salmonella	Tennessee	A00E006	Dairy environment	5	+	+	+
51	Salmonella	Thompson	AER301	Poultry	6	+	+	+
52	Salmonella	Typhi	Ad 302	Clinical aspects	2	+	+	+
53	Salmonella	Typhimurium	305	Paëlla	4	+	+	+
54	Salmonella	Typhimurium S1 1,4 [5], 12 :- :-	Ad 1233	Tiramisu	15	+	+	+
55	Salmonella	Typhimurium S1 1,4 [5], 12 : i : -	Ad 1234	Tahiti style pork	13	+	+	+
56	Salmonella	Urbana	Ad 501	Food	23	+	+	+
57	Salmonella	Virchow	F276	Curry	12	+	+	+
58	Salmonella	Typhimurium SI 1,4,[5],12:-:1,2 (monophasic variant)	Ad1335	Poultry (primary production)	7	+	+	+

X

		Strain	Origin	Counts CFU/mI BPW	IRIS Salmonell
1	Citrobacter braakii	Ad833	Beef collar	3,6.105	-
2	Citrobacter diversus	adria 140	Raw milk	3,7.105	-
3	Citrobacter freundii	adria 23	Toulouse sausage	3,9.105	-
4	Citrobacter freundii	adria 175	Duck meat	4,9.105	-
5	Citrobacter koseri	adria 71	Frozen vegetables	5,1.105	-
6	Cronobacter sakazakii	adria 95	Fromage frais	2,2.105	-
7	Enterobacter agglomerans	adria 11	Cheese	2,3.105	-
8	Enterobacter amnigenus	A00C068	Cockerel	2,5.105	-
9	Enterobacter cloacae	adria 10	Raw milk	1,6.105	-
10	Enterobacter intermedius	adria 60	Frozen mange-tout	6,4.105	-
11	Enterobacter kobei	Ad 342	Ham	1,8.105	-
12	Erwinia carotovora	CIP 8283	Potatoes	1,8.105	-
13	Escherichia coli	adria 19	Grated carrots	2,0.105	-
14	Escherichia hermanii	Ad 461	Custard	9,2.104	-
15	Escherichia vulneris	adria 127	Raw milk	4,6.105	-
16	Hafnia alvei	adria 167	Sausages	3,2.105	-
17	Klebsiella oxytoca	57	Food	2,6.105	-
18	Klebsiella pneumoniae	47	Turkey meat	4,0.105	-
19	Kluyvera spp.	adria 41	Raw milk	3,6.105	-
20	Pantoea agglomerans	adria 86	Frozen mixed vegetables	3,4.105	-
21	Proteus mirabilis	Ad639	Mayonnaise	4,7.105	-
22	Proteus vulgaris	adria 43	Sliced ham	1,4.104	-
23	Providencia rettgeri	adria 112	Liquid egg white portion	3,6.105	-
24	Rhanella aquatilis	adria 69	Shellfish	8,7.105	-
25	Serratia liquefaciens	26	Pasteurised liquid	9,8.104	-
26	Serratia marcescens	Ad447	Raw milk	2,9.105	-
27	Serratia proteomaculans	A00C056	Ham	3,4.104	-
28	Shigella flexneri	CIP 8248	1	1,7.105	-
29	Shigella sonnei	CIP 8249T (ATCC 29930)	1	2,0.105	-
30	Yersinia enterocolitica	adria 32	Bacon	2,2.105	_

Appendix 8 - Calculation of degree of agreement (Initial validation - 2011)

Reference method

Alternative method

el LO				-		lative met	liva					
								L	evel L0			
Number negatives obtained	Probability of negatives	Probability of positive pairs	Probability of positive identical	1	Labora- tory	Number of positives obtained	Probability of positives	Probability of positive results	Number of negatives obtained	Probability of negatives	Probability of positive pairs	Probability of positive identical
			results									results
8	1	1	1		B	8	1	1	0	0	0	1
8	1	1	1		D	8	1	1	0	0	0	1
8	1	1	1		E	8	1	1	0	0	0	1
0 7	0.875	0.765625	0.78125		F	8	1	1	0	0	0	1
8	1	1	1		G	8	1	1	0	0	0	1
			1				1				0	
8	1	1			H	8		1	0	0	0	1
8		1	1			8	1	1	0	0		1
8	1	1	1		J	8	1	1	0	0	0	1
8	1	1	1		K	8	1	1	0	0	0	1
8	1	1	1		L	8	1	1	0	0	0	
8	1	1	1		M	8	1	1	0	0	0	1
8	1	1	1		0	8	1	1	0	0	0	1
8	1	1	1		Р	8	1	1	0	0	0	1
8	1	1	1	h	R	8	1	1	0	0	0	1
		Mean	0.978125								Mean	1
		Degree of	97.8%								Degree of	100.0%
		agreement		IJ					-		agreement	
el L1									evel L1			
Number negatives obtained	Probability of negatives	Probability of positive pairs	Probability of positive identical results		Labora- tory	Number of positives obtained	Probability of positives	Probability of positive results	Number of negatives obtained	Probability of negatives	Probability of positive pairs	Probability of positive identical results
0	0	0	1		В	8	1	1	0	0	0	1
0	0	0	1		С	8	1	1	0	0	0	1
0	0	0	1		D	8	1	1	0	0	0	1
0	0	0	1		E	8	1	1	0	0	0	1
0	0	0	1		F	8	1	1	0	0	0	1
0	0	0	1		G	8	1	1	0	0	0	1
0	0	0	1		H	8	1	1	0	0	0	1
0	0	0	1		I	8	1	1	0	0	0	1
0	0	0	1		J	8	1	1	0	0	0	1
0	0	0	1		к	8	1	1	0	0	0	1
0	0	0	1]	L	8	1	1	0	0	0	1
0	0	0	1		М	8	1	1	0	0	0	1
0	0	0	1		0	8	1	1	0	0	0	1
0	0	0	1		Р	8	1	1	0	0	0	1
0	0	0	1		R	8	1	1	0	0	0	1
		Mean	1								Mean	1
		Degree of	100.0%								Degree of	100.0%
		agreement									agreement	
				u 1								
umber	Probability	Probability of	Probability of	-	Labora-	Number	Probability	Probability of	evel L2 Number	Probability	Probability of	Probability of
negatives obtained	of negatives	positive pairs	positive identical results		tory	of positives obtained	of positives	positive results	of negatives obtained	of negatives	positive pairs	identical results
0	0	0	1		В	8	1	1	0	0	0	1
0	0	0	1		С	8	1	1	0	0	0	1
0	0	0	1		D	8	1	1	0	0	0	1
0			1]	E	8	1	1	0	0	0	1
0	0	0				8	1	1	0	0	0	1
0	0	0	1		F							
0	0				G	8	1	1	0	0	0	1
0	0	0	1				1	1	0	0	0	1
0 0 0	0 0 0 0	0	1 1		G	8						
0 0 0 0	0 0 0 0	0 0 0	1 1 1		G H	8 8	1	1	0	0	0	1
0 0 0 0 0	0 0 0 0	0 0 0 0	1 1 1 1		G H I	8 8 8	1	1	0	0	0	1
0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0	1 1 1 1 1		G H I J	8 8 8 8	1 1 1	1 1 1	0 0 0	0 0 0	0 0 0	1 1 1
0 0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	1 1 1 1 1 1 1		G H J K	8 8 8 8 8	1 1 1 1	1 1 1 1	0 0 0 0	0 0 0 0	0 0 0 0	1 1 1 1
0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	1 1 1 1 1 1 1 1		G H J K L	8 8 8 8 8 8	1 1 1 1 1	1 1 1 1 1	0 0 0 0	0 0 0 0	0 0 0 0 0	1 1 1 1 1
0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1		G H J K L M	8 8 8 8 8 8 8 8	1 1 1 1 1 1 1	1 1 1 1 1 1 1	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	1 1 1 1 1 1
0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 1		G H J K L M O	8 8 8 8 8 8 8 8 8	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0 0	1 1 1 1 1 1 1 1
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 1		G H J K L M O P	8 8 8 8 8 8 8 8 8 8	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 1 1 1		G H J K L M O P	8 8 8 8 8 8 8 8 8 8	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 1

				Level L0			
Labora- tory	Number of positives obtained	Probability of positives	Probability of positive results	Number of negatives obtained	Probability of negatives	Probability of positive pairs	Probability of positive identical results
В	0	0	0	8	1	1	1
С	0	0	0	8	1	1	1
D	0	0	0	8	1	1	1
Е	0	0	0	8	1	1	1
F	1	0.125	0.015625	7	0.875	0.765625	0.78125
G	0	0	0	8	1	1	1
Н	0	0	0	8	1	1	1
Ι	0	0	0	8	1	1	1
J	0	0	0	8	1	1	1
К	0	0	0	8	1	1	1
L	0	0	0	8	1	1	1
М	0	0	0	8	1	1	1
0	0	0	0	8	1	1	1
Р	0	0	0	8	1	1	1
R	0	0	0	8	1	1	1
						Mean	0.978125
			Degree of	97.8%			
						agreement	
				Level L1	-		
Labora- tory	Number of positives obtained	Probability of positives	Probability of positive results	Number of negatives obtained	Probability of negatives	Probability of positive pairs	Probability of positive identical

						Degree of	97.8%
						agreement	
				Level L1			
Labora- tory	Number of positives obtained	Probability of positives	Probability of positive results	Number of negatives obtained	Probability of negatives	Probability of positive pairs	Probability of positive identical results
В	8	1	1	0	0	0	1
С	8	1	1	0	0	0	1
D	8	1	1	0	0	0	1
Е	8	1	1	0	0	0	1
F	8	1	1	0	0	0	1
G	8	1	1	0	0	0	1
Н	8	1	1	0	0	0	1
I	8	1	1	0	0	0	1
J	8	1	1	0	0	0	1
К	8	1	1	0	0	0	1
L	8	1	1	0	0	0	1
М	8	1	1	0	0	0	1
0	8	1	1	0	0	0	1
Р	8	1	1	0	0	0	1
R	8	1	1	0	0	0	1
				K		Mean Degree of agreement	1 100.0%

						ugroomont	
				Level L2			
Labora- tory	Number of positives obtained	Probability of positives	Probability of positive results	Number of negatives obtained	Probability of negatives	Probability of positive pairs	Probability of positive identical results
В	8	1	1	0	0	0	1
С	8	1	1	0	0	0	1
D	8	1	1	0	0	0	1
Е	8	1	1	0	0	0	1
F	8	1	1	0	0	0	1
G	8	1	1	0	0	0	1
Н	8	1	1	0	0	0	1
1	8	1	1	0	0	0	1
J	8	1	1	0	0	0	1
К	8	1	1	0	0	0	1
L	8	1	1	0	0	0	1
М	8	1	1	0	0	0	1
0	8	1	1	0	0	0	1
Р	8	1	1	0	0	0	1
R	8	1	1	0	0	0	1
						Mean	1
						Degree of	100%

Appendix 9 - Calculation of fit (Initial validation - 2011)

Reference method

Level L0 Number of laboratories Number of negative results per laboratory 8

Laboratory	Number	Inter-laboratory pairs	Total number of inter-
	of	with same result	laboratory pairs
	negatives		
В	8	888	896
С	8	888	896
D	8	888	896
E	8	888	896
F	7	784	896
G	8	888	896
Н	8	888	896
I	8	888	896
J	8	888	896
K	8	888	896
L	8	888	896
М	8	888	896
0	8	888	896
Р	8	888	896
R	8	888	896
To	tal	13,216	13,440
F	it	98.	3%
Total +	1		

15

15

Total -

Level L1

Number of laboratories Number of positiv e results per laboratory 8

119

Laboratory	Number	Inter-laboratory pairs with	Total number of inter-	
	of positives	same result	laboratory pairs	
В	8	896	896	
С	8	896	896	
D	8	896	896	
E	8	896	896	
F	8	896	896	
G	8	896	896	
Н	8	896	896	
1	8	896	896	
J	8	896	896	
K	8	896	896	
L	8	896	896	
М	8	896	896	
0	8	896	896	
Р	8	896	896	
R	8	896	896	
To	tal	13,440	13,440	
F	it	100.0%		
「otal +	120			

Total + Total -

Level L2

Number of laboratories Number of positiv e results per laboratory 8

0

Laboratory	Number	Inter-laboratory pairs with	Total number of inter-
	of positives	same result	laboratory pairs
В	8	896	896
C	8	896	896
D	8	896	896
E	8	896	896
F	8	896	896
G	8	896	896
Н	8	896	896
I	8	896	896
J	8	896	896
K	8	896	896
L	8	896	896
М	8	896	896
0	8	896	896
Р	8	896	896
R	8	896	896
Tot	al	13,440	13,440
Fi	t	100.0)%
Total +	120		
Total -	0		

Alternative method

Level L0

Number of laboratories 15 Number of negative results per laboratory 8

Laboratory	Number	Inter-laboratory pairs	Total number of inter-
	of negatives	with same result	laboratory pairs
В	8	896	896
С	8	896	896
D	8	896	896
E	8	896	896
F	8	896	896
G	8	896	896
Н	8	896	896
I	8	896	896
J	8	896	896
K	8	896	896
L	8	896	896
М	8	896	896
0	8	896	896
Р	8	896	896
R	8	896	896
Тс	otal	13,440	13,440
F	it	100.	0%

Total + Total -

Level L1

Number of laboratories Number of positive results per laboratory 8

0

120

Laboratory	Number	Inter-laboratory pairs	Total number of inter-
	of positives	with same result	laboratory pairs
В	8	896	896
C	8	896	896
D	8	896	896
E	8	896	896
F	8	896	896
G	8	896	896
Н	8	896	896
	8	896	896
J	8	896	896
K	8	896	896
L	8	896	896
М	8	896	896
0	8	896	896
Р	8	896	896
R	8	896	896
Total		13,440	13,440
F	it	100	.0%
Total +	120		

15

15

Total +

Total -

Level L2

Number of laboratories Number of positive results per laboratory 8

0

Laboratory	Number	Inter-laboratory pairs	Total number of inter-	
	of positives	with same result	laboratory pairs	
В	8	896	896	
С	8	896	896	
D	8	896	896	
E	8	896	896	
F	8	896	896	
G	8	896	896	
Н	8	896	896	
I	8	896	896	
J	8	896	896	
K	8	896	896	
L	8	896	896	
M	8	896	896	
0	8	896	896	
Р	8	896	896	
R	8	896	896	
Te	otal	13,440	13,440	
	it	100.0%		
Total +	120			
Total -	0			