

NF VALIDATION
Validation of alternative analytical methods
Application in food microbiology

Summary report

Validation study according to EN ISO 16140-2:2016

MicroSEQ® *Salmonella* spp method

(Certificate number: ABI 29/02 - 09/10)

**for the detection of *Salmonella* spp. in a broad range of food,
feed products (including pet food) and primary production samples**

Qualitative method

| | |
|---------------------------|---|
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This report consists of 111 pages, including 9 appendices.
Only copies including the totality of this report are authorised.

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

Version 0
04 July 2022

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Quality Assurance documents related to this study can be consulted upon request from **THERMO FISHER SCIENTIFIC**.

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

| | |
|-------------------------------|--|
| Validation protocols | <ul style="list-style-type: none"> ▪ ISO 16140-1 (2016): Microbiology of the food chain - Method validation — <i>Part 1: Vocabulary</i> ▪ ISO 16140-2(2016): Microbiology of the food chain - Method validation — <i>Part 2: Protocol for the validation of alternative (proprietary) methods against a reference method</i> ▪ AFNOR technical rules (PR Revision 7) |
| Reference methods* | <ul style="list-style-type: none"> ▪ ISO 6579-1 (February 2017) - Microbiology of the food chain - Horizontal method for the detection, enumeration and serotyping of <i>Salmonella</i> spp. - Part 1: detection of <i>Salmonella</i> spp ▪ ISO 6579-1/A1 (March 2020): Microbiology of the food chain - Horizontal method for the detection, enumeration and serotyping of <i>Salmonella</i> spp. - Part 1: detection of <i>Salmonella</i> spp. Amendment 1: Broader range of incubation temperatures, amendment to the status of Annex D, and correction of the composition of MSRV and SC |
| Alternative method | MicroSEQ® <i>Salmonella</i> spp. |
| Scope | <input checked="" type="checkbox"/> A broad range of food <input checked="" type="checkbox"/> Feed products (including pet food) <input checked="" type="checkbox"/> Primary production samples |
| Certification organism | AFNOR Certification (http://nf-validation.afnor.org/) |

* Analyses performed according to the COFRAC accreditation

1 INTRODUCTION

The **MicroSEQ® Salmonella method** was initially validated in September 2010 (certificate number ABI 29/02 – 09/10) according to the ISO 16140 (2003).

A summary of the different validation studies is given in **Table 1**.

Table 1 - Summary of the different validation studies

| Date | Study | ISO method | ISO validation standard |
|----------------|---|-------------------|-------------------------|
| September 2010 | Initial validation study: Human food and feed using the manual extraction protocol (PrepSEQ Rapid Spin) Certificate: ABI 29/02 – 09/10 | ISO 6579 (2002) | ISO 16140 (2003) |
| May 2012 | Extension for primary production samples Manual (PrepSEQ Rapid Spin) and automated extraction protocol (PrepSEQ NA) | ISO 6579 (2002) | ISO 16140 (2003) |
| July 2013 | Extension for the automated extraction protocol (PrepSEQ NA) for meat | ISO 6579 (2002) | ISO 16140 (2003) |
| July 2014 | Renewal | ISO 6579 (2002) | ISO 16140 (2003) |
| March 2018 | Extension for the use of the Thermo Fisher Scientific KingFisher™ Flex-96 Deep Well Magnetic Particle Processor | / | ISO 16140-2 (2016) |
| December 2018 | Renewal study according to ISO 16140-2 (2016) | ISO 6579-1 (2017) | ISO 16140-2 (2016) |
| June 2022 | Renewal study according to ISO 16140-2 (2016) | ISO 6579-1 (2017) | ISO 16140-2 (2016) |

2 METHOD PROTOCOLS

2.1 Alternative method

2.1.1 Principle

The MicroSEQ® *Salmonella* spp. method is based on real time PCR technology with TaqMan® probes.

2.1.2 Protocol

The following protocols were validated:

- **For food and feed products (See Appendix 1)**

- o Enrichment step in BPW at 34-38 °C for 18 h ± 2 h
- o Nucleic Acid extraction using PrepSEQ™ Rapid Spin Sample Preparation Kit (750µl)
- o Real time PCR detection (30µl)
- o Confirmation by:
 - the protocol described in the reference method,
 - or by performing a second enrichment step in RVS (0.1 mL BPW in 10 mL RVS) for 24 h ± 3 h at 41,5°C ± 1°C before streaking (10µl) onto 1 selective agar. The isolated typical colonies are confirmed by a latex test (OXOID) without a purification step.
 - Any appropriate ISO 16140-6:2019 validated method.

- **For primary production samples (See Appendix 2)**

- o Pre-enrichment step in TT broth + I₂KI + Brilliant Green at 34-38°C for 18 h ± 2 h, followed by a sub-culture in BPW (1 ml/9 ml) for 4 h to 6 h at 34-38°C,
- o Nucleic Acid extraction using:
 - The PrepSEQ™ Rapid Spin sample preparation protocol (750µl),
 - The automated PrepSEQ™ NA Extraction- Sample Preparation System (MagMAX™ Express-96 or KingFisher Flex-96 instruments) (100µl),
- o Real time PCR detection (30µl)
- o Confirmation by subculture of the BPW (0.1 ml/10 ml) in RVS, before streaking (10µl) onto XLD and a second chromogenic agar. The isolated typical colonies are confirmed by a latex test (OXOID) without a purification step. Or any appropriate ISO 16140-6:2019 validated method.

- **For meat products (See Appendix 3)**

- o Pre-enrichment step in BPW at 34-38°C for 18 h ± 2 h
- o Nucleic Acid extraction using the automated PrepSEQ™ NA Extraction- Sample Preparation System (MagMAX™ Express-96 or KingFisher Flex-96 instruments),
- o Real time PCR detection (30 µl)

- Confirmation by subculture in RVS (0.1 mL BPW in 10 mL RVS) for 6 h to 24 h ± 3 h at 41.5°C ± 1°C before streaking (10µl) onto XLD and a second chromogenic agar. The isolated typical colonies are confirmed by a latex test (OXOID) without a purification step. Or any appropriate ISO 16140-6:2019 validated method.

In order to provide sufficient practicability to the users, it is possible to store the enriched BPW broths for 72 hours at 5°C ± 3°C, before proceeding to PCR and confirmatory tests.

PCR and Interpretation

The PCR is run using the Applied Biosystems™ 7500 Fast instrument with the Applied Biosystems™ RapidFinder™ Express 2.0 software for interpretation.

2.1.3 Restriction

The sprouts are excluded from the scope of the validation.

2.2 Reference method ♦

The reference method (See **Appendix 4**) used for the renewal study are:

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

2.3 Study design

For Primary Production Samples (PPS), **it is an unpaired study design** as the enrichment step for the reference method and the alternative method is different (use of TT broth + I₂KI +Brilliant Green broth)

For all other categories, **it is a paired study design** as the reference method and the alternative method have the same enrichment step (BPW 18h ± 2h at 34-38°C).

3 INITIAL VALIDATION, EXTENSION AND RENEWAL STUDIES

3.1 Method comparison study

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

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

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

3.1.1 Sensitivity study

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

3.1.1.1 Number and nature of samples

540 samples were tested with the PrepSEQ™ Rapid Spin protocol providing 220 positive and 320 negative results, and 152 samples with PrepSEQ™NA Extraction protocol providing 60 positive and 92 negative results.

The distribution per tested category and type is given in Table 2.

Table 2 – Distribution per tested category and type

| Category | | Type | Positive samples | Negative samples | Total | |
|------------------------------|--|------------------------------------|------------------|------------------|-------|--|
| 1 | Ready-to-eat (RTE), Ready-to-reheat (RTRH) | a RTE | 8 | 14 | 22 | |
| | | b RTRH | 16 | 10 | 26 | |
| | | c Marinated, smoked | 7 | 14 | 21 | |
| | | Total | | 31 | 38 | |
| 2 | Meat products | a Poultry | 10 | 23 | 33 | |
| | | b Pork | 10 | 37 | 47 | |
| | | c Beef and others | 10 | 10 | 20 | |
| | | Total | | 30 | 70 | |
| 3 | Dairy products | a Milk and fermented milk | 10 | 16 | 26 | |
| | | b Cheeses | 10 | 16 | 26 | |
| | | c Dessert, milk powder, ice creams | 10 | 14 | 24 | |
| | | Total | | 30 | 46 | |
| 4 | Egg products | a Egg powders | 8 | 12 | 20 | |
| | | b Liquid egg products | 13 | 14 | 27 | |
| | | c Egg based products | 9 | 11 | 20 | |
| | | Total | | 30 | 37 | |
| 5 | Seafood and vegetables (except sprouts) | a Fish and seafood | 11 | 13 | 24 | |
| | | b Produces | 10 | 11 | 21 | |
| | | c Raw vegetables | 12 | 12 | 24 | |
| | | Total | | 33 | 36 | |
| 6 | Feed samples | a Raw | 10 | 10 | 20 | |
| | | b Dried | 8 | 13 | 21 | |
| | | c Heated | 14 | 11 | 25 | |
| | | Total | | 32 | 34 | |
| 7 | Meat products | a Raw | 14 | 9 | 23 | |
| | | b Delicatessen | 8 | 12 | 20 | |
| | | c RTE, RTRH | 8 | 12 | 20 | |
| | | Total | | 30 | 33 | |
| 8 | Primary production samples (PPS) | a Faeces | 21 | 29 | 50 | |
| | | b Non faeces | 13 | 30 | 43 | |
| | | Total | | 34 | 59 | |
| | | 93 | | | | |
| | PPS | a Faeces | 18 | 30 | 48 | |
| | | b Non faeces | 12 | 29 | 41 | |
| | | Total | | 30 | 59 | |
| | | 89 | | | | |
| Total Rapid Spin Protocol | | | 220 | 320 | 540 | |
| Total NA Extraction protocol | | | 60 | 92 | 152 | |

| | |
|--|---------------------------------|
| | PrepSEQ™ Rapid Spin protocol |
| | PrepSEQ™ NA Extraction protocol |

3.1.1.2 Artificial contamination of samples

270 samples were artificially contaminated; 150 samples gave positive results with the PrepSEQ™ Rapid Spin protocol and 29 samples were positive with the PrepSEQ™ NA Extraction protocol.

Artificial contamination was performed by seeding or spiking protocol: the strains were stressed using various injury protocols depending on the inoculated food matrix; the injury efficiency was evaluated by comparing enumeration done onto selective (XLD plate) and non-selective agars (TSYE plate). The artificial contaminations are presented in **Appendix 5**.

The repartition of positive naturally and artificially contaminated samples, per contamination protocol and inoculation level after excluding the samples with high inoculation level, is provided in **Table 3**.

Table 3 - Repartition per contamination protocol and inoculation level

| PrepSEQ™ Rapid Spin protocol | | | | | | | |
|------------------------------|---------------------------|----------------|---------|------------------|----------------|-------|--------|
| Naturally contaminated | Artificially contaminated | | | | | Total | |
| | Spiking protocol | | | Seeding protocol | | | |
| | ≤ 5 CFU | 5 < x ≤ 10 CFU | >10 CFU | ≤ 3 CFU | 3 < x ≤ 10 CFU | | |
| Number of samples | 70 | 59 | 35 | 13 | 37 | 6 | 220 |
| % | 31,7% | 26,7% | 15,8% | 5,9% | 16,8% | 2,7% | 100,0% |

| PrepSEQ™ NA Extraction protocol | | | | | | | |
|---------------------------------|---------------------------|----------------|---------|------------------|----------------|-------|--------|
| Naturally contaminated | Artificially contaminated | | | | | Total | |
| | Spiking protocol | | | Seeding protocol | | | |
| | ≤ 5 CFU | 5 < x ≤ 10 CFU | >10 CFU | ≤ 3 CFU | 3 < x ≤ 10 CFU | | |
| Number of samples | 31 | 15 | 12 | 2 | 0 | 0 | 60 |
| % | 51,7% | 25,0% | 20,0% | 3,3% | 0,0% | 0,0% | 100,0% |

70 and 31 naturally contaminated samples were tested with the PrepSEQ™ Rapid Spin protocol and PrepSEQ™ NA Extraction respectively.

31.7 % and 51.7 % of the samples were naturally contaminated respectively with the PrepSEQ™ Rapid Spin protocol and PrepSEQ™ NA Extraction respectively.

3.1.1.3 *Protocols applied during the validation study*

Incubation time

The minimum incubation time was applied:

- For food and feed (PrepSEQ™ Rapid Spin protocol): 16 h in BPW;
- For PPS (PrepSEQ™ NA Extraction protocol): 16 h in TT broth + I₂KI +Brilliant Green + 4 h in BPW;
- For meat (PrepSEQ™ Rapid Spin protocol or PrepSEQ™ NA Extraction protocol): 16 h in BPW + 6 h **and** 24 h in RVS.

Extraction protocol

For the extension studies run in 2012 and 2013 the MagMAX™ Express-96 system was used. The KingFisher Flex-96 instrument was used for the renewal study performed in 2018. This concerns the meat and primary production categories.

The PrepSEQ™ Rapid Spin protocol was used for food and feed products and for primary production samples.

Confirmations

For the food and feed samples (PrepSEQ™ Rapid Spin protocol):

- Tests described in the ISO method,
- Subcultures in RVS broth, followed by streaking (10µl) on XLD agar.
- Isolated typical colonies were confirmed by performing a latex test (OXOID) without a purification step.

For the PPS samples (both extraction protocols):

- Subculture of BPW into RVS broth (0.1 ml + 10 ml) incubated at 24 h ± 3 h at 41.5°C ± 1°C, followed by streaking (10µl) onto XLD and IRIS *Salmonella* (or ASAP) agar plates.
- Typical colonies were then confirmed by performing a latex test (OXOID) and the confirmatory tests described in the ISO 6579 method.

For the Meat products (PrepSEQ™ NA Extraction protocol):

- Subculture in RVS broth (0.1 ml + 10 ml) for 6 h to 24 h (both incubation times tested during the validation study) at 41.5°C ± 1°C and then streaking (10µl) onto selective agar plates (XLD and IRIS or ASAP).
- Isolated typical colonies were confirmed by performing a latex test (OXOID) without a purification step.

 Enrichment broth storage

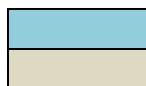
The enrichment broths of the positive samples were tested again after storage for 72h at 5 °C ± 3°C (PCR and confirmatory tests).

3.1.1.4 Test results

Raw data per category are given in **Appendix 6**. The results are given in **Table 4**.

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

| Category | | PA | NA* | PD | ND** | PPND | PPNA | Total |
|------------------------------|---|-----|-----|----|------|------|------|-------|
| 1 | RTE, RTRH | 30 | 37 | 0 | 1 | 0 | 1 | 69 |
| 2 | Meat products | 30 | 67 | 0 | 0 | 0 | 3 | 100 |
| 3 | Dairy products | 28 | 42 | 1 | 1 | 0 | 4 | 76 |
| 4 | Egg products | 30 | 33 | 0 | 0 | 0 | 4 | 67 |
| 5 | Seafood and vegetables (except sprouts) | 31 | 36 | 0 | 2 | 0 | 0 | 69 |
| 6 | Feed samples | 30 | 33 | 0 | 2 | 0 | 1 | 66 |
| 7 | Meat products | 29 | 33 | 0 | 1 | 0 | 0 | 63 |
| 8 | PPS | 20 | 58 | 9 | 5 | 0 | 1 | 93 |
| | PPS | 17 | 57 | 8 | 5 | 0 | 2 | 89 |
| Total Rapid Spin Protocol | | 199 | 306 | 10 | 11 | 0 | 14 | 540 |
| Total NA Extraction protocol | | 46 | 90 | 8 | 6 | 0 | 2 | 152 |



PrepSEQ™ Rapid Spin protocol

PrepSEQ™ NA Extraction protocol

* PPNA not included

** PPND not included

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

The calculations are presented in **Table 5**.

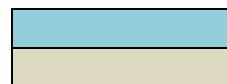
Table 5 – Calculation of the relative trueness (RT), the sensitivity (SE) and the false positive ratio (FPR)

| Category | | Type | PA | NA | PD | ND | PPND | PPNA | SE _{alt} % | SE _{ref} % | RT % | FPR % |
|----------|---|------------------------------------|----|----|----|----|------|------|---------------------|---------------------|-------|-------|
| 1 | RTE, RTRH | a RTE | 7 | 13 | 0 | 1 | 0 | 1 | 87,5 | 100,0 | 95,5 | 7,7 |
| | | b RTRH | 16 | 10 | 0 | 0 | 0 | 0 | 100,0 | 100,0 | 100,0 | 0,0 |
| | | c Marinated, smoked | 7 | 14 | 0 | 0 | 0 | 0 | 100,0 | 100,0 | 100,0 | 0,0 |
| | | Total | 30 | 37 | 0 | 1 | 0 | 1 | 96,8 | 100,0 | 98,6 | 2,6 |
| 2 | Meat products | a Poultry | 10 | 21 | 0 | 0 | 0 | 2 | 100,0 | 100,0 | 100,0 | 9,5 |
| | | b Pork | 10 | 36 | 0 | 0 | 0 | 1 | 100,0 | 100,0 | 100,0 | 2,8 |
| | | c Beef and others | 10 | 10 | 0 | 0 | 0 | 0 | 100,0 | 100,0 | 100,0 | 0,0 |
| | | Total | 30 | 67 | 0 | 0 | 0 | 3 | 100,0 | 100,0 | 100,0 | 4,3 |
| 3 | Dairy products | a Milk and fermented milk | 8 | 15 | 1 | 1 | 0 | 1 | 90,0 | 90,0 | 92,3 | 6,7 |
| | | b Cheeses | 10 | 15 | 0 | 0 | 0 | 1 | 100,0 | 100,0 | 100,0 | 6,7 |
| | | c Dessert, milk powder, ice creams | 10 | 12 | 0 | 0 | 0 | 2 | 100,0 | 100,0 | 100,0 | 16,7 |
| | | Total | 28 | 42 | 1 | 1 | 0 | 4 | 96,7 | 96,7 | 97,4 | 8,7 |
| 4 | Egg products | a Egg powders | 8 | 9 | 0 | 0 | 0 | 3 | 100,0 | 100,0 | 100,0 | 33,3 |
| | | b Liquid egg products | 13 | 14 | 0 | 0 | 0 | 0 | 100,0 | 100,0 | 100,0 | 0,0 |
| | | c Egg based products | 9 | 10 | 0 | 0 | 0 | 1 | 100,0 | 100,0 | 100,0 | 10,0 |
| | | Total | 30 | 33 | 0 | 0 | 0 | 4 | 100,0 | 100,0 | 100,0 | 10,8 |
| 5 | Seafood and vegetables (except sprouts) | a Fish and seafood | 10 | 13 | 0 | 1 | 0 | 0 | 90,9 | 100,0 | 95,8 | 0,0 |
| | | b Produces | 9 | 11 | 0 | 1 | 0 | 0 | 90,0 | 100,0 | 95,2 | 0,0 |
| | | c Raw vegetables | 12 | 12 | 0 | 0 | 0 | 0 | 100,0 | 100,0 | 100,0 | 0,0 |
| | | Total | 31 | 36 | 0 | 2 | 0 | 0 | 93,9 | 100,0 | 97,1 | 0,0 |
| 6 | Feed samples | a Raw | 8 | 9 | 0 | 2 | 0 | 1 | 80,0 | 100,0 | 90,0 | 11,1 |
| | | b Dried | 8 | 13 | 0 | 0 | 0 | 0 | 100,0 | 100,0 | 100,0 | 0,0 |
| | | c Heated | 14 | 11 | 0 | 0 | 0 | 0 | 100,0 | 100,0 | 100,0 | 0,0 |
| | | Total | 30 | 33 | 0 | 2 | 0 | 1 | 93,8 | 100,0 | 97,0 | 2,9 |
| 7 | Meat products | a Raw | 13 | 9 | 0 | 1 | 0 | 0 | 92,9 | 100,0 | 95,7 | 0,0 |
| | | b Delicatessen | 8 | 12 | 0 | 0 | 0 | 0 | 100,0 | 100,0 | 100,0 | 0,0 |
| | | c RTE, RTRH | 8 | 12 | 0 | 0 | 0 | 0 | 100,0 | 100,0 | 100,0 | 0,0 |
| | | Total | 29 | 33 | 0 | 1 | 0 | 0 | 96,7 | 100,0 | 98,4 | 0,0 |

| Category | | Type | PA | NA | PD | ND | PPND | PPNA | SE _{alt} % | SE _{ref} % | RT % | FPR % | |
|------------------------------|-----|----------------|-----|-----|----|----|------|------|---------------------|---------------------|------|-------|--|
| 8 | PPS | a Faeces | 9 | 29 | 8 | 4 | 0 | 0 | 81,0 | 61,9 | 76,0 | 0,0 | |
| | | b Non faeces | 11 | 29 | 1 | 1 | 0 | 1 | 92,3 | 92,3 | 95,3 | 3,4 | |
| | | Total | 20 | 58 | 9 | 5 | 0 | 1 | 85,3 | 73,5 | 84,9 | 1,7 | |
| | PSS | a Faeces | 7 | 28 | 7 | 4 | 0 | 2 | 77,8 | 61,1 | 77,1 | 7,1 | |
| | | b Non faeces | 10 | 29 | 1 | 1 | 0 | 0 | 91,7 | 91,7 | 95,1 | 0,0 | |
| | | Total | 17 | 57 | 8 | 5 | 0 | 2 | 83,3 | 73,3 | 85,4 | 3,4 | |
| Total Rapid Spin Protocol | | | 199 | 306 | 10 | 11 | 0 | 14 | 95,0 | 95,5 | 96,1 | 4,4 | |
| Total NA Extraction protocol | | | 46 | 90 | 8 | 6 | 0 | 2 | 90,0 | 86,7 | 90,8 | 2,2 | |

* PPNA not included

** PPND not included



PrepSEQ™ Rapid Spin protocol

PrepSEQ™ NA Extraction protocol

A summary of the results is given in **Table 6**.

Table 6 - Summary of results

| | | PrepSEQ™ Rapid Spin protocol | PrepSEQ™ NA Extraction protocol |
|--|--|------------------------------------|---------------------------------------|
| Sensitivity for the alternative method | $SE_{alt} = \frac{(PA + PD)}{(PA + ND + PD)} \times 100\%$ | 95.0 % | 90.0 % |
| Sensitivity for the reference method | $SE_{ref} = \frac{(PA + ND)}{(PA + ND + PD)} \times 100\%$ | 95.5 % | 86.7 % |
| Relative trueness | $RT = \frac{(PA + NA)}{N} \times 100\%$ | 96.1 % | 90.8 % |
| False positive ratio for the alternative method* | $FPR = \frac{(FP)}{NA} \times 100\%$ | 4.4 % | 2.2 % |
| FP = PPNA + PPND | | | |

With ND = ND + PPND
 NA = NA + PPNA

3.1.1.6 Analysis of discordant results

The negative deviations are given in **Table 7** and the positive deviations in **Table 8**.

For the PrepSEQ™ Rapid Spin protocol, 11 negative deviations were observed: 6 for food products and 5 for primary production samples. For the food products, the confirmatory tests concluded to the presence of *Salmonella* strain in the enrichment broth.

The contamination level was probably below the detection level of the alternative method in these cases.

For the PrepSEQ™ NA Extraction protocol, 6 negative deviations were observed: 1 for meat products and 5 for primary production samples. The presence of *Salmonella* was confirmed only for the meat products.

10 positive deviations were obtained using the PrepSEQ™ Rapid Spin protocol: 1 for dairy products and 9 for primary production samples. 8 positive deviations were observed for the PrepSEQ™ NA Extraction protocol, all for primary production samples.

Table 7 - Negative deviations

| Sample N° | Product | Artificial contaminations | | Reference method: ISO 6579♦ | Alternative method: MicroSEQ <i>Salmonella</i> spp PrepSEQ Rapid Spin protocol Food and feed products | | | | Category | Type |
|-----------|-----------------------------|---------------------------|-----|--------------------------------|---|--------------|--------------|-----------|----------|------|
| | | | | | PCR result (Cq) | Confirmation | Final result | Agreement | | |
| 2405 | Vegetable terrine | S. Typhimurium Ad1249 | 1,2 | + | -(37,0) / +(35,6)/+(35,1) | + | - | ND | 1 | a |
| 1987 | Raw milk | S. Lagos 173 | 5,8 | + | -/(36,2)/-(36,1) | + | - | ND | 3 | a |
| 6508 | Fish fillet | S. Senftenberg Ad355 | 1,0 | + | -/- | + | - | ND | 5 | a |
| 6591 | Baby leaves (spinach) | S. Caracas Ad2322 | 2,4 | + | -/(37,14)/-(38,13) | + | - | ND | 5 | b |
| 2410 | Raw bovine meat for animals | S. Dublin Ad529 | 2,2 | + | -(36,09)/-(35,9)/+(35,40)/-(36,4) | + | - | ND | 6 | a |
| 2411 | Raw meat for animals 1 | S. Infantis 288 | 1,4 | + | -(36,1)/-(36,9)/-(39,1) | + | - | ND | 6 | a |

| Sample N° | English name product | Artificial contamination | | Reference method: ISO 6579/A1♦ | U47-100 | Alternative method: MicroSEQ <i>Salmonella</i> spp PrepSEQ Rapid Spin protocol and NA Extraction protocol Primary production samples | | | | | | Category | Type | |
|-----------|----------------------|--------------------------|-----------------------------------|-----------------------------------|---------|--|--------|--------------|----------------------------|--------------------|------------------------|-----------------|------|---|
| | | Strain | Inoculation level (CFU/sample) | | | PCR Rapid Spin | PCR NA | Confirmation | Final result Rapid Spin | Final result NA | Agreement RapidSpin | Agreement NA | | |
| 998 | Boot socks(poultry) | / | / | + | + | - | - | - | - | - | ND | ND | 8 | a |
| 1000 | Boot socks(poultry) | / | / | + | + | - | - | - | - | - | ND | ND | 8 | a |
| 1004 | Boot socks(poultry) | / | / | + | + | - | - | - | - | - | ND | ND | 8 | a |
| 1005 | Boot socks(poultry) | / | / | + | + | - | - | - | - | - | ND | ND | 8 | a |
| 1022 | Hen drinker water | S. Derby Ad 1500 | 6,4 | + | + | - | - | - | - | - | ND | ND | 8 | b |

| Sample N° | Product | Artificial contamination | | Reference method: ISO 6579 ♦ | Alternative method: MicroSEQ <i>Salmonella</i> spp Meat products NA Extraction protocol | | | | Category | Type |
|-----------|-----------------|--------------------------|-----------------------------------|---------------------------------|---|------------------------------------|--------------|-----------|----------|------|
| | | Strain | Inoculation level (CFU/sample) | | PCR (Ct) | Confirmation RVS 6h/ RVS 24h | Final result | Agreement | | |
| 2464 | Raw turkey meat | / | / | + | -(36,11) | + /+ | - | ND | 7 | a |

♦ Analyses performed according to the COFRAC accreditation

Table 8 - Positive deviations

| Sample N° | Product | Artificial contamination | | Reference method: ISO 6579* | Alternative method: MicroSEQ Salmonella spp-PrepSEQ Food products Rapid Spin protocol | | | | Category | Type |
|-----------|----------|--------------------------|-----------------------------------|--------------------------------|--|--------------|--------------|-----------|----------|------|
| | | Strain | Inoculation level (CFU/sample) | | PCR result (Cq) | Confirmation | Final result | Agreement | | |
| 1985 | Raw milk | S. Dublin Ad531 | 11,4 | - | + | + | + | PD | 3 | a |

| Sample N° | Product | Artificial contamination | | Reference method: ISO 6579 /A1* | U47-100 | Alternative method: MicroSEQ Salmonella spp PrepSEQ Rapid Spin protocol and NA Extraction protocol Primary production samples | | | | | | | Category | Type |
|-----------|-------------------------------|--------------------------|-----------------------------------|------------------------------------|---------|---|-----------|--------------|----------------------------|--------------------|------------------------|-----------------|----------|------|
| | | Strain | Inoculation level (CFU/sample) | | | PCR Rapid Spin | PCR NA | Confirmation | Final result Rapid Spin | Final result NA | Agreement RapidSpin | Agreement NA | | |
| 254 | Pork faeces | S. Derby Ad1500 | 3,8 | - | - | + | + | + | + | + | PD | PD | 8 | a |
| 996 | Boot socks(poultry) | / | | - | - | + | + | + | + | + | PD | PD | 8 | a |
| 1001 | Boot socks(poultry) | / | | - | - | + | i/+ | + | + | + | PD | PD | 8 | a |
| 1002 | Boot socks(poultry) | / | | - | - | + | i/+ | + | + | + | PD | PD | 8 | a |
| 1017 | Boot socks(poultry) | / | | - | - | + | + | + | + | + | PD | PD | 8 | a |
| 1050 | Pork faeces | S. Typhimurium ST 394 | 5,6 | - | - | +/- | - | + | + | - | PD | NA | 8 | a |
| 1053 | Pork faeces | S. Typhimurium ST 394 | 5,6 | - | - | + | + | + | + | + | PD | PD | 8 | a |
| 243 | Slaughterhouse poultry faeces | S. Hadar 35 | 12 | - | - | + | + | + | + | + | PD | PD | 8 | a |
| 252 | Hen water | S. Typhimurium Ad1335 | 8,4 | - | - | + | + | + | + | + | PD | PD | 8 | b |

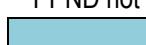
For the PrepSEQ™ Rapid Spin extraction protocol, 11 negative deviations were observed: 6 for food products and 5 for primary production samples. For the food products, the confirmatory tests concluded to the presence of the *Salmonella* strain in the enrichment broth.

The analyses of discordant results according to the EN ISO 16140-2:2016 is the following (See **Table 9**):

Table 9 - Analyses of discordant results

| Category | | Type | N+ | ND** | PPND | PD | Paired | | Unpaired | | Combined | |
|----------|---|---------------------------------------|-----|------|------|----|--------------|----|--------------|----|--------------|----|
| | | | | | | | (ND+PPND)-PD | AL | (ND+PPND)+PD | AL | (ND+PPND)-PD | AL |
| 1 | RTE, RTRH | a RTE | 8 | 1 | 0 | 0 | 1 | | 1 | | 1 | |
| | | b RTRH | 16 | 0 | 0 | 0 | 0 | | 0 | | 0 | |
| | | c Marinated, smoked | 7 | 0 | 0 | 0 | 0 | | 0 | | 0 | |
| | | Total | 31 | 1 | 0 | 0 | 1 | 3 | 1 | 6 | 1 | 3 |
| 2 | Meat products | a Poultry | 10 | 0 | 0 | 0 | 0 | | 0 | | 0 | |
| | | b Pork | 10 | 0 | 0 | 0 | 0 | | 0 | | 0 | |
| | | c Beef and others | 10 | 0 | 0 | 0 | 0 | | 0 | | 0 | |
| | | Total | 30 | 0 | 0 | 0 | 0 | 3 | 0 | 6 | 0 | 3 |
| 3 | Dairy products | a Milk and fermented milk | 10 | 1 | 0 | 1 | 0 | | 2 | | 0 | |
| | | b Cheeses | 10 | 0 | 0 | 0 | 0 | | 0 | | 0 | |
| | | c Dessert, milk powder, ice creams | 10 | 0 | 0 | 0 | 0 | | 0 | | 0 | |
| | | Total | 30 | 1 | 0 | 1 | 0 | 3 | 2 | 6 | 0 | 3 |
| 4 | Egg products | a Egg powders | 8 | 0 | 0 | 0 | 0 | | 0 | | 0 | |
| | | b Liquid egg products | 13 | 0 | 0 | 0 | 0 | | 0 | | 0 | |
| | | c Egg based products | 9 | 0 | 0 | 0 | 0 | | 0 | | 0 | |
| | | Total | 30 | 0 | 0 | 0 | 0 | 3 | 0 | 6 | 0 | 3 |
| 5 | Seafood and vegetables (except sprouts) | a Fish and seafood | 11 | 1 | 0 | 0 | 1 | | 1 | | 1 | |
| | | b Produces | 10 | 1 | 0 | 0 | 1 | | 1 | | 1 | |
| | | c Raw vegetables | 12 | 0 | 0 | 0 | 0 | | 0 | | 0 | |
| | | Total | 33 | 2 | 0 | 0 | 2 | 3 | 2 | 6 | 2 | 3 |
| 6 | Feed samples | a Raw | 10 | 2 | 0 | 0 | 2 | | 2 | | 2 | |
| | | b Dried | 8 | 0 | 0 | 0 | 0 | | 0 | | 0 | |
| | | c Heated | 14 | 0 | 0 | 0 | 0 | | 0 | | 0 | |
| | | Total | 32 | 2 | 0 | 0 | 2 | 3 | 2 | 6 | 2 | 3 |
| 7 | Meat products | a Raw | 14 | 1 | 0 | 0 | 1 | | 1 | | 1 | |
| | | b Delicatessen | 8 | 0 | 0 | 0 | 0 | | 0 | | 0 | |
| | | c RTE, RTRH | 8 | 0 | 0 | 0 | 0 | | 0 | | 0 | |
| | | Total | 30 | 1 | 0 | 0 | 1 | 3 | 1 | 6 | 1 | 3 |
| 8 | PPS | a Faeces | 21 | 4 | 0 | 8 | | | | | | -4 |
| | | b Non faeces | 13 | 1 | 0 | 1 | | | | | | 0 |
| | | Total | 34 | 5 | 0 | 9 | | | | | | -4 |
| | | a Faeces | 18 | 4 | 0 | 7 | | | | | | -3 |
| 8 | PPS | b Non faeces | 12 | 1 | 0 | 1 | | | | | | 0 |
| | | Total | 30 | 5 | 0 | 8 | | | | | | -3 |
| | | Total Rapid Spin Protocol | 220 | 11 | 0 | 10 | 5 | 6 | 7 | 16 | -4 | 4 |
| | | Total NA Extraction protocol | 60 | 6 | 0 | 8 | 1 | 3 | 1 | 6 | -3 | 3 |

** PPND not included

 PrepSEQ™ Rapid Spin protocol
 PrepSEQ™ NA Extraction protocol

The observed values for (ND + PPND) – PD and ND + PPND + PD meet the acceptability limit for each individual category and for all the combined categories (calculated values \leq AL), regardless of the extraction protocol applied.

3.1.1.7 Enrichment broth storage at 5 ± 3 °C for 72 h

272 and 85 DNA extracts were tested respectively for the PrepSEQ™ Rapid Spin protocol and the PrepSEQ™ NA Extraction protocol after enrichment broth storage for 72 h at $5^\circ\text{C} \pm 3^\circ\text{C}$. Four changes were observed (See **Table 10**).

Table 10 - Enrichment broth storage

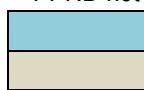
| Sample N° | Product | Agreement before storage | Agreement after storage | Extraction protocol |
|-----------|-------------------|--------------------------|-------------------------|---------------------|
| 2405 | Vegetable terrine | ND | PA | PrepSEQ™ Rapid Spin |
| 2410 | Raw bovine meat | ND | PA | |
| 6197 | RTE | PA | PPND | |
| 2464 | Turkey meat | ND | PA | PrepSEQ™ NA |

The analyses of discordant results become (See **Table 11**).

Table 11 - Analysis of discordant results after storage 72 h at 5 ± 3°C

| Category | Type | N+ | ND** | PPND | PD | (ND+PPND)-PD | Paired | | Unpaired | | Combined | | |
|------------------------------|---|---------------------------------------|------|------|----|--------------|--------|--------------|----------|--------------|----------|--------------|----|
| | | | | | | | AL | (ND+PPND)+PD | AL | (ND+PPND)-PD | AL | (ND+PPND)-PD | AL |
| 1 | RTE, RTRH | a RTE | 8 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 3 | |
| | | b RTRH | 16 | 0 | 0 | 0 | 0 | | | | | | |
| | | c Marinated, smoked | 7 | 0 | 0 | 0 | 0 | | | | | | |
| | | Total | 31 | 0 | 1 | 0 | 1 | 3 | 1 | 6 | 1 | 3 | |
| 2 | Meat products | a Poultry | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | |
| | | b Pork | 10 | 0 | 0 | 0 | 0 | | | | | | |
| | | c Beef and others | 10 | 0 | 0 | 0 | 0 | | | | | | |
| | | Total | 30 | 0 | 0 | 0 | 0 | 3 | 0 | 6 | 0 | 3 | |
| 3 | Dairy products | a Milk and fermented milk | 10 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 3 | |
| | | b Cheeses | 10 | 0 | 0 | 0 | 0 | | | | | | |
| | | c Dessert, milk powder, ice creams | 10 | 0 | 0 | 0 | 0 | | | | | | |
| | | Total | 30 | 1 | 0 | 1 | 0 | 3 | 2 | 6 | 0 | 3 | |
| 4 | Egg products | a Egg powders | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | |
| | | b Liquid egg products | 13 | 0 | 0 | 0 | 0 | | | | | | |
| | | c Egg based products | 9 | 0 | 0 | 0 | 0 | | | | | | |
| | | Total | 30 | 0 | 0 | 0 | 0 | 3 | 0 | 6 | 0 | 3 | |
| 5 | Seafood and vegetables (except sprouts) | a Fish and seafood | 11 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 3 | |
| | | b Produces | 10 | 1 | 0 | 0 | 1 | | | | | | |
| | | c Raw vegetables | 12 | 0 | 0 | 0 | 0 | | | | | | |
| | | Total | 33 | 2 | 0 | 0 | 2 | 3 | 2 | 6 | 2 | 3 | |
| 6 | Feed samples | a Raw | 10 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 3 | |
| | | b Dried | 8 | 0 | 0 | 0 | 0 | | | | | | |
| | | c Heated | 14 | 0 | 0 | 0 | 0 | | | | | | |
| | | Total | 32 | 1 | 0 | 0 | 1 | 3 | 1 | 6 | 1 | 3 | |
| 7 | Meat products | a Raw | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | |
| | | b Delicatessen | 8 | 0 | 0 | 0 | 0 | | | | | | |
| | | c RTE, RTRH | 8 | 0 | 0 | 0 | 0 | | | | | | |
| | | Total | 30 | 0 | 0 | 0 | 0 | 3 | 0 | 6 | 0 | 3 | |
| 8 | PPS | a Faeces | 21 | 4 | 0 | 8 | | | | | -4 | -4 | |
| | | b Non faeces | 13 | 1 | 0 | 1 | | | | | 0 | 0 | |
| | | Total | 34 | 5 | 0 | 9 | | | | | -4 | 4 | |
| | | a Faeces | 18 | 4 | 0 | 7 | | | | | -3 | -3 | |
| 8 | PPS | b Non faeces | 12 | 1 | 0 | 1 | | | | | 0 | 0 | |
| | | Total | 30 | 5 | 0 | 8 | | | | | -3 | 3 | |
| Total Rapid Spin Protocol | | 220 | 9 | 1 | 10 | 4 | 6 | 6 | 16 | -4 | 4 | 0 | |
| Total NA Extraction protocol | | 60 | 5 | 0 | 8 | 0 | 3 | 0 | 6 | -3 | 3 | -3 | |

** PPND not included



PrepSEQ™ Rapid Spin protocol
PrepSEQ™ NA Extraction protocol

The observed values for (ND + PPND) - PD and ND + PPND + PD meet the acceptability limit for each individual category and for all the combined categories (calculated values ≤ AL), regardless of the extraction protocol applied.

3.1.1.8 Confirmation

For the **food and feed products** (PrepSEQ™ Rapid Spin protocol), two confirmation protocols were tested:

- Protocol described in the reference method (RVS and MKTTn);
- Subculture in RVS broth, streaking onto XLD plates and confirmation of the typical colonies using the OXOID latex test.

For 4 samples, the confirmatory tests of the reference method allowed to confirm the positive PCR tests while the simplified protocol (RVS/XLD) gave negative results. This concerns samples n° 1968 (pork liver), 1978 and 1979 (raw milk cheeses) and 2551 (raw milk).

One sample (n° 1985: raw milk) was confirmed using MRSV.

For **primary production samples**, the BPW was streaked onto XLD and IRIS or ASAP plates.

For one sample (n° 1021: pork faeces), a subculture in MKTTn and on MSRV was necessary to confirm the presence of *Salmonella* in the sample.

For **meat products** (PrepSEQ™ NA Extraction protocol), the confirmation was carried out by proceeding to a subculture in RVS broth (6 and 24 h) at 41.5°C before streaking onto XLD and IRIS. Same results were observed for both incubation times of the RVS broth.

3.1.1.9 PCR inhibition

1162 DNA extract were tested, 25 inhibitions were observed representing 2.2 %. The PCR inhibitions observed are listed in Table 12.

For 19 samples, the DNA extracts were tested again without applying any dilution and a PCR result was obtained.

For 5 samples, a PCR result was obtained after a 1/5 dilution was applied. For one sample (2405), a PCR result was obtained after a 1/10 dilution.

Table 12 - PCR inhibitions

| Categories | Extraction protocol | Number of DNA extracts tested | Time | Sample N° | Product | PCR result | Category | Type | Number of inhibitions (%) |
|---------------|------------------------|-------------------------------|------------------------------------|-----------|---|--------------------|----------|------|---------------------------|
| Food and feed | PrepSEQ™ Rapid Spin | 794 | After incubation | 6329 | Raw poultry meat | i/-* | 2 | a | 19 (2.4%) |
| | | | | 6956 | Raw pork meat | i/-* | 2 | b | |
| | | | | 1001 | Goat raw milk | i/- | 3 | a | |
| | | | | 1061 | Raw cow milk cheese | i/+i/i | 3 | a | |
| | | | | 1396 | Raw milk cheese (Brie de Meaux) | i/- | 3 | b | |
| | | | | 2384 | Egg yolk powder | i/i/- | 4 | a | |
| | | | | 6349 | Yolk egg powder | i/-* | 4 | a | |
| | | | | 1007 | Egg yolk | i/- | 4 | b | |
| | | | | 2235 | Liquid egg yolk | i/- | 4 | b | |
| | | | | 6504 | Fish fillet | i/-* | 5 | a | |
| | | | After storage 72 h at 5°C ± 3°C | 2241 | Viscera flour (Feed stuff) | i/+ | 6 | c | |
| | | | | 2243 | Viscera flour (Feed stuff) | i/- | 6 | c | |
| | | | | 6329 | Raw poultry meat | i/-* | 2 | a | |
| | | | | 947 | Dehydrated poultry proteins (Feedstuff) | i/+ | 6 | c | |
| | | | | 948 | Dehydrated poultry proteins (Feedstuff) | i/+ | 6 | c | |
| PPS | PrepSEQ™ Rapid Spin | 140 | After incubation | 1419 | Dehydrated poultry proteins | i/+ | 6 | c | 2 (1.4%) |
| | 1421 | Feedstuff(dehydrated) | i/+ | 6 | c | | | | |
| | PrepSEQ™ NA Extraction | 132 | After incubation | 1424 | Viscera flour | i/+ | 6 | c | 3 (2.3%) |
| | | | | 2241 | Viscera flour (Feed stuff) | i/+ | 6 | c | |
| | | | | 239 | Litter (poultry) | i/- | 8 | b | |
| Meat products | PrepSEQ™ NA Extraction | 96 | After incubation and after storage | 952 | Piped eggs | i/- | 8 | b | 1 (1%) |
| | | | | 1001 | Boot socks(poultry) | i/+ | 8 | a | |
| | | | | 1002 | Boot socks(poultry) | i/+ | 8 | a | |
| | | | | 809 | Pork drinker water | i/- | 8 | b | |
| | | | | 2405 | Ready to reheat (meat) | i/+(20,41) 1/10 | 7 | c | |

3.1.2 Relative level of detection

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

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

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

The relative detection level is the smallest number of culturable microorganisms than can be detected with 50 % of chances in the sample by the alternative and reference methods.

3.1.2.1 Experimental design

Six (matrix/strain) pairs were already analysed by the reference method and by the alternative method according to the protocol defined in the ISO 16140 (2003). An additional matrix/strain pair (Deli salad) was tested using the protocol defined in the ISO 16140-2:2016 for this renewal study (See Table 13).

Table 13 - Defined (matrix/strain) pairs for the RLOD determination

| Category | | Matrix | Strain | Origin | Storage conditions before analysis |
|----------|----------------------------------|------------------------|----------------------------|-------------|------------------------------------|
| 1 | Ready to eat and ready to reheat | Deli salad (macédoine) | Salmonella Mbandaka Ad914 | Mayonnaise | 48 h at 3°C ± 2°C |
| 2 | Meat products | Ground beef | Salmonella Infantis 128 | Ground beef | / |
| 3 | Dairy products | Raw milk | Salmonella Montevideo 510 | Raw milk | / |
| 4 | Egg products | Raw egg product | Salmonella Enteritidis 657 | Egg product | / |
| 5 | Seafood and vegetables | Mushrooms | Salmonella Virchow F276 | Spice | / |
| 6 | Feed products | Dog biscuits | Salmonella Derby 63 | Feed | / |
| 7 | Meat products | Ground beef | Salmonella Infantis 128 | Ground beef | / |
| 8 | Primary production samples | Poultry faeces | Salmonella Agona Ad1306 | Bootsocks | / |
| 8 | Primary production samples | | | | |



PrepSEQ™ Rapid Spin protocol

PrepSEQ™ NA Extraction protocol

3.1.2.2 Calculation and interpretation of the RLOD

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

The RLOD calculations were performed using the Excel spreadsheet available at <http://standards.iso.org/iso/16140> - RLOD (clause 5-1-4-2 Calculation and interpretation of RLOD) version 06.07.2015. The RLOD are given **Table 14**.

Table 14 – Presentation of RLOD before and after confirmation of the alternative method results

| Category | Name | RLOD | RLODL | RLODU | b=ln(RLOD) | sd(b) | z-Test statistic | p-value | AL |
|---|--|--------------|--------------|--------------|--------------|--------------|------------------|--------------|------------|
| 1 | RTE (Macédoine)/ S. Mbandaka Ad914 | 1.000 | 0.430 | 2.327 | 0.000 | 0.422 | 0.000 | 1.000 | 1,5 |
| 2 | Ground beef/ S. Infantis 128 | 1.000 | 0.446 | 2.240 | 0.000 | 0.403 | 0.000 | 1.000 | |
| 3 | Raw milk/ S. Montevideo 510 | 1.000 | 0.466 | 2.146 | 0.000 | 0.382 | 0.000 | 1.000 | |
| 4 | Raw egg product/ S. Enteritidis 657 | 1.000 | 0.466 | 2.146 | 0.000 | 0.382 | 0.000 | 1.000 | |
| 5 | Mushrooms / S. Virchow F276 | 1.000 | 0.456 | 2.195 | 0.000 | 0.393 | 0.000 | 1.000 | |
| 6 | Dog biscuits / S. Derby 630 | 1.000 | 0.435 | 2.298 | 0.000 | 0.416 | 0.000 | 1.000 | |
| 7 | Ground beef/ S. Infantis 128 | 1.000 | 0.368 | 2.718 | 0.000 | 0.500 | 0.000 | 1.000 | |
| 8 | Poultry faeces / S. Agona 1306 | 1.226 | 0.527 | 2.855 | 0.204 | 0.423 | 0.483 | 0.629 | 2,5 |
| | Poultry faeces / S. Agona 1306 | 1.226 | 0.527 | 2.855 | 0.204 | 0.423 | 0.483 | 0.629 | |
| Combined results Prep SEQ Rapid Spin | | 1.019 | 0.754 | 1.375 | 0.018 | 0.150 | 0.123 | 0.902 | / |
| Combined results Prep SEQ NA | | 1.079 | 0.574 | 2.028 | 0.076 | 0.316 | 0.240 | 0.810 | / |

| | |
|--|---------------------------------|
| | PrepSEQ™ Rapid Spin protocol |
| | PrepSEQ™ NA Extraction protocol |

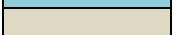
The RLOD are below the AL fixed at 2.5 for an unpaired study design or at 1.5 for a paired study design for all the tested matrix/strain pairs, regardless of the extraction protocol applied.

The LOD₅₀ % calculations according to Wilrich & Wilrich POD-LOD calculation program - version 10, 2021-05-04 test are given in Table 15.

Table 15 - LOD₅₀ results

| Category | (Strain / matrix) pair | Level of detection at 50% (CFU / sample size) according to Wilrich & Wilrich ¹ | |
|---|-------------------------------------|--|----------------------|
| | | Reference method | Alternative method |
| 1 | RTE (Macédoine)/S. Mbandaka Ad914 | 0.8 [0.4;1.4] | 0.8 [0.4;1.4] |
| 2 | Ground beef/ S. Infantis 128 | 0.6 [0.4;1.0] | 0.6 [0.4;1.0] |
| 3 | Raw milk/ S. Montevideo 510 | 0.3 [0.2;0.6] | 0.3 [0.2;0.6] |
| 4 | Raw egg product/ S. Enteritidis 657 | 0.8 [0.4;1.5] | 0.8 [0.4;1.5] |
| 5 | Mushrooms / S. Virchow F276 | 0.3 [0.2;0.6] | 0.3 [0.2;0.6] |
| 6 | Dog biscuits / S. Derby 630 | 1.0 [0.5;1.8] | 1.0 [0.5;1.8] |
| 7 | Ground beef/ S. Infantis 128 | 0.2 [0.1;0.4] | 0.2 [0.1;0.4] |
| 8 | Poultry faeces / S. Agona 1306 | 0.5 [0.2;1.0] | 0.5 [0.2;1.0] |
| | Poultry faeces / S. Agona 1306 | 0.5 [0.2;1.0] | 0.6 [0.3;1.2] |
| Combined results Prep SEQ Rapid Spin | | 0.6 [0.5;0.8] | 0.6 [0.5;0.8] |
| Combined results Prep SEQ NA | | 0.3 [0.2;0.5] | 0.3 [0.2;0.6] |

 PrepSEQ™ Rapid Spin protocol

 PrepSEQ™ NA Extraction protocol

3.1.3 Inclusivity / exclusivity

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

3.1.3.1 Test protocols



Initial validation (2010)

For inclusivity, 54 *Salmonella* strains were tested. Cultures were performed in BHI medium at 37°C. Dilutions were done in BPW in order to inoculate between 10 to 100 cells/225 ml BPW. The alternative method protocol was then performed (BPW incubation time: 16 h).

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

For exclusivity, 33 negative strains were tested. Cultures were performed in BHI, incubated at 37°C. Dilutions were done in order to inoculate 10^5 cell/ml BPW. The alternative method protocol was then performed (BPW incubation time: 20 h)



PPS extension with both extraction protocols (2012)

For inclusivity, 50 *Salmonella* strain cultures were performed in BHI medium at 37°C. Dilutions were done in order to inoculate 10 cells/225 ml in Tetrathionate broth (225 ml + 25 ml sterile water). The alternative method was then performed (BPW incubation time: 16 h). Additional assays were done by adding sterilized faeces in the primary enrichment broth of the alternative and reference methods. This is supposed to decrease the selectivity of the enrichment broths.

Exclusivity was not performed again for this extension study.



Meat products extension with NA Extraction protocol (2013)

Inclusivity and exclusivity were not performed again for this extension study.



Renewal validation study (2018)

50 *Salmonella* strains were tested in order to fulfil the ISO 16140-2:2016 requirements. They were tested using the protocol dedicated to primary production samples.

4 additional *Salmonella houtenae* strains were tested to complete the study.

3.1.3.2 Results

The inclusivity and exclusivity results are presented in **Appendix 8**.

A summary of the results is given in **Table 16**.

Table 16 - Summary of the results

| Year of study | Enrichment broth | Inclusivity | | | Exclusivity | |
|---------------------|---|-----------------------------------|--|---|--------------------------------|--|
| | | Number of strains tested | Number of positive results obtained | Number of negative results obtained | Number of strains tested | Number of positive results obtained |
| 2010 | BPW for 16 h at 34-38°C | 54 | 54 | 0 | 33 | 0 |
| 2012 | TT Broth+I ₂ KI+Brilliant Green 16h at 34-38°C + BPW for 4 h at 34-38°C | 50 | 43 (inoculation level between 1-100 CFU/225ml) | 0 | / | / |
| | | | 4 (inoculation 100-550 CFU/225ml) | | / | / |
| | | | 7 (+ 25g faeces) | 1 ⁽¹⁾ | / | / |
| 2018 | TT Broth+I ₂ KI +Brilliant Green 16h at 34-38°C + BPW for 4 h at 34-38°C | 50 | 45 (inoculation level 1-100 CFU/225ml) | 5 | / | / |
| | | | 4 (inoculation 50-151 CFU/225ml + 25g faeces) | 1 ⁽²⁾ | / | / |

(1): *S.diarizonae* Ad1301(2): *S.houtenae* Ad596

Inclusivity

 Initial validation (2010)

The 54 target strains showed positive results.

 PPS extension with both extraction protocols (2012)

Among the 50 strains tested, 43 gave a PCR positive result with the two extraction protocols when the Tetrathionate broth was inoculated at a level comprised between 1 and 100 CFU/225 ml.

For 4 strains (*Salmonella diarizonae* 451, *Salmonella Napoli* Ad928, *Salmonella Rissen* 39 and the non-mobile variant *Salmonella Typhimurium* Ad1333), positive PCR results were observed at a level comprised between 100 and 550 CFU/225 ml. Note that *Salmonella diarizonae* 451 is detected by the Rapid Spin protocol only.

For 3 strains (*Salmonella arizona* CIP 5523, *Salmonella Gallinarum* Ad300 and *Salmonella Paratyphi A* ATCC 9150), negative PCR results were observed whatever the inoculation level.

These strains are detected by the tested method when a single enrichment in BPW is done, even at an inoculation level lower than 100 CFU/225 ml:

- *Salmonella diarizonae* 451,
- *Salmonella Napoli* Ad928,
- *Salmonella Rissen* 39,
- *Salmonella arizona*e CIP 5523,
- *Salmonella gallinarum* Ad300,
- *Salmonella Paratyphi A* ATCC 9150.

Note that the *Salmonella Typhimurium* Ad1333 strain was not tested during the initial validation study.

The observed results are thus due to the sub-culture in TTbroth+I₂KI+Brilliant Green.

Additional assays were done by adding sterilized faeces in the primary enrichment broth of the alternative and reference methods.

In this case all the target strains were detected by the kit, except the *S. diarizonae* Ad1301. When using the ISO 6579/A1 reference method, negative results were observed with the 2 tested *S. Paratyphi* strains, as well as the 2 *S. Gallinarum* strains. The U47-100 reference method was not able to detect the *S. Gallinarum* Ad300 strain.



Renewal study (2018)

For the renewal study, 50 *Salmonella* strains were tested; all gave a positive PCR result (with adding matrix in the enrichment broth for 4 of them), except *Salmonella houtenae* Ad596. Note that another *Salmonella houtenae* strain (Ad597) was tested for the initial validation study and gave a positive PCR result. 4 other strains from the same subspecies were tested; one gave positive PCR results for both extraction protocols (PrepSEQ™ Rapid Spin protocol and PrepSEQ™ NA Extraction protocol) (*Salmonella houtenae* Ad597). One strain (*Salmonella houtenae* Ad2682) gave a positive PCR result only with the PrepSEQ™ Rapid Spin protocol. The two other strains (Ad1834 and Ad2681) gave negative PCR results.

Exclusivity (2010)

The 33 tested non-target strains showed negative results. One *Salmonella* Bongori (Ad599) gave a positive PCR result when inoculated at a high level (10^5 cells/225 ml) but gave finally a negative result when inoculated at a low level (6 cells/225 ml).

3.1.4 Practicability

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

| | | |
|--|--|---|
| Storage conditions and shelf-life | <ul style="list-style-type: none"> - Rapid Spin Lysis buffer : 2 – 8°C - Proteinase K: - 15 – 25°C - Nuclease free water: room temperature - Box PrepSEQ NA Extraction: room temperature - Magnetic particles: 2 – 8°C, at room temperature after preheating. - Pathogen negative control: 2 – 8°C <p>The shelf life is given on the package</p> <ul style="list-style-type: none"> - Box PrepSEQ NA Extraction: 12 months after manufacturing - MicroSEQ Salmonella detection kit: 18 months after manufacturing <p>All the reagents shall be stored at the temperature mentioned on the package.</p> | |
| Time to result | Reference method (ISO 6579/A1) | Alternative method MicroSEQ® Salmonella (Rapid Spin and NA Extraction) |
| Steps | | |
| Sampling, pre-enrichment | Day 0 | Day 0 |
| Subculture (RVS, MKTTn, MSRV) inoculation | Day 1 | / |
| Streaking onto selective agar plates | Day 2-Day 3 | |
| Enrichment (BPW) | / | Day 1 |
| Extraction | / | Day 1 |
| PCR | / | Day 1 |
| Selective agar plates reading | Day 3 – Day 4 | / |
| Negative result | Day 3-Day 4 | Day 1 |
| Alternative method confirmatory tests | | |
| BPW subculture into RVS broth | / | Day 1 |
| Streaking BPW onto <i>Salmonella</i> selective agar plates | / | Day 2 |
| <i>Salmonella</i> selective agar plates reading | / | Day 3 |
| Latex test on typical colonies | / | Day 3 |
| Positive result | / | Day 3 |
| Reference method confirmatory tests | | |
| Streaking XLD, MKTTN, MSRV onto selective agars | Day 2 – Day 3 | / |
| Selective agars reading | Day 3 – Day 4 | / |
| Biochemical tests | Day 3 – Day 4 | / |
| Serological tests and biochemical tests reading | Day 4 – Day 5 | / |
| Tests results | Day4-Day 5 | / |
| Positive result | Day 4 – Day 5 | / |
| Common step with the reference method | There is no common step with the reference method. | |

The negative results are available in one day and the positive results in three days using the alternative method.

3.2 Inter-laboratory study

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

The data obtained during the initial and extension studies were interpreted according to the EN ISO 16140-2 (2016).

3.2.1 Study organisation

Collaborators number

Samples were sent to 15 laboratories.

Matrix and strain used

The study was carried out with ground beef samples contaminated with *Salmonella* Typhimurium A00C060.

Samples

Samples were inoculated and sent on Monday 5 July 2010, as described below:

- 24 blind samples for *Salmonella* detection by the MicroSEQ *Salmonella* method and by the reference method (ISO 6579:2002),
- 1 ground beef sample for the aerobic mesophilic flora enumeration by ISO 4833 method,
- 1 water flask labelled “Temperature Control” with a temperature probe, which records the temperature variations during transportation.

The analyses were started on Wednesday 7 July 2010.

 *Inoculation*

The targeted inoculation levels were:

- Level 0: 0 CFU/g,
- Level 1: 5 CFU/g,
- Level 2: 25 CFU/g.

Each laboratory received 24 samples of 25 g, i.e. 8 samples per inoculation level and method.

 *Labelling and shipping*

Blinded samples (code is only known by the expert laboratory) were placed in isothermal boxes, which contained cooling blocks, and express-shipped to the different laboratories.

A temperature control flask containing a temperature probe was added to the package in order to register the temperature profile during the transport, package delivery.

Samples were shipped in 24 h to 48 h to the different laboratories. Sample temperature had to stay lower or equal to 8.4°C during transport, and between 0°C – 8.4°C at arrival.

 *Analyses*

Collaborative study laboratories and the expert laboratory carried out the analyses with the alternative and reference methods at day 2.

3.2.2 *Experimental parameters controls*

3.2.2.1 *Strain stability and background microflora stability*

Sample stability was performed by inoculating the matrix at 25 CFU/25 g and 5 CFU/25 g. Enumerations were performed on 2.5 g of ground beef samples for the high contamination level and detection analyses were performed for the low contamination level. *Triplicates* were analyzed. The aerobic mesophilic flora was also enumerated; the results are given in Table 17.

Table 17 - Sample stability

| Day | Reference method (detection) | | | CFU/25 g (XLD) | | | Aerobic mesophilic flora (CFU/g) |
|-------|------------------------------|----------|----------|----------------|----------|----------|----------------------------------|
| | Sample 1 | Sample 2 | Sample 3 | Sample 1 | Sample 2 | Sample 3 | |
| | | | | < 10 | 30 | 30 | |
| Day 0 | + | + | + | < 10 | 30 | 30 | 1.5x10 ⁴ |
| Day 1 | + | + | + | 20 | 20 | 40 | 3.4x10 ⁴ |
| Day 2 | + | + | + | 30 | 30 | 10 | 1.6x10 ⁵ |

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

3.2.2.2 Contamination levels

The contamination levels and the sample codification were the following (see **Table 18**).

Table 18 - Contamination levels

| Level | Samples | Theoretical target level (CFU/25 g) | True level (CFU/25 g sample) | Low limit CFU/25 g sample | High limit CFU/25 g sample |
|------------|------------------------------------|-------------------------------------|------------------------------|---------------------------|----------------------------|
| Level 0 | 3 – 4 – 8 – 11 – 13 – 18 – 21 – 24 | 0 | / | / | / |
| Low level | 1 – 6 – 7 – 12 – 14 – 16 – 20 – 23 | 5 | 3.8 | 3.3 | 4.4 |
| High level | 2 – 5 – 9 – 10 – 15 – 17 – 19 – 22 | 25 | 20.3 | 17.6 | 23.3 |

3.2.3 Logistic conditions

Temperature conditions are given in **Table 19**.

Table 19 - Sample temperatures at receipt

| Laboratories | Temperature measured by the temperature probe (°C) | Temperature measured at receipt (°C) | Receipt delay | Day of analysis |
|--------------|--|--------------------------------------|---------------|-----------------|
| A | 5.0 | 6.3 | Day 1 – 11h00 | Day 2 |
| B | 5.0 | 6.8 | Day 1 – 11h45 | Day 2 |
| C | 4.0 | 6.5 | Day 1 – 10h30 | Day 2 |
| D | 4.5 | 9.4 | Day 1 – 10h45 | Day 2 |
| E | 4.0 | 3.7 | Day 1 – 10h40 | Day 2 |
| F | 2.5 | 5.3 | Day 1 – 09h10 | Day 2 |
| G | 4.0 | 7.8 | Day 1 – 13h45 | Day 2 |
| H | 5.0 | 6.3 | Day 1 – 11h45 | Day 2 |
| I | 4.5 | 2.0 | Day 1 – 08h00 | Day 1 |
| J | 4.0 | 6.7 | Day 1 – 09h45 | Day 2 |
| K | 4.0 | 8.2 | Day 1 – 10h30 | Day 2 |
| L | 24.0 | 25.0 | Day 2 – 17h15 | Day 2 |
| M | 5.0 | <i>Not measured</i> | Day 1 – 10h30 | Day 2 |
| N | 5.0 | 11.2 | Day 1 – 10h55 | Day 2 |
| O | 6.5 | 8.0 | Day 1 – 12h00 | Day 2 |

No problem was encountered during the transport or at receipt, except for two Labs:

- Lab L received his parcel at Day 2 at 25°C,
- For Lab N, the temperature measured at receipt was 11.2°C, but the probe indicated 5.0°C.

3.2.4 Results analysis

The raw data are given in **Appendix 9**.

3.2.4.1 Expert laboratory results

The results obtained by the expert laboratory are given in **Table 20**.

Table 20 – Results obtained by the expert Lab.

| Level | Reference method | Alternative method |
|-------|------------------|--------------------|
| L0 | 0/8 | 0/8 |
| L1 | 8/8 | 8/8 |
| L2 | 8/8 | 8/8 |

3.2.4.2 Results observed by the collaborative laboratories

Aerobic mesophilic flora enumeration

Four Labs did not realize/run this analysis. Depending on the Lab results, the enumeration levels varied from 3.7×10^3 to 2.0×10^5 CFU/g.

Salmonella spp. detection

15 collaborators participated to the study. The results obtained are provided in **Table 21** (reference method) and **Table 22** (alternative method).

**Table 21 - Positive results by the reference method
(ALL the collaborators: 15 laboratories)**

| Collaborators | Contamination level | | |
|---------------|---------------------|-----|-----|
| | L0 | L1 | L2 |
| A | 0 | 8 | 8 |
| B | 0 | 8 | 8 |
| C | 0 | 8 | 8 |
| D | 0 | 8 | 8 |
| E | 0 | 8 | 8 |
| F | 0 | 8 | 8 |
| G | 0 | 8 | 8 |
| H | 0 | 8 | 8 |
| I | 0 | 8 | 8 |
| J | 0 | 8 | 8 |
| K | 0 | 8 | 8 |
| L | 0 | 8 | 8 |
| M | 0 | 8 | 8 |
| N | 1 | 7 | 8 |
| O | 0 | 8 | 8 |
| Total | 1 | 119 | 120 |

Table 22 - Positive results (before and after confirmation) by the alternative method (ALL the collaborators: 15 laboratories)

| Collaborators | Contamination level | | | | | | | | |
|---------------|---------------------|---------------------|--------------|------------|---------------------|--------------|------------|---------------------|--------------|
| | L0 | | | L1 | | | L2 | | |
| | PCR result | Confirmation result | Final result | PCR result | Confirmation result | Final result | PCR result | Confirmation result | Final result |
| A | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| B | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| C | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| D | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| E | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| F | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| G | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| H | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| I | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| J | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| K | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| L | 1 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| M | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| N | 1 | 1 | 0 | 7 | 7 | 7 | 8 | 8 | 8 |
| O | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| Total | 2 | 1 | 0 | 119 | 119 | 119 | 120 | 120 | 120 |

According to the AFNOR technical rules, it is possible to include the results from a collaborator with maximum one cross contamination at Level 0. For this study, this rule was applied for Lab N.

The data set from Lab L was not kept for interpretation as the samples were received at 25°C.

Lab I analysed the samples at Day 1 while all the labs were supposed to carry out the analyses at Day 2; the data set from this Lab was not kept.

3.2.4.3 Results of the collaborators retained for interpretation

The results obtained with the 13 labs kept for interpretation are presented in **Table 23** (reference method) and **Table 24** (alternative method).

**Table 23 - Positive results by the reference method
(Without Labs I and L)**

| Collaborators | Contamination level | | |
|---------------|---------------------|-----|-----|
| | L0 | L1 | L2 |
| A | 0 | 8 | 8 |
| B | 0 | 8 | 8 |
| C | 0 | 8 | 8 |
| D | 0 | 8 | 8 |
| E | 0 | 8 | 8 |
| F | 0 | 8 | 8 |
| G | 0 | 8 | 8 |
| H | 0 | 8 | 8 |
| J | 0 | 8 | 8 |
| K | 0 | 8 | 8 |
| M | 0 | 8 | 8 |
| N | 1 | 7 | 8 |
| O | 0 | 8 | 8 |
| Total | 1 | 103 | 104 |

**Table 24 - Positive results (before and after confirmation)
by the alternative method (Without Labs I and L)**

| Collaborators | Contamination level | | | | | | | | |
|---------------|---------------------|---------------------|--------------|------------|---------------------|--------------|------------|---------------------|--------------|
| | L0 | | | L1 | | | L2 | | |
| | PCR result | Confirmation result | Final result | PCR result | Confirmation result | Final result | PCR result | Confirmation result | Final result |
| A | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| B | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| C | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| D | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| E | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| F | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| G | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| H | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| J | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| K | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| M | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| N | 1 | 1 | 1 | 7 | 7 | 7 | 8 | 8 | 8 |
| O | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| Total | 1 | 1 | 1 | 103 | 103 | 103 | 104 | 104 | 104 |

3.2.5 Calculation and interpretation

3.2.5.1 Calculation of the specificity percentage (SP)

The percentage specificities (SP) of the reference method and of the alternative method, using the data after confirmation, based on the results of level L0 are the following (See **Table 25**).

Table 25 - Percentage specificity

| | | |
|--|---|--------|
| Specificity for the reference method | $SP_{ref} = \left(1 - \left(\frac{P_0}{N_-}\right)\right) \times 100 \% =$ | 99.1 % |
| Specificity for the alternative method | $SP_{alt} = \left(1 - \left(\frac{CP_0}{N_-}\right)\right) \times 100 \% =$ | 99.1 % |

N: number of all L0 tests

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

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

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

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

A summary of the results of the collaborators retained for interpretation and obtained with the reference and the alternative methods for Level 1 is provided in **Table 26**.

Table 26 - Summary of the obtained results with the reference method and the alternative method for Level 1

| Response | Reference method positive (R+) | Reference method negative (R-) |
|----------------------------------|---|---|
| Alternative method positive (A+) | Positive agreement (A+/R+) PA = 103 | Positive deviation (R-/A+) PD = 0 |
| Alternative method negative (A-) | Negative deviation (A-/R+) ND = 0 (PPND = 0) | Negative agreement (A-/R-) NA = 1 (PPNA = 0) |

Based on the data summarized in **Table 26**, the values of sensitivity of the alternative and reference methods, as well as the relative trueness and false positive ratio for the alternative method taking account the confirmations, are the following (See **Table 27**).

Table 27 - Sensitivity, relative trueness and false positive ratio percentages

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

3.2.6 Interpretation of data

No negative or positive deviation was observed for this inter-laboratory study.

For a **paired study design**, the difference between (ND – PD) and the addition (ND + PD) are calculated for the level(s) where fractional recovery is obtained (so L_1 and possibly L_2). The observed value found for (ND – PD) and (ND + PD) shall not be higher than the AL.

For 14 Labs, the limits are the following:

| | Calculated values | AL (13 labs) | Conclusion |
|---------|-------------------|--------------|--------------|
| ND - PD | 0 | 4 | ND - PD < AL |
| ND + PD | 0 | 5 | ND + PD < AL |

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

3.2.7 Evaluation of the LOD_{50%}, LOD_{95%} and RLOD between laboratories

The RLOD was calculated using the EN ISO 16140-2:2016 Excel spreadsheet available at http://standards.iso.org/iso/16140/-2/ed-1/en/RLOD_inter-lab-study_16140-2_AnnexF_ver1_28-06-2017.xls.

RLOD could not be calculated as one positive result was obtained for an unspiked sample for one Collaborator with both methods.

3.3 Conclusion

The **method comparison study conclusions** are:

- The method comparison study scheme corresponds to a paired study design for food and feed products and to an unpaired study design for primary production samples.
- In the sensitivity study, eight categories were tested: 7 food categories and primary production samples. The protocol of the alternative method shows 10 or 8 positive deviations (PD) and 11 and 6 negative deviations (ND) for the overall categories depending on the extraction protocol.

The ((ND+PPND) - PD) and (ND + PD + PPND) meet the acceptability limits (AL) for each individual category and for all the combined categories.

- The Relative Levels of Detection (RLOD) are all below the AL whatever the matrix/strain pairs.
- The inclusivity and exclusivity testing gave satisfying results.
- It is possible to store the primary enrichment broth for 72 h at $5 \pm 3^\circ\text{C}$.
- The alternative method allows a one-day screening of the negative samples.
- The alternative method fulfils all the EN ISO 16140-2:2016 and AFNOR technical rules (revision 6).

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

- The data and interpretations comply with the EN ISO 16140-2:2016 requirements. **The MicroSEQ Salmonella method is considered equivalent to the ISO standard.**

Quimper, 04 July 2022

Maryse RANNOU

Project Manager

Validation of Alternative methods

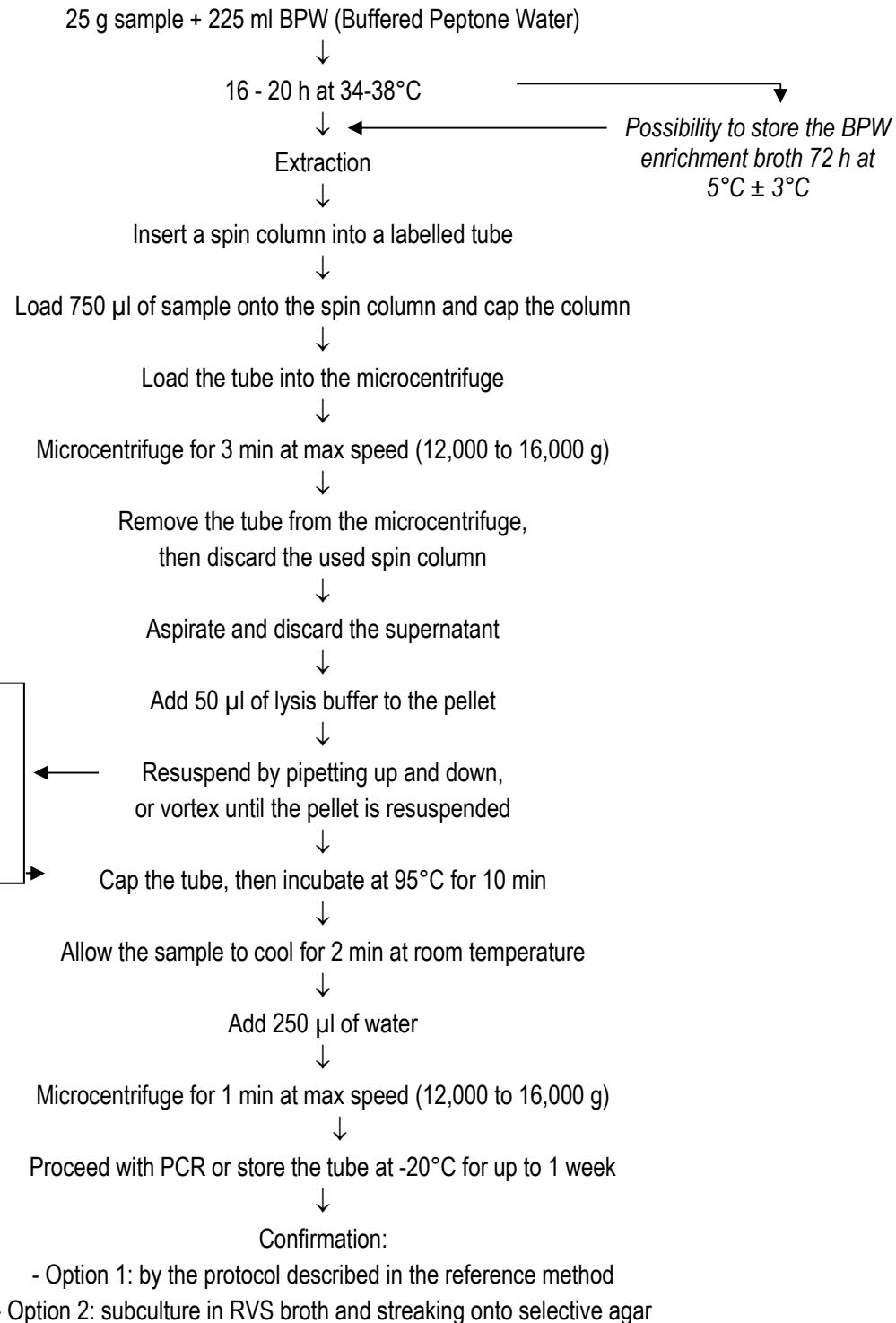
Food Safety & Quality



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

Appendix 1 – Flow diagram of the alternative method for ALL food and feed products (Initial validation – 2010)

PrepSEQ™ Rapid Spin protocol

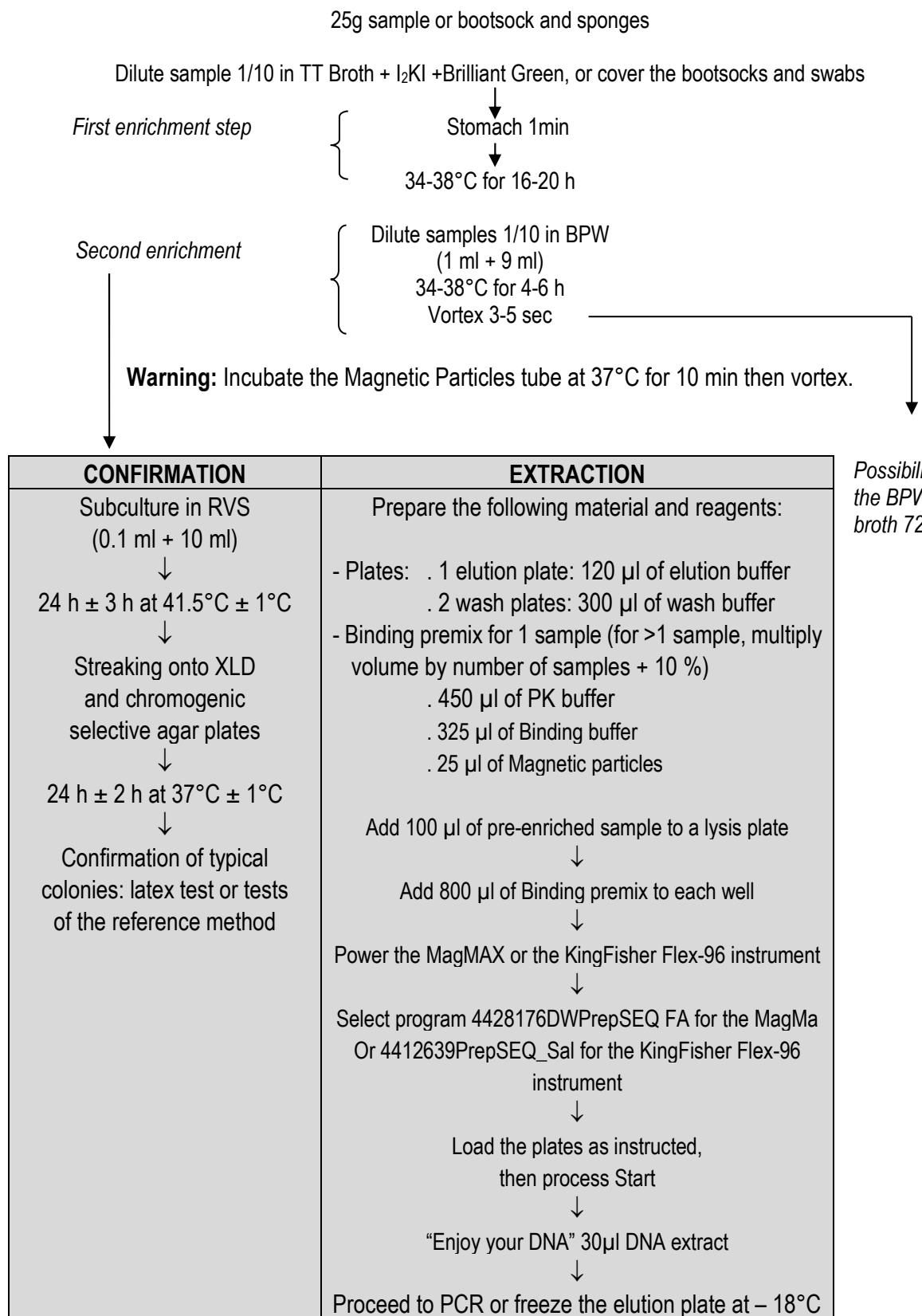


Kits:

- PreSEQ™ Rapid Spin sample preparation kit (Cat n° 4407760)
- PreSEQ™ Rapid Spin sample preparation kit - Extra Clean (Cat n° 4413269)
- MicroSEQ® *Salmonella* spp. Detection kit (Cat. n° 4403930)

Appendix 2 – Flow diagram of the alternative method for primary production samples (Extension study – 2012)

PrepSEQ™ Nucleic Acid Extraction protocol



Kits: PrepSEQ™ Nucleic Acid Extraction kit (Cat n° 4480466, or 4428176)

MicroSEQ® *Salmonella* spp. Detection kit (Cat. n° 4403930)

ADRIA Développement

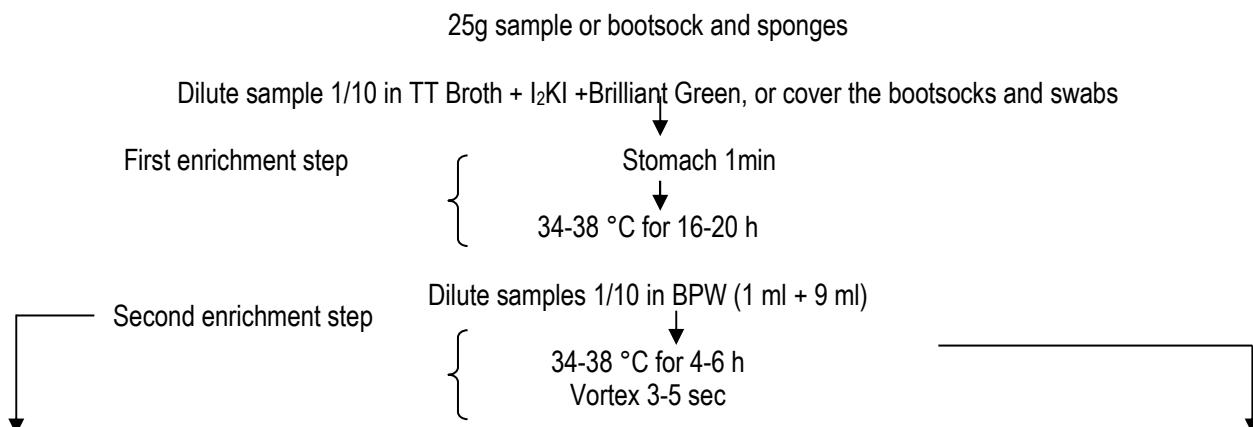
41/111

04 July 2022

Summary report (Version 0)

MicroSEQ® *Salmonella* spp method

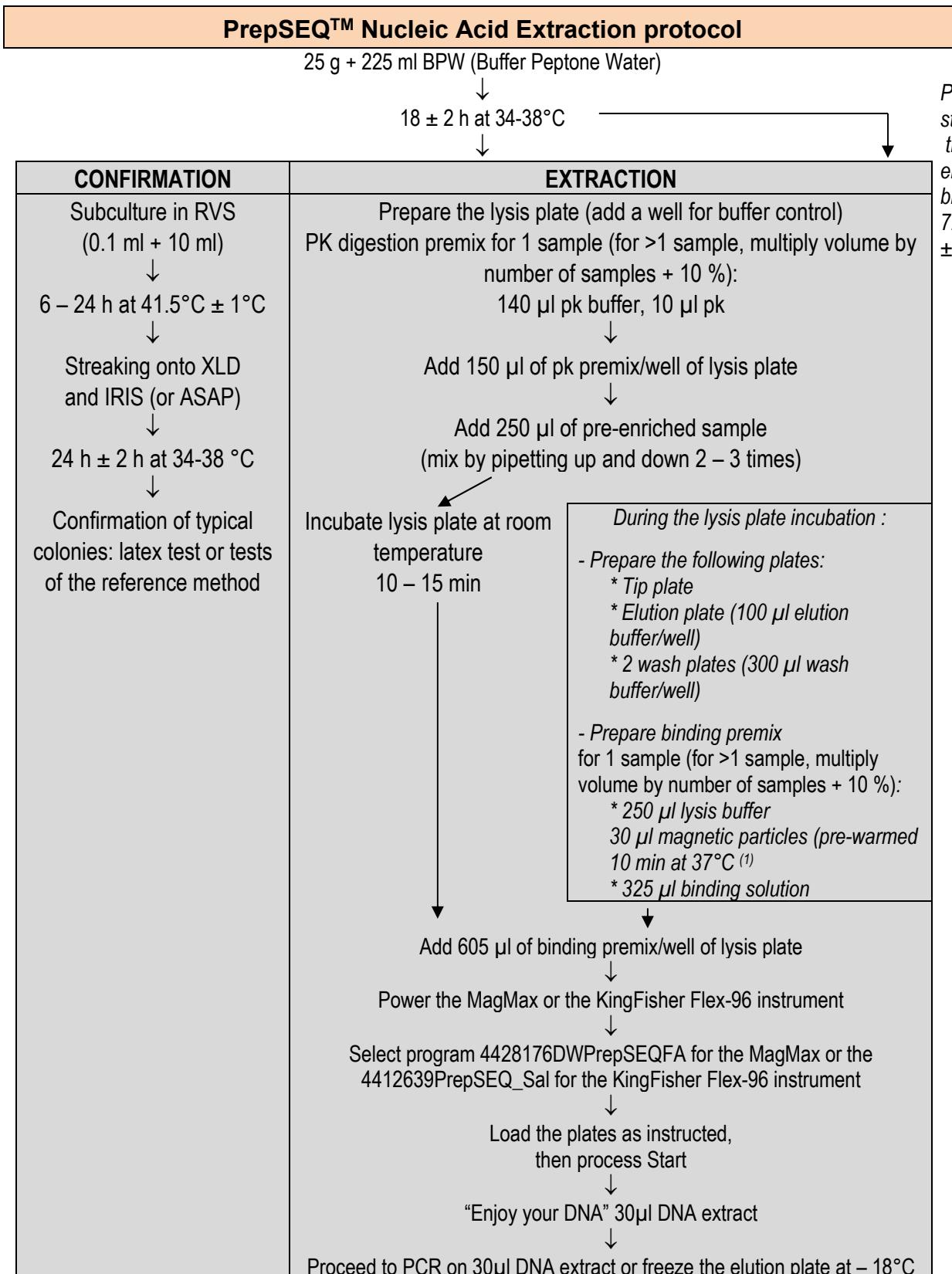
PrepSEQ™ RapidSpin Extraction protocol



| CONFIRMATION | EXTRACTION |
|---|--|
| <p>Subculture in RVS (0.1 ml + 10 ml) ↓ 24 h ± 3 h at 41.5°C ± 1°C ↓ Streaking onto XLD and chromogenic selective agar plates ↓ 24 h ± 2 h at 37°C ± 1°C ↓ Note the presence or not of typical colonies ↓ Confirmation of typical colonies: latex test or tests of the reference method</p> | <p>Prepare a PK lysis buffer mix (for >1 sample, multiply volume by number of samples + 10 %): - 50 µl lysis buffer - 5 µl proteinase K } For 1 sample</p> <p>Warning: use the mix within 30min or store on ice and use within 2 hours</p> <p>750 µl onto the spin column ↓ Centrifuge 3min at 12,000-16,000g ↓ Remove and discard the spin column ↓ Aspirate and discard the supernatant ↓ Add 55µl of PK lysis buffer mix to the pelleted sample ↓ Resuspend by pipeting up and down 10-15 times ↓ Transfer to a clean labelled Eppendorf tube ↓ 56°C ± 1°C 30 min ↓ 95-100°C 10 min ↓ 2min at ambient T°C ↓ Centrifuge 30-60sec at 12000-16000g ↓ Add 250µL of Nuclease Free Water ↓ Centrifuge 1 to 3 min at 12000-16000g ↓ PCR on 30µl DNA extract or store at -20°C ↓ Confirmatory tests</p> |

Kits: PrepSEQ™ Rapid Spin Sample Preparation kit – Extra Clean with proteinase K (Cat n° 4426715)
MicroSEQ® *Salmonella* spp. Detection kit (Cat. n° 4403930)

**Appendix 3 – Flow diagram of the alternative method
for meat products (Extension study – 2013)**



(1) If after 10 min, the precipitate is not completely dissolved, the longer incubation and higher temperature (up to 50°C) can be used.

Kits: PrepSEQ™ Nucleic Acid Extraction kit (Cat n° 4480466, or 4428176)

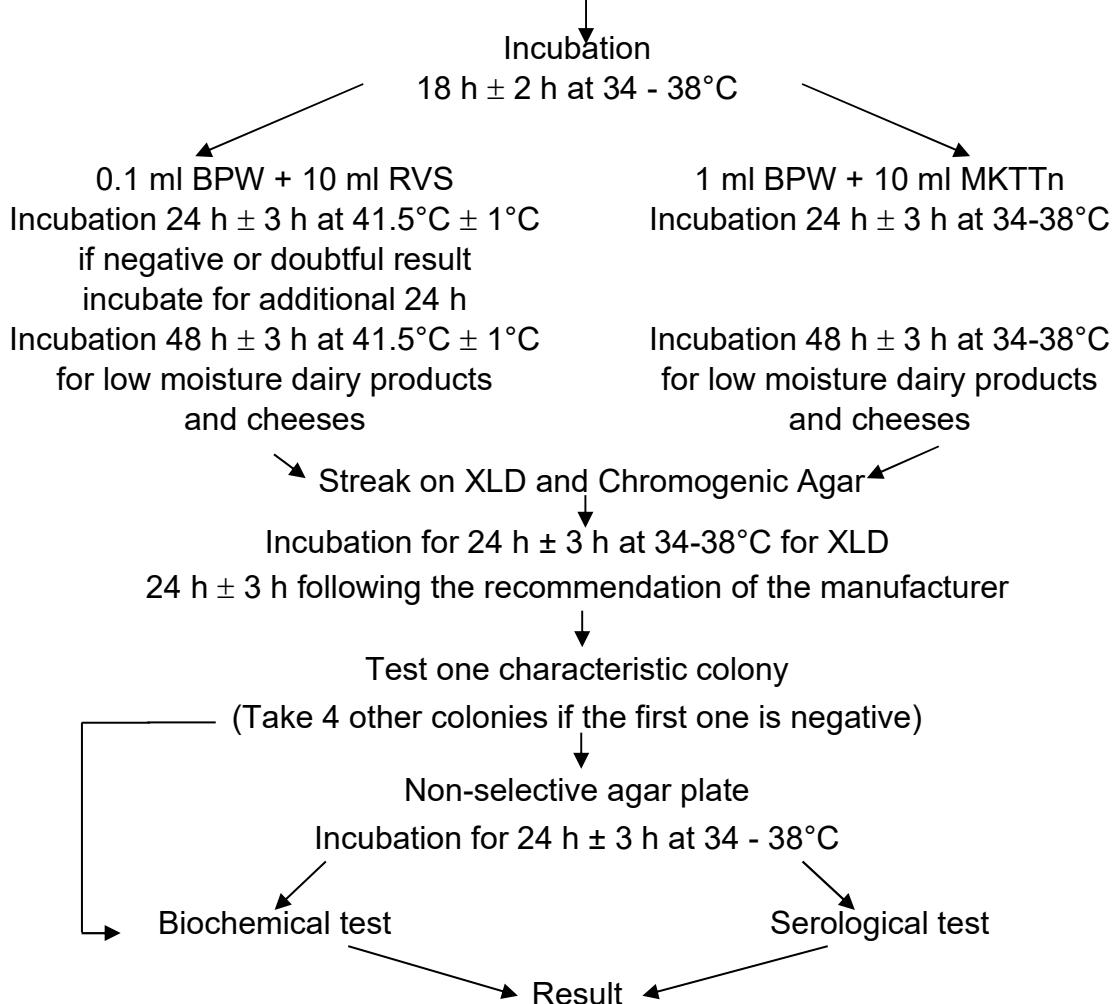
MicroSEQ® Salmonella spp. Detection kit (Cat. n° 4403930)

Appendix 4 – Flow diagram of the reference method: ISO 6579-1 (2017) & ISO 6579-1/A1 (2020)

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

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

25 g of sample + 225 ml BPW
or 375 g of sample + 3 375 ml pre-warmed BPW
or specific enrichment according to ISO 6887 parts
For chocolates and cocoa based product: xg + 9 x ml UHT skimmed milk²
1 swab + 10 ml BPW³
1 sponge + 100 ml BPW
1 wipe + 225 ml BPW

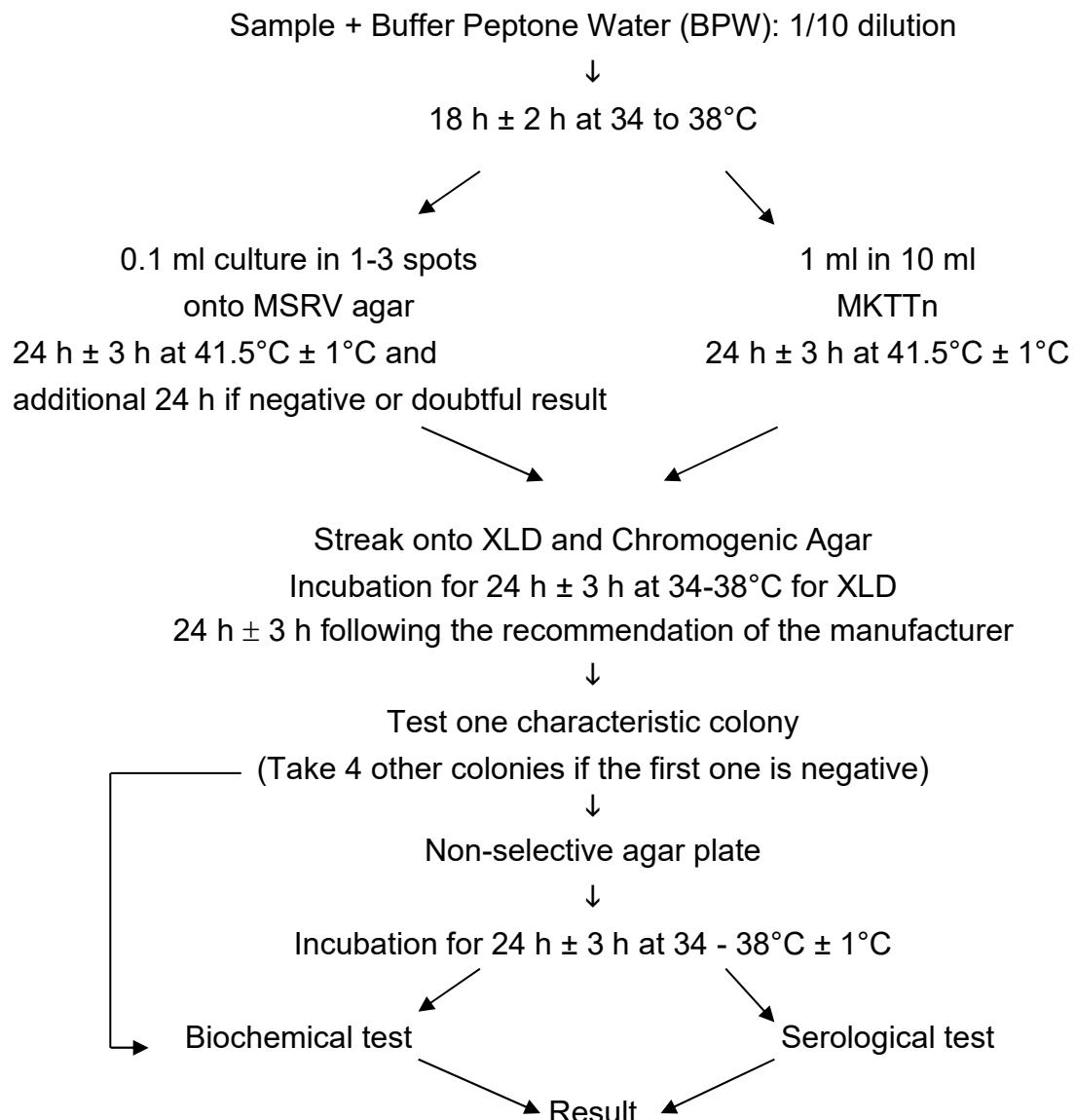


² For chocolates products containing > 20 % fat, unless the products already contain sufficient emulsifier, add Tween 80

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

³ For sampling after cleaning process premoisten

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

Primary production samples: faeces and environmental samples

Appendix 5 - Artificial contamination of the samples

| Year of analysis | Sample N° | Product | Artificial contaminations (spiking protocol) | | | | | Global result | Category | Type |
|------------------|-----------|---|--|-------------------------------|---|--------------------|---------------------------|---------------|----------|------|
| | | | Strain | Origin | Injury protocol | Injury measurement | Inoculation level/ sample | | | |
| 2010 | 1114 | Basquaise chicken preparation | S. Panama 195 | Ground beef | Spiking 3 days 4°C/ HT 56°C 16 min/2 days 4°C | >4,23 | 1-2-5-2-2(2,4) | 2,4 | + | 1 b |
| 2010 | 1115 | Ready to eat food with lamb (Navarin) | S. Panama 195 | Ground beef | Spiking 3 days 4°C/ HT 56°C 16 min/2 days 4°C | >4,23 | 1-2-5-2-2(2,4) | 2,4 | + | 1 b |
| 2010 | 1116 | Couscous | S. Panama 195 | Ground beef | Spiking 3 days 4°C/ HT 56°C 16 min/2 days 4°C | >4,23 | 1-2-5-2-2(2,4) | 2,4 | + | 1 b |
| 2010 | 1117 | Ready to eat food with veal (Italian dressing) | S. Panama 195 | Ground beef | Spiking 3 days 4°C/ HT 56°C 16 min/2 days 4°C | >4,23 | 1-2-5-2-2(2,4) | 2,4 | + | 1 b |
| 2010 | 1118 | Cooked shrimps | S. Senftenberg Ad355 | Sea food product | Spiking 3 days 4°C/ HT 56°C 16 min/2 days 4°C | >4,34 | 5-3-1-5-4(3,6) | 3,6 | + | 5 a |
| 2010 | 1119 | Crayfish tails | S. Senftenberg Ad355 | Sea food product | Spiking 3 days 4°C/ HT 56°C 16 min/2 days 4°C | >4,34 | 5-3-1-5-4(3,6) | 3,6 | + | 5 a |
| 2010 | 1120 | Mussels (marinière) | S. Senftenberg Ad355 | Sea food product | Spiking 3 days 4°C/ HT 56°C 16 min/2 days 4°C | >4,34 | 5-3-1-5-4(3,6) | 3,6 | + | 1 b |
| 2010 | 1121 | Salmon terrine | S. Senftenberg Ad355 | Sea food product | Spiking 3 days 4°C/ HT 56°C 16 min/2 days 4°C | >4,34 | 5-3-1-5-4(3,6) | 3,6 | + | 1 a |
| 2010 | 1122 | Egg based dessert (île flottante) | S. Infantis 14 | Pasteurized whole egg product | Spiking 3 days 4°C/ HT 56°C 16 min/2 days 4°C | >4,60 | 1-3-1-3-1(1,8) | 1,8 | + | 4 c |
| 2010 | 1123 | Egg based cream (vanilla flavor) | S. Infantis 14 | Pasteurized whole egg product | Spiking 3 days 4°C/ HT 56°C 16 min/2 days 4°C | >4,60 | 1-3-1-3-1(1,8) | 1,8 | + | 4 c |
| 2010 | 1124 | Chocolate mousse | S. Infantis 14 | Pasteurized whole egg product | Spiking 3 days 4°C/ HT 56°C 16 min/2 days 4°C | >4,60 | 1-3-1-3-1(1,8) | 1,8 | + | 4 c |
| 2010 | 1125 | Egg based cream (crème brûlée) | S. Infantis 14 | Pasteurized whole egg product | Spiking 3 days 4°C/ HT 56°C 16 min/2 days 4°C | >4,60 | 1-3-1-3-1(1,8) | 1,8 | + | 4 c |
| 2010 | 1126 | Croque Monsieur | S. London A00P085 | Nems | Spiking 3 days 4°C/ HT 56°C 16 min/2 days 4°C | >3,60 | 3-2-3-4-3(3,0) | 3,0 | + | 1 b |
| 2010 | 1127 | Quiche Lorraine | S. London A00P085 | Nems | Spiking 3 days 4°C/ HT 56°C 16 min/2 days 4°C | >3,60 | 3-2-3-4-3(3,0) | 3,0 | + | 1 b |

| Year of analysis | Sample N° | Product | Artificial contaminations (spiking protocol) | | | | | Global result | Category | Type |
|------------------|-----------|--|--|--------------------------------------|---|--------------------|---------------------------|---------------|----------|------|
| | | | Strain | Origin | Injury protocol | Injury measurement | Inoculation level/ sample | | | |
| 2010 | 1129 | Friand (pufpastry) | S. London A00P085 | Nems | Spiking 3 days 4°C/ HT 56°C 16 min/2 days 4°C | >3,60 | 3-2-3-4-3(3,0) | 3,0 | + | 1 b |
| 2010 | 1198 | Frozen minced vegetables | S. Virchow F276 | curry | Spiking 6 days -20°C | 0,56 | 13-9-12-22-10(9,2) | 9,2 | + | 5 c |
| 2010 | 1199 | Frozen Asian vegetables | S. Virchow F276 | curry | Spiking 6 days -20°C | 0,56 | 13-9-12-22-10(9,2) | 9,2 | + | 5 c |
| 2010 | 1200 | Frozen vegetables (ratatouille) | S. Virchow F276 | curry | Spiking 6 days -20°C | 0,56 | 13-9-12-22-10(9,2) | 9,2 | + | 5 c |
| 2010 | 1201 | Frozen mixed vegetables | S. Virchow F276 | curry | Spiking 6 days -20°C | 0,56 | 13-9-12-22-10(9,2) | 9,2 | + | 5 c |
| 2010 | 1203 | Sole filet | S. SaintPaul F31 | Pilchard | Spiking 6 days -20°C | 0,78 | 7-8-7-5-7(5,8) | 5,8 | + | 5 a |
| 2010 | 1204 | Frozen ready to eat food with fish and vegetables | S. SaintPaul F31 | Pilchard | Spiking 6 days -20°C | 0,78 | 7-8-7-5-7(5,8) | 5,8 | + | 1 b |
| 2010 | 1205 | Frozen Sole | S. SaintPaul F31 | Pilchard | Spiking 6 days -20°C | 0,78 | 7-8-7-5-7(5,8) | 5,8 | + | 5 a |
| 2010 | 1210 | Ice cream (mint-chocolate) | S. Montevideo 604 | Raw milk | Spiking 6 days -20°C | 0,66 | 4-4-2-3-3(3,2) | 3,2 | + | 3 c |
| 2010 | 1211 | Vanilla ice cream | S. Montevideo 604 | Raw milk | Spiking 6 days -20°C | 0,66 | 4-4-2-3-3(3,2) | 3,2 | + | 3 c |
| 2010 | 1212 | Coffee ice cream | S. Montevideo 604 | Raw milk | Spiking 6 days -20°C | 0,66 | 4-4-2-3-3(3,2) | 3,2 | + | 3 c |
| 2010 | 1213 | Cured duck filet | S. Anatum 7140 | Ready to eat meat (Bœuf Bourguignon) | Spiking 6 days -20°C | 0,48 | 5-4-6-4-6(5,0) | 5,0 | + | 1 c |
| 2010 | 1214 | Ground beef | S. Anatum 7140 | Ready to eat meat (Bœuf Bourguignon) | Spiking 6 days -20°C | 0,48 | 5-4-6-4-6(5,0) | 5,0 | + | 2 c |
| 2010 | 1215 | Frozen ground beef with onions | S. Anatum 7140 | Ready to eat meat (Bœuf Bourguignon) | Spiking 6 days -20°C | 0,48 | 5-4-6-4-6(5,0) | 5,0 | + | 2 c |
| 2010 | 1216 | Meat balls | S. Anatum 7140 | Ready to eat meat (Bœuf Bourguignon) | Spiking 6 days -20°C | 0,48 | 5-4-6-4-6(5,0) | 5,0 | + | 2 c |
| 2010 | 1217 | Dessert (Crème brûlée au caramel) | S. Montevideo 604 | Raw milk | Spiking 6 days -20°C | 0,66 | 4-4-2-3-3(3,2) | 3,2 | + | 4 c |
| 2010 | 1219 | Feedstuff (pellets for dog) | S. Derby 630 | Feedstuff | Spiking 6 days 4°C | >1,61 | 7-12-10-8-7(8,8) | 8,8 | + | 6 b |
| 2010 | 1221 | Feedstuff (poultry based pet food) | S. Derby 630 | Feedstuff | Spiking 6 days 4°C | >1,61 | 7-12-10-8-7(8,8) | 8,8 | + | 6 b |

| Year of analysis | Sample N° | Product | Artificial contaminations (spiking protocol) | | | | | Global result | Category | Type |
|------------------|-----------|--|--|--------------------------------------|-------------------------------------|--------------------|---------------------------|---------------|----------|------|
| | | | Strain | Origin | Injury protocol | Injury measurement | Inoculation level/ sample | | | |
| 2010 | 1223 | Feedstuff (rabbit-based pet food) | S. Derby 630 | Feedstuff | Spiking 6 days 4°C | >1,61 | 7-12-10-8-7(8,8) | 8,8 | + | 6 b |
| 2010 | 1225 | Feed stuff (beef-based pellets dogfood) | S. Derby 630 | Feedstuff | Spiking 6 days 4°C | >1,61 | 7-12-10-8-7(8,8) | 8,8 | + | 6 b |
| 2010 | 1227 | Sausages (Fricadelles) | S. Anatum 7140 | Ready to eat meat (Bœuf Bourguignon) | Spiking 6 days 4°C / HT 56°C 10 min | 0,79 | 2-4-7-3-2(3,6) | 3,6 | + | 2 b |
| 2010 | 1229 | Veal paupiette | S. Anatum 7140 | Ready to eat meat (Bœuf Bourguignon) | Spiking 6 days 4°C / HT 56°C 10 min | 0,79 | 2-4-7-3-2(3,6) | 3,6 | + | 2 c |
| 2010 | 1231 | Asian ready to eat meal (poultry) | S. Anatum 7140 | Ready to eat meat (Bœuf Bourguignon) | Spiking 6 days 4°C / HT 56°C 10 min | 0,79 | 2-4-7-3-2(3,6) | 3,6 | + | 1 b |
| 2010 | 1233 | Basquaise chicken preparation | S. Anatum 7140 | Ready to eat meat (Bœuf Bourguignon) | Spiking 6 days 4°C / HT 56°C 10 min | 0,79 | 2-4-7-3-2(3,6) | 3,6 | + | 1 b |
| 2010 | 1235 | Pastry with custard (gland) | S. Typhimurium 472 | Egg yolk | Spiking 6 days 4°C / HT 56°C 10 min | >0,65 | 6-8-4-7-4(5,8) | 5,8 | + | 4 c |
| 2010 | 1237 | Pastry with custard (éclair)) | S. Typhimurium 472 | Egg yolk | Spiking 6 days 4°C / HT 56°C 10 min | >0,65 | 6-8-4-7-4(5,8) | 5,8 | + | 4 c |
| 2010 | 1239 | Egg based cream (crème anglaise) | S. Typhimurium 472 | Egg yolk | Spiking 6 days 4°C / HT 56°C 10 min | >0,65 | 6-8-4-7-4(5,8) | 5,8 | + | 4 c |
| 2010 | 1402 | Whole egg powder | S. Enteritidis 10 | Egg white powder | Spiking HT 56°C 15 min/ 6 days 4°C | 1 | 3-6-3-3-6(4,2) | 4,2 | + | 4 a |
| 2010 | 1403 | White egg powder | S. Enteritidis 10 | Egg white powder | Spiking HT 56°C 15 min/ 6 days 4°C | 1 | 3-6-3-3-6(4,2) | 4,2 | + | 4 a |
| 2010 | 1404 | Whole egg powder | S. Enteritidis 10 | Egg white powder | Spiking HT 56°C 15 min/ 6 days 4°C | 1 | 3-6-3-3-6(4,2) | 4,2 | + | 4 a |
| 2010 | 1405 | White egg powder | S. Enteritidis 10 | Egg white powder | Spiking HT 56°C 15 min/ 6 days 4°C | 1 | 3-6-3-3-6(4,2) | 4,2 | + | 4 a |
| 2010 | 1406 | Frozen mixed spinach | S. Kedougou Ad929 | Bovine environment | Spiking 6 days -20°C | 0,72 | 6-4-11-9-12(8,4) | 8,4 | + | 5 c |
| 2010 | 1407 | Frozen spinach branches | S. Kedougou Ad929 | Bovine environment | Spiking 6 days -20°C | 0,72 | 6-4-11-9-12(8,4) | 8,4 | + | 5 c |
| 2010 | 1408 | Beans puree | S. Kedougou Ad929 | Bovine environment | Spiking 6 days -20°C | 0,72 | 6-4-11-9-12(8,4) | 8,4 | + | 1 b |

| Year of analysis | Sample N° | Product | Artificial contaminations (spiking protocol) | | | | | Global result | Category | Type |
|------------------|-----------|----------------------------------|--|---------------------|----------------------------------|--------------------|---------------------------|---------------|----------|------|
| | | | Strain | Origin | Injury protocol | Injury measurement | Inoculation level/ sample | | | |
| 2010 | 1409 | Carrots puree | S. Kedougou Ad929 | Bovine environment | Spiking 6 days -20°C | 0,72 | 6-4-11-9-12(8,4) | 8,4 | + | 1 b |
| 2010 | 1411 | Calmar salad | S.Derby Ad1093 | Fish filet | Spiking 6 days -20°C | 0,78 | 20-11-13-9-9(12,4) | 12,4 | + | 1 a |
| 2010 | 1412 | Little octopus salad | S.Derby Ad1093 | Fish filet | Spiking 6 days -20°C | 0,78 | 20-11-13-9-9(12,4) | 12,4 | + | 1 a |
| 2010 | 1414 | Ready to eat mixed vegetables | S. Kottbus 2 | Poultry environment | Spiking 6 days -20°C | >1,18 | 10-8-10-10-10(9,6) | 9,6 | - | 1 a |
| 2010 | 1416 | Cauliflower | S. Kottbus 2 | Poultry environment | Spiking 6 days -20°C | >1,18 | 10-8-10-10-10(9,6) | 9,6 | + | 5 c |
| 2010 | 1982 | Raw meat for pet | S. Livingstone F105 | Feed stuff | Spiking 34 days -20°C | 0,66 | 12-12-10-12-15(12,2) | 12,2 | + | 6 a |
| 2010 | 1983 | Balls for pet | S. Livingstone F105 | Feed stuff | Spiking 34 days -20°C | 0,66 | 12-12-10-12-15(12,2) | 12,2 | + | 6 b |
| 2010 | 1984 | Big sausage for dog | S. Livingstone F105 | Feed stuff | Spiking 34 days -20°C | 0,66 | 12-12-10-12-15(12,2) | 12,2 | + | 6 b |
| 2010 | 1985 | Raw milk | S. Dublin Ad531 | Raw milk cheese | Spiking 34 days 10% NaCl | 0,53 | 8-13-16-12-8(11,4) | 11,4 | + | 3 a |
| 2010 | 1986 | Raw milk cheese (Rocamadour) | S. Dublin Ad531 | Raw milk cheese | Spiking 34 days 10% NaCl | 0,53 | 8-13-16-12-8(11,4) | 11,4 | + | 3 b |
| 2010 | 1987 | Raw milk | S. Lagos 173 | Sausages | Spiking 34 days -20°C | 0,73 | 6-8-4-6-5(5,8) | 5,8 | + | 3 a |
| 2010 | 1988 | Raw milk cheese (Saint Nectaire) | S. Lagos 173 | Sausages | Spiking 34 days -20°C | 0,73 | 6-8-4-6-5(5,8) | 5,8 | + | 3 b |
| 2010 | 2158 | Liquid whole gg | S. Typhimurium 776 | Whole egg product | Spiking 6 days 4°C/29 days -20°C | 1,2 | 2-3-1-2-1(1,8) | 1,8 | + | 4 b |
| 2010 | 2159 | Liquid whole egg | S. Typhimurium 776 | Whole egg product | Spiking 6 days 4°C/29 days -20°C | 1,2 | 2-3-1-2-1(1,8) | 1,8 | + | 4 b |
| 2010 | 2251 | Cooked chicken meat pieces | S. Virchow 647 | Poultry meat | Spiking 35 days-20°C | 1,11 | 6-1-6-7-4(4,8) | 4,8 | + | 1 b |
| 2010 | 2253 | White chicken with herbs | S. Virchow 647 | Poultry meat | Spiking 35 days-20°C | 1,11 | 6-1-6-7-4(4,8) | 4,8 | + | 1 b |
| 2010 | 2254 | Mayonnaise | S. Typhimurium 776 | Whole egg product | Spiking 35 days-pH4- 4°C | 0,46 | 22-19-21-23-22(21,4) | 21,4 | + | 4 b |
| 2010 | 2256 | Dressing (Hollandaise) | S. Typhimurium 776 | Whole egg product | Spiking 35 days-pH4- 4°C | 0,46 | 22-19-21-23-22(21,4) | 21,4 | + | 4 c |
| 2010 | 2259 | Raw milk cheese (Salers) | S. Dublin Ad531 | Raw milk cheese | Spiking 35 days-10%Nacl 4°C | 0,73 | 18-20-15-8-16(18,0) | 18,0 | + | 3 b |

| Year of analysis | Sample N° | Product | Artificial contaminations (spiking protocol) | | | | | Global result | Category | Type |
|------------------|-----------|-----------------------------|--|----------------------|-------------------------|--------------------|---------------------------|---------------|----------|------|
| | | | Strain | Origin | Injury protocol | Injury measurement | Inoculation level/ sample | | | |
| 2010 | 2376 | Tiramisu | S. Montevideo Ad912 | Raw milk | Spiking HT 56°C 15 min | 1,07 | 2-3-3-1-1(2,0) | 2,0 | + | 3 c |
| 2010 | 2377 | Chantilly | S. Montevideo Ad912 | Raw milk | Spiking HT 56°C 15 min | 1,07 | 2-3-3-1-1(2,0) | 2,0 | + | 3 c |
| 2010 | 2378 | Milk rice | S. Montevideo 510 | Raw milk | Spiking HT 56°C 15 min | 2,76 | 1-1-0-0-3(1,0) | 1,0 | + | 3 c |
| 2010 | 2379 | Cheese (Brie) | S. Montevideo 510 | Raw milk | Spiking HT 56°C 15 min | 2,76 | 1-1-0-0-3(1,0) | 1,0 | + | 3 b |
| 2010 | 2382 | Ice cream (Pistachio) | S. Infantis 401B | Raw milk | Spiking HT 56°C 15 min | 1,98 | 0-0-3-5-4(2,4) | 2,4 | + | 3 c |
| 2010 | 2393 | Egg powder | S. Typhimurium 13 | Egg product | Spiking HT 56°C 15 min | 2,48 | 1-2-3-0-3(1,8) | 1,8 | + | 4 a |
| 2010 | 2394 | Egg powder | S. Typhimurium 13 | Egg product | Spiking HT 56°C 15 min | 2,48 | 1-2-3-0-3(1,8) | 1,8 | + | 4 a |
| 2010 | 2395 | Egg powder | S. Enteritidis 465 | Egg product | Spiking HT 56°C 15 min | 1,61 | 6-12-7-6-4(7,0) | 7,0 | + | 4 a |
| 2010 | 2396 | Egg powder | S. Enteritidis 465 | Egg product | Spiking HT 56°C 15 min | 1,61 | 6-12-7-6-4(7,0) | 7,0 | + | 4 a |
| 2010 | 2404 | Cooked vegetables | S. Typhimurium Ad1249 | Environmental sample | Spiking HT 56°C 15 min | 1,31 | 1-0-1-0-4(1,2) | 1,2 | + | 1 b |
| 2010 | 2405 | Vegetable terrine | S. Typhimurium Ad1249 | Environmental sample | Spiking HT 56°C 15 min | 1,31 | 1-0-1-0-4(1,2) | 1,2 | + | 1 a |
| 2010 | 2408 | Granules for pigs | S. Infantis 288 | Raw pork meat | Spiking HT 56°C 15 min | 2,31 | 1-0-1-4-1(1,4) | 1,4 | + | 6 c |
| 2010 | 2410 | Raw bovine meat for animals | S. Dublin Ad529 | Beef meat | Spiking HT 56°C 15 min | 1,57 | 1-5-1-2-2(2,2) | 2,2 | + | 6 a |
| 2010 | 2411 | Raw meat for animals 1 | S. Infantis 288 | Raw pork meat | Spiking HT 56°C 15 min | 2,31 | 1-0-1-4-1(1,4) | 1,4 | + | 6 a |
| 2010 | 2412 | Raw meat for animals 2 | S. Dublin Ad529 | Beef meat | Spiking HT 56°C 15 min | 1,57 | 1-5-1-2-2(2,2) | 2,2 | + | 6 a |
| 2010 | 2413 | Raw meat for animals 3 | S. Infantis 288 | Raw pork meat | Spiking HT 56°C 15 min | 2,31 | 1-0-1-4-1(1,4) | 1,4 | + | 6 a |
| 2010 | 2414 | Sausage for dog | S. Dublin Ad529 | Beef meat | Spiking HT 56°C 15 min | 1,57 | 1-5-1-2-2(2,2) | 2,2 | + | 6 a |
| 2010 | 2549 | Raw milk | S. Infantis 401B | Raw milk | Spiking 10% NaCl-3 days | 0,35 | 6-10-10-5-13(8,8) | 8,8 | + | 3 a |
| 2010 | 2550 | Raw milk | S. Montevideo 510 | Raw milk | Spiking pH4-3days | 1,02 | 0-6-2-2-2(2,4) | 2,4 | + | 3 a |
| 2010 | 2551 | Raw milk | S. Infantis 401B | Raw milk | Spiking 10% NaCl-3 days | 0,35 | 6-10-10-5-13(8,8) | 8,8 | + | 3 a |

| Year of analysis | Sample N° | Product | Artificial contaminations (spiking protocol) | | | | | Global result | Category | Type |
|------------------|-----------|---|--|----------------------|-------------------------|--------------------|---------------------------|---------------|----------|------|
| | | | Strain | Origin | Injury protocol | Injury measurement | Inoculation level/ sample | | | |
| 2010 | 2552 | Raw milk cheese (Tomme des Avis) | S. Infantis 401B | Raw milk | Spiking 10% NaCl-3 days | 0,35 | 6-10-10-5-13(8,8) | 8,8 | + | 3 b |
| 2010 | 2553 | Raw milk cheese (Morbier) | S. Infantis 401B | Raw milk | Spiking 10% NaCl-3 days | 0,35 | 6-10-10-5-13(8,8) | 8,8 | + | 3 b |
| 2010 | 2554 | Raw milk cheese (Saint Nectaire) | S. Infantis 401B | Raw milk | Spiking 10% NaCl-3 days | 0,35 | 6-10-10-5-13(8,8) | 8,8 | + | 3 b |
| 2010 | 2555 | Raw milk cheese (Comté) | S. Montevideo 510 | Raw milk | Spiking pH4-3 days | 1,02 | 0-6-2-2-2(2,4) | 2,4 | - | 3 a |
| 2010 | 2556 | Raw milk cheese (Bethmale) | S. Montevideo 510 | Raw milk | Spiking pH4-3 days | 1,02 | 0-6-2-2-2(2,4) | 2,4 | + | 3 b |
| 2010 | 2558 | Grated carrots | S. Blockley Ad923 | Environmental sample | Spiking -20°C-3 days | 0,77 | 18-16-12-9-16(14,2) | 14,2 | + | 5 c |
| 2010 | 2568 | Raw milk | S. Montevideo 510 | Raw milk | Spiking pH4-3 days | 1,02 | 0-6-2-2-2(2,4) | 2,4 | + | 3 a |
| 2010 | 2569 | Raw milk | S. Montevideo 510 | Raw milk | Spiking pH4-3 days | 1,02 | 0-6-2-2-2(2,4) | 2,4 | + | 3 a |
| 2018 | 6197 | RTE (Sandwich ham, butter) | S. Enteritidis 2532 | Cooked ham | Seeding 48 h 3 ± 2°C | / | 1-1-3-1-2 | 1,6 | + | 1 a |
| 2018 | 6198 | RTE (Sandwich ham, cheese) | S. Agona Ad2281 | Cooked ham | Seeding 48 h 3 ± 2°C | / | 4-2-0-2-1 | 1,8 | + | 1 a |
| 2018 | 6199 | RTE (Salad ham, cheese) | S. Enteritidis 2532 | Cooked ham | Seeding 48 h 3 ± 2°C | / | 1-1-3-1-2 | 1,6 | + | 1 a |
| 2018 | 6200 | RTE (Salad ham, pasta) | S. Agona Ad2281 | Cooked ham | Seeding 48 h 3 ± 2°C | / | 4-2-0-2-1 | 1,8 | + | 1 a |
| 2018 | 6201 | Marinated fish | S. Wandsworth Ad2335 | Fish fillet | Seeding 48 h 3 ± 2°C | / | 2-0-0-1-0 | 0,6 | + | 1 c |
| 2018 | 6202 | Grated salmon | S. Anatum Ad1451 | Fish fillet | Seeding 48 h 3 ± 2°C | / | 0-1-2-2-0 | 1,0 | + | 1 c |
| 2018 | 6203 | Marinated fish | S. Derby Ad1093 | Frozen fish fillet | Seeding 48 h 3 ± 2°C | / | 2-1-3-2-2 | 2,0 | + | 1 c |
| 2018 | 6204 | Smoked salmon | S. Derby Ad1093 | Frozen fish fillet | Seeding 48 h 3 ± 2°C | / | 2-1-3-2-2 | 2,0 | + | 1 c |
| 2018 | 6205 | Marinated duck | S. SaintPaul AOOC001 | Poultry | Seeding 48 h 3 ± 2°C | / | 2-1-6-5-3 | 3,4 | + | 1 c |
| 2018 | 6207 | Marinated pork meat | S. Brandenburg Ad2420 | Sausages | Seeding 48 h 3 ± 2°C | / | 3-1-1-2-7 | 2,8 | + | 1 c |
| 2018 | 6208 | Dairy dessert | S. Anatum Ad2718 | Dairy product | Seeding 48 h 3 ± 2°C | / | 5-5-4-1-4 | 3,8 | + | 3 c |

| Year of analysis | Sample N° | Product | Artificial contaminations (spiking protocol) | | | | | Global result | Category | Type |
|------------------|-----------|-----------------------|--|-----------------------|----------------------|--------------------|---------------------------|---------------|----------|------|
| | | | Strain | Origin | Injury protocol | Injury measurement | Inoculation level/ sample | | | |
| 2018 | 6339 | Raw veal meat | S. Enteritidis Ad926 | Seasoned veal meat | Seeding 48 h 3 ± 2°C | / | 0-0-1-1-4 | 1,2 | + | 2 c |
| 2018 | 6340 | Raw veal meat | S. Enteritidis Ad926 | Seasoned veal meat | Seeding 48 h 3 ± 2°C | / | 0-0-1-1-4 | 1,2 | + | 2 c |
| 2018 | 6341 | Raw veal meat | S. Dublin Ad530 | Ground beef | Seeding 48 h 3 ± 2°C | / | 0-1-1-0-3 | 1,0 | + | 2 c |
| 2018 | 6342 | Raw beef meat | S. Dublin Ad530 | Ground beef | Seeding 48 h 3 ± 2°C | / | 0-1-1-0-3 | 1,0 | + | 2 c |
| 2018 | 6343 | Raw beef meat | S.Typhimurium AOOC060 | Ground beef | Seeding 48 h 3 ± 2°C | / | 4-1-2-4-2 | 2,6 | + | 2 c |
| 2018 | 6344 | Raw beef meat | S. Panama 4255 | Ground beef | Seeding 48 h 3 ± 2°C | / | 2-5-3-1-3 | 2,8 | + | 2 c |
| 2018 | 6506 | Fish | S. SaintPaul F31 | Fish fillet | Seeding 48 h 3 ± 2°C | / | 1-1-1-1-1 | 1,0 | - | 5 a |
| 2018 | 6507 | Fish fillet | S. Indiana Ad1409 | Marinated fish fillet | Seeding 48 h 3 ± 2°C | / | 0-0-0-1-0 | 0,2 | + | 5 a |
| 2018 | 6508 | Fish fillet | S. Senftenberg Ad355 | Shellfish | Seeding 48 h 3 ± 2°C | / | 1-0-2-1-1 | 1,0 | + | 5 a |
| 2018 | 6509 | Shellfish | S. SaintPaul F31 | Fish fillet | Seeding 48 h 3 ± 2°C | / | 1-1-1-1-1 | 1,0 | + | 5 a |
| 2018 | 6510 | Shellfish | S. Indiana Ad1409 | Marinated fish fillet | Seeding 48 h 3 ± 2°C | / | 0-0-0-1-0 | 0,2 | + | 5 a |
| 2018 | 6511 | Tomato | S. Kasenyi Ad2921 | Vegetables | Seeding 48 h 3 ± 2°C | / | 2-1-0-1-0 | 0,8 | + | 5 c |
| 2018 | 6514 | Sausage for dogs | S. Menston Ad2725 | Pet food | Seeding 48 h 3 ± 2°C | / | 1-0-1-1-1 | 0,8 | + | 6 b |
| 2018 | 6591 | Baby leaves (spinach) | S. Caracas Ad2322 | Spices | Seeding 48 h 3 ± 2°C | / | 4-1-3-1-3 | 2,4 | + | 5 b |
| 2018 | 6592 | Baby leaves (salad) | S. Virchow F276 | Curry | Seeding 48 h 3 ± 2°C | / | 2-1-2-4-2 | 2,2 | + | 5 b |
| 2018 | 6593 | Baby leaves (salad) | S. Kasenyi Ad2921 | Sprouts (leeks) | Seeding 48 h 3 ± 2°C | / | 2-1-3-1-1 | 1,6 | + | 5 b |
| 2018 | 6594 | Baby leaves (salad) | S. Livingstone Ad2566 | Potatoes | Seeding 48 h 3 ± 2°C | / | 3-4-0-1-1 | 1,8 | + | 5 b |
| 2018 | 6595 | Baby leaves (mix) | S. Livingstone Ad2566 | Potatoes | Seeding 48 h 3 ± 2°C | / | 3-4-0-1-1 | 1,8 | - | 5 b |
| 2018 | 6596 | Baby leaves (salad) | S. Livingstone Ad2566 | Potatoes | Seeding 48 h 3 ± 2°C | / | 3-4-0-1-1 | 1,8 | + | 5 b |
| 2018 | 6962 | Raw salmon | S. Wandsworth Ad2335 | Fish fillet | Seeding 48 h 3 ± 2°C | / | 2-3-2-2-3 | 2,4 | + | 5 a |
| 2018 | 6963 | Raw squid | S. Wandsworth Ad2335 | Fish fillet | Seeding 48 h 3 ± 2°C | / | 2-3-2-2-3 | 2,4 | + | 5 a |
| 2018 | 6964 | Mackerel | S. Urbana Ad2334 | Frozen shrimp | Seeding 48 h 3 ± 2°C | / | 4-2-3-2-2 | 2,6 | + | 5 a |

| Year of analysis | Sample N° | Product | Artificial contaminations (spiking protocol) | | | | | Global result | Category | Type |
|------------------|-----------|-------------------------------|--|------------------------------|-----------------------|--------------------|---------------------------|---------------|----------|------|
| | | | Strain | Origin | Injury protocol | Injury measurement | Inoculation level/ sample | | | |
| 2018 | 6965 | Red bell pepper | S. Virchow Ad2569 | Zucchini | Seeding 48 h 3 ± 2°C | / | 4-5-3-3-5 | 4,0 | + | 5 c |
| 2018 | 6966 | Zucchini | S. Virchow Ad2569 | Zucchini | Seeding 48 h 3 ± 2°C | / | 4-5-3-3-5 | 4,0 | + | 5 c |
| 2018 | 6967 | Broccoli | S. Caracas Ad2322 | Spices | Seeding 48 h 3 ± 2°C | / | 4-4-2-3-4 | 3,4 | + | 5 c |
| 2018 | 6968 | Produces mesclun | S. Havana Ad2728 | Sunflower | Seeding 48 h 3 ± 2°C | / | 1-0-3-3-1 | 1,6 | + | 5 b |
| 2018 | 6969 | Baby leaves | S. Havana Ad2728 | Sunflower | Seeding 48 h 3 ± 2°C | / | 1-0-3-3-1 | 1,6 | + | 5 b |
| 2018 | 6970 | Iceberg salad | S. Kentucky Ad1755 | River water | Seeding 48 h 3 ± 2°C | / | 1-0-0-1-2 | 0,8 | + | 5 b |
| 2018 | 7227 | Turkey meat | S. Enteritidis Ad2721 | Frozen poultry meat | Seeding 48 h 3 ± 2°C | / | 0-0-2-1-3 | 1,4 | - | 2 a |
| 2018 | 7228 | Turkey meat | S. Bredeney Ad2042 | Turkey meat | Seeding 48 h 3 ± 2°C | / | 1-5-3-2-1 | 2,4 | + | 2 a |
| 2018 | 7229 | Chicken meat | S. Bredeney Ad2042 | Turkey meat | Seeding 48 h 3 ± 2°C | / | 1-5-3-2-1 | 2,4 | + | 2 a |
| 2018 | 7230 | Chicken meat | S.Derby Ad1339 | Chicken meat | Seeding 48 h 3 ± 2°C | / | 2-2-4-3-1 | 2,4 | + | 2 a |
| 2018 | 7231 | Duck meat | S. Derby Ad1339 | Chicken meat | Seeding 48 h 3 ± 2°C | / | 2-2-4-3-1 | 2,4 | + | 2 a |
| 2018 | 7232 | Mixed baby-leaves | S. Kentucky Ad1755 | River water | Seeding 48 h 3 ± 2°C | / | 2-4-2-3-5 | 3,2 | + | 5 b |
| 2018 | 7233 | Salad (Mâche) | S. Weltevreden Ad2336 | Water | Seeding 48 h 3 ± 2°C | / | 1-0-6-3-4 | 2,8 | + | 5 b |
| 2012 | 6539 | Drinking water(pigs) | S. Derby Ad1452 | Pigs faeces | 24 H room temperature | / | 6-4-4-5-5(4,8) | 4,8 | - | 8 b |
| 2012 | 6541 | Pigs litter | S. Derby Ad1452 | Pigs faeces | 24 H room temperature | / | 6-4-4-5-5(4,8) | 4,8 | + | 8 b |
| 2012 | 6543 | Boot socks(piggery) | S. Derby Ad1452 | Pigs faeces | 24 H room temperature | / | 6-4-4-5-5(4,8) | 4,8 | + | 8 a |
| 2012 | 6544 | Boot socks(piggery) | S. Derby Ad1452 | Pigs faeces | 24 H room temperature | / | 6-4-4-5-5(4,8) | 4,8 | + | 8 a |
| 2012 | 243 | Slaughterhouse poultry faeces | S. Hadar 35 | Poultry | 24 H room temperature | / | 9-15-17-10(12,0) | 12 | + | 8 a |
| 2012 | 248 | Poultry drinker sponge | S. Hvana Ad930 | Poultry environmental sample | 24 H room temperature | / | 13-7-4-4-5(6,6) | 6,6 | + | 8 b |
| 2012 | 250 | Poultry litter | S. Blockley Ad923 | Poultry environmental sample | 24 H room temperature | / | 9-9-5-8-8(7,8) | 7,8 | - | 8 b |
| 2012 | 252 | Hen water | S. Typhimurium Ad1335 | Hens breeding | 24 H room temperature | / | 7-10-18-6-10(8,4) | 8,4 | + | 8 b |
| 2012 | 253 | Tureen pig water | S. Derby Ad1500 | Pork drinker | 24 H room temperature | / | 2-3-3-5-6(3,8) | 3,8 | - | 8 b |

| Year of analysis | Sample N° | Product | Artificial contaminations (spiking protocol) | | | | | Global result | Category | Type |
|------------------|-----------|-------------------------|--|------------------------------|-----------------------|--------------------|---------------------------|---------------|----------|------|
| | | | Strain | Origin | Injury protocol | Injury measurement | Inoculation level/ sample | | | |
| 2012 | 254 | Pork faeces | S. Derby Ad1500 | Pork drinker | 24 H room temperature | / | 2-3-3-5-6(3,8) | 3,8 | + | 8 a |
| 2012 | 257 | Sponge(pork) | S. Typhimurium Ad1249 | Pigs environmental sample | 24 H room temperature | / | 6-8-8-5-6(6,6) | 6,6 | - | 8 b |
| 2012 | 258 | Sponge (pork wall) | S. Typhimurium ST 394 | Pig Slaughterhouse | 24 H room temperature | / | 8-3-5-4-4(6,2) | 6,2 | + | 8 b |
| 2012 | 1020 | Pork faeces | S. Montevideo Ad1109 | Pork faeces | 24 H room temperature | / | 4-4-4-7-4(4,6) | 4,6 | - | 8 a |
| 2012 | 1021 | Pork faeces | S. Montevideo Ad1109 | Pork faeces | 24 H room temperature | / | 4-4-4-7-4(4,6) | 4,6 | + | 8 a |
| 2012 | 1022 | Hen drinker water | S. Derby Ad 1500 | Pork drinker | 24 H room temperature | / | 4-8-8-5-7(6,4) | 6,4 | + | 8 b |
| 2012 | 1023 | Sponge (Hen-house door) | S. Havana Ad930 | Poultry environmental sample | 24 H room temperature | / | 11-12-10-8-10(10,2) | 10,2 | + | 8 b |
| 2012 | 1025 | Sponge (Door-pork) | S. Typhimurium Ad1249 | Pork environmental sample | 24 H room temperature | / | 4-6-9-7-9(7,0) | 7 | + | 8 b |
| 2012 | 1050 | Pork faeces | S. Typhimurium ST 394 | Pig Slaughterhouse | 24 H room temperature | / | 7-6-6-4-5(5,6) | 5,6 | + | 8 a |
| 2012 | 1053 | Pork faeces | S. Typhimurium ST 394 | Pig Slaughterhouse | 24 H room temperature | / | 7-6-6-4-5(5,6) | 5,6 | + | 8 a |
| 2013 | 2111 | Raw lamb meat | S. Derby 17 | Merguez | 4°C 12 days | 0,35 | 5-8-7-5-10 (7,0) | 7 | + | 7 a |
| 2013 | 2115 | Raw beef meat | S. Newport 586 | Beef meat | 4°C 12 days | 0,37 | 2-0-2-5-3 (2,4) | 2,4 | + | 7 a |
| 2013 | 2116 | Raw beef meat | S. Newport 586 | Beef meat | 4°C 12 days | 0,37 | 2-0-2-5-3 (2,4) | 2,4 | + | 7 a |
| 2013 | 2117 | Raw beef meat | S. Newport 586 | Beef meat | 4°C 12 days | 0,37 | 2-0-2-5-3 (2,4) | 2,4 | + | 7 a |
| 2013 | 2386b | Dehydrated sausage | S. Bredeney 464 | Delicatessen | TS pH4 4days | 0,43 | 3-1-2-1-4 (2,2) | 2,2 | + | 7 b |
| 2013 | 2387 | Dehydrated sausage | S. Bredeney 464 | Delicatessen | TS pH4 4 days | 0,43 | 3-1-2-1-4 (2,2) | 2,2 | + | 7 b |
| 2013 | 2388 | Dehydrated sausage | S. Typhimurium 702 | Delicatessen | TS pH4 4 days | 0,43 | 4-5-3-4-6 (4,4) | 4,4 | + | 7 b |
| 2013 | 2389 | Dehydrated sausage | S. Typhimurium 702 | Delicatessen | TS pH4 4 days | 0,43 | 4-5-3-4-6 (4,4) | 4,4 | + | 7 b |
| 2013 | 2390 | Dehydrated sausage | S. Typhimurium 702 | Delicatessen | TS pH4 4 days | 0,43 | 4-5-3-4-6 (4,4) | 4,4 | + | 7 b |
| 2013 | 2392 | Roasted breast | S. London 326 | Ham | 56°C 8 min | 1,12 | 1-2-3-2-0 (1,6) | 1,6 | + | 7 b |
| 2013 | 2393 | Ham | S. London 326 | Ham | 56°C 8 min | 1,12 | 1-2-3-2-0 (1,6) | 1,6 | + | 7 b |
| 2013 | 2397 | Deli salad | S. Newport Ad1761 | Delicatessen | 56°C 8 min | 0,53 | 3-3-3-5-5 (3,8) | 3,8 | - | 7 c |
| 2013 | 2398 | Ready to reheat (meat) | S. London 326 | Ham | 56°C 8 min | 1,12 | 1-2-3-2-0 (1,6) | 1,6 | + | 7 c |
| 2013 | 2399 | Ready to reheat (meat) | S. London 326 | Ham | 56°C 8 min | 1,12 | 1-2-3-2-0 (1,6) | 1,6 | + | 7 c |

| Year of analysis | Sample N° | Product | Artificial contaminations (spiking protocol) | | | | | Global result | Category | Type |
|------------------|-----------|------------------------|--|--------|-----------------|--------------------|---------------------------|---------------|----------|------|
| | | | Strain | Origin | Injury protocol | Injury measurement | Inoculation level/ sample | | | |
| 2013 | 2400 | Ready to reheat (meat) | S. London 326 | Ham | 56°C 8 min | 1,12 | 1-2-3-2-0 (1,6) | 1,6 | + | 7 c |
| 2013 | 2401 | Ready to reheat (meat) | S. Enteritidis 2532 | Ham | 56°C 8 min | 0,74 | 6-7-5-7-9 (6,8) | 6,8 | + | 7 c |
| 2013 | 2402 | Ready to reheat (meat) | S. Enteritidis 2532 | Ham | 56°C 8 min | 0,74 | 6-7-5-7-9 (6,8) | 6,8 | + | 7 c |
| 2013 | 2403 | Ready to reheat (meat) | S. Enteritidis 2532 | Ham | 56°C 8 min | 0,74 | 6-7-5-7-9 (6,8) | 6,8 | + | 7 c |
| 2013 | 2404 | Ready to reheat (meat) | S. Enteritidis 2532 | Ham | 56°C 8 min | 0,74 | 6-7-5-7-9 (6,8) | 6,8 | + | 7 c |
| 2013 | 2405 | Ready to reheat (meat) | S. Enteritidis 2532 | Ham | 56°C 8 min | 0,74 | 6-7-5-7-9 (6,8) | 6,8 | + | 7 c |

Appendix 6 – Sensitivity study: raw data

Bold typing: artificially inoculated samples

Salmonella detection results:

- m: minority level of target analyte
- M : majority level of target analyte
- P: pure culture level of target analyte
- 1/2 : 50% level of target analyte
- (x): number of colonies in the plate
- : no typical colonies but presence of background microflora
- st: plate without any colony
- d: doubtful result
- NC: non-characteristic colonies
- PA: positive agreement
- NA: negative agreement
- ND: negative deviation
- PD: positive deviation
- PPNA: positive presumptive negative agreement
- PPND: positive presumptive negative deviation
- w: weak reaction
- ni: non-isolated colonies
- i: inhibition
- ox: oxidase test
- *: Lysate dilution 1/5

| READY TO EAT, READY TO REHEAT | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|-----------|---|-----------------------------------|--------------------------------------|-----------------------------------|----------------------|--------|---------------------------------|---|------------------------------|-------------------------|---------------------|----------------------|-------------------|-----------------------------------|----------------------|--------------|----------|------|--|--|
| Date | Sample N° | Product | Reference method : ISO 6579* | | | | | | Alternative method : MicroSEQ Salmonella spp (PrepSEQ™ Rapid Spin protocol) | | | | | | | | | Category | Type | | |
| | | | RVS broth | | MKTn broth | | Result | PCR result (Cq) | Confirmation (Reference method) | Confirmation (RVS/XLD/Latex) | Final result Ref. conf. | Agreement Ref.conf. | Final result RVS/XLD | Agreement RVS/XLD | Storage BPW for 72 h at 5°C ± 3°C | | | | | | |
| | | | XLD | CHROMagar Salmonella | XLD | CHROMagar Salmonella | | | | | | | | | PCR result (Cq) | Confirmation | Final result | | | | |
| 2010 | 955 | Spring rolls | +ni/- | - | +/- | +ni/- | - | - | - | - | - | NA | - | NA | | | | | 1 a | | |
| 2010 | 956 | Chinese salad(vegetables) | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 1 a | | |
| 2010 | 1121 | Salmon terrine | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + + | + + | PA | 1 a | | |
| 2010 | 1391 | Salmon terrine | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 1 a | | |
| 2010 | 1392 | Scallops terrine | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 1 a | | |
| 2010 | 1393 | Calmar salad | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 1 a | | |
| 2010 | 1394 | Little octopus-based salad | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 1 a | | |
| 2010 | 1395 | Anchovy fillet with garlic | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 1 a | | |
| 2010 | 1410 | Anchovy fillet with garlic | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 1 a | | |
| 2010 | 1411 | Calmar salad | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + + | + + | PA | 1 a | | |
| 2010 | 1412 | Little octopus salad | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + + | + + | PA | 1 a | | |
| 2010 | 1414 | Ready to eat mixed vegetables | - | - | - | - | - | - | +35,0)/ +(35,6)/ +(35,6) | - | - | PPNA | - | NA | +34,0)/ +(34,4) /+(34,4) | - | - | PPNA | 1 a | | |
| 2010 | 2397 | Sandwich | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 1 a | | |
| 2010 | 2398 | Deli salad | - | +/-(<i>Enterobacter sakazakii</i>) | - | - | - | - | - | - | - | NA | - | NA | | | | | 1 a | | |
| 2010 | 2399 | Vegetables terrine | - | - | +/-(<i>Citrobacter braakii</i>) | - | - | - | - | - | - | NA | - | NA | | | | | 1 a | | |
| 2010 | 2400 | Vegetables terrine | +/-(<i>Citrobacter braakii</i>) | - | +/-(<i>Citrobacter braakii</i>) | - | - | - | - | - | - | NA | - | NA | | | | | 1 a | | |
| 2010 | 2405 | Vegetables terrine | + | + | - | - | + | -37,0) / +(35,6)/ +(35,1) | + | + | - | ND | - | ND | + | +(5RVS) | + | PA | 1 a | | |
| 2010 | 2406 | Carrots salad | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 1 a | | |
| 2018 | 6197 | RTE (Sandwich ham, butter) | +m | +m | +m | +m | + | +(26,98) | + | + | + | PA | + | PA | +(27,91) | 5x(RVS/MKTTN/MSRV):- | - | PPND | 1 a | | |
| 2018 | 6198 | RTE (Sandwich ham, cheese) | +p | +p | +M | +M | + | +(20,46) | + | + | + | PA | + | PA | +(20,02) | + | + | PA | 1 a | | |
| 2018 | 6199 | RTE (Salad ham, cheese) | +M | +M | +m | +m | + | +(25,22) | + | + | + | PA | + | PA | +(25,87) | + | + | PA | 1 a | | |
| 2018 | 6200 | RTE (Salad ham, pasta) | +M | +M | +M | +M | + | +(22,10) | + | + | + | PA | + | PA | +(23,02) | + | + | PA | 1 a | | |
| 2010 | 949 | Ready to reheat fish | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 1 b | | |
| 2010 | 989 | Ready to reheat fish | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 1 b | | |
| 2010 | 1077 | Cooked sausage | +/-(<i>NC</i>) | - | +/-(<i>NC</i>) | - | - | - | - | - | - | NA | - | NA | | | | | 1 b | | |
| 2010 | 1114 | Basquaise chicken preparation | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 1 b | | |
| 2010 | 1115 | Ready to eat food with lamb (Navarin) | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 1 b | | |
| 2010 | 1116 | Couscous | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 1 b | | |
| 2010 | 1117 | Ready to eat food with veal (Italian dressing) | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 1 b | | |
| 2010 | 1120 | Mussels (marinière) | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 1 b | | |
| 2010 | 1126 | Croque Monsieur | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 1 b | | |
| 2010 | 1127 | Quiche Lorraine | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 1 b | | |
| 2010 | 1128 | Chicken nem | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 1 b | | |
| 2010 | 1129 | Friand (pufpastry) | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 1 b | | |
| 2010 | 1202 | Cooked tuna with vegetables | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 1 b | | |

* Analyses performed according to the COFRAC accreditation

| READY TO EAT, READY TO REHEAT | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|-----------|---|------------------------------|----------------------|------------|----------------------|--------|-----------------|---|------------------------------|-------------------------|---------------------|----------------------|-------------------|-----------------------------------|--------------|----------|------|-----|--|--|
| Date | Sample N° | Product | Reference method : ISO 6579♦ | | | | | | Alternative method : MicroSEQ Salmonella spp (PrepSEQ™ Rapid Spin protocol) | | | | | | | | Category | Type | | | |
| | | | RVS broth | | MKTn broth | | Result | PCR result (Cq) | Confirmation (Reference method) | Confirmation (RVS/XLD/Latex) | Final result Ref. conf. | Agreement Ref.conf. | Final result RVS/XLD | Agreement RVS/XLD | Storage BPW for 72 h at 5°C ± 3°C | | | | | | |
| | | | XLD | CHROMagar Salmonella | XLD | CHROMagar Salmonella | | | | | | | | | PCR result (Cq) | Confirmation | | | | | |
| 2010 | 1204 | Frozen ready to eat food with fish and vegetables | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 1 b | | |
| 2010 | 1230 | Asian ready to eat food with poultry | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 1 b | | |
| 2010 | 1231 | Asian ready to eat meal (poultry) | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 1 b | | |
| 2010 | 1232 | Basquaise chicken preparation | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 1 b | | |
| 2010 | 1233 | Basquaise chicken preparation | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 1 b | | |
| 2010 | 1380 | Frozen spinach with cream | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 1 b | | |
| 2010 | 1408 | Beans puree | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 1 b | | |
| 2010 | 1409 | Carrots puree | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 1 b | | |
| 2010 | 2251 | Cooked chicken meat pieces | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 1 b | | |
| 2010 | 2253 | White chicken with herbs | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 1 b | | |
| 2010 | 2402 | Cooked vegetables | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 1 b | | |
| 2010 | 2403 | Ready to eat meal | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 1 b | | |
| 2010 | 2404 | Cooked vegetables | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 1 b | | |
| 2010 | 1033 | Smoked raw sausage | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 1 c | | |
| 2010 | 1070 | Marinated beef (faux filet) | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 1 c | | |
| 2010 | 1213 | Cured duck filet | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 1 c | | |
| 2010 | 1385 | Haddock filet | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 1 c | | |
| 2018 | 6201 | Marinated fish | +M | +M | +p | +p | + | +(14,47) | + | + | + | PA | + | PA | +(14,23) | + | + | PA | 1 c | | |
| 2018 | 6202 | Grated salmon | +p | +p | +M | +M | + | +(22,26) | + | + | + | PA | + | PA | +(14,04) | + | + | PA | 1 c | | |
| 2018 | 6203 | Marinated fish | +M | +M | +M | +p | + | +(14,22) | + | + | + | PA | + | PA | +(13,24) | + | + | PA | 1 c | | |
| 2018 | 6204 | Smoked salmon | +M | +M | +M | +p | + | +(15,05) | + | + | + | PA | + | PA | +(14,30) | + | + | PA | 1 c | | |
| 2018 | 6205 | Marinated duck | +M | +p | +M | +p | + | +(15,18) | + | + | + | PA | + | PA | +(14,39) | + | + | PA | 1 c | | |
| 2018 | 6206 | Marinated beef trim | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 1 c | | |
| 2018 | 6207 | Marinated pork meat | +M | +M | +M | +M | + | +(23,51) | + | + | + | PA | + | PA | +(24,44) | + | + | PA | 1 c | | |
| 2018 | 6209 | Marinated fish | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 1 c | | |
| 2018 | 6210 | Marinated fish | st | st | st | st | - | - | - | - | - | NA | - | NA | | | | | 1 c | | |
| 2018 | 6211 | Marinated fish | st | st | st | st | - | - | - | - | - | NA | - | NA | | | | | 1 c | | |
| 2018 | 6212 | Smocked fish | st | st | st | st | - | - | - | - | - | NA | - | NA | | | | | 1 c | | |
| 2018 | 6213 | Grated salmon | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 1 c | | |
| 2018 | 6214 | Smocked fish | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 1 c | | |
| 2018 | 6215 | Smoked salmon | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 1 c | | |
| 2018 | 6216 | Marinated duck | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 1 c | | |
| 2018 | 6217 | Marinated beef | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 1 c | | |
| 2018 | 6218 | Seasoned pork meat | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 1 c | | |

| MEAT PRODUCTS | | | | | | | | | | | | | | | | | | | | | |
|---------------|-----------|-----------------------------------|------------------------------|----------------------|----------------|----------------------|--------|-----------------------------|---|------------------------------|-------------------------|---------------------|----------------------|-----------------------------|-----------------------------------|------------------------------|--------------|----------|------|--|--|
| Date | Sample N° | Product | Reference method : ISO 6579* | | | | | | Alternative method : MicroSEQ Salmonella spp (PrepSEQ™ Rapid Spin protocol) | | | | | | | | | Category | Type | | |
| | | | RVS broth | | MKTn broth | | Result | PCR result (Cq) | Confirmation (Reference method) | Confirmation (RVS/XLD/Latex) | Final result Ref. conf. | Agreement Ref.conf. | Final result RVS/XLD | Agreement RVS/XLD | Storage BPW for 72 h at 5°C ± 3°C | | | | | | |
| | | | XLD | CHROMagar Salmonella | XLD | CHROMagar Salmonella | | | | | | | | | PCR result (Cq) | Confirmation | Final result | | | | |
| 2010 | 952 | Mechanically deboned poultry meat | - | - | - | - | - | - | - | - | - | NA | - | NA | - | - | - | - | 2 a | | |
| 2010 | 953 | Mechanically deboned poultry meat | - | - | - | - | - | - | - | - | - | NA | - | NA | - | - | - | - | 2 a | | |
| 2010 | 954 | Hen meat pieces | - | - | - | - | - | - | - | - | - | NA | - | NA | - | - | - | - | 2 a | | |
| 2010 | 1027 | Deboned breast | - | - | - | - | - | - | - | - | - | NA | - | NA | - | - | - | - | 2 a | | |
| 2010 | 1029 | Turkey tournedos | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 2 a | | |
| 2010 | 1067 | Mechanically deboned poultry meat | - | - | - | - | - | - | - | - | - | NA | - | NA | - | - | - | - | 2 a | | |
| 2010 | 1072 | Hen meat pieces | - | - | - | - | - | - | - | - | - | NA | - | NA | - | - | - | - | 2 a | | |
| 2010 | 1074 | Hen pieces with skin | +(NC) | - | +(NC) | - | - | - | - | - | - | NA | - | NA | - | - | - | - | 2 a | | |
| 2010 | 1104 | Mechanically deboned poultry meat | - | - | - | - | - | - | - | - | - | NA | - | NA | - | - | - | - | 2 a | | |
| 2010 | 1135 | Hen | - | - | - | - | - | - | - | - | - | NA | - | NA | - | - | - | - | 2 a | | |
| 2010 | 1136 | Hen | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 2 a | | |
| 2010 | 1970 | Poultry neck skin | - | +(ox+) | - | - | - | - | - | - | - | NA | - | NA | - | - | - | - | 2 a | | |
| 2010 | 1971 | Poultry neck skin | +ni/+ | +(ox+) | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 2 a | | |
| 2010 | 1972 | Cockerel | - | +(ox+) | - | - | - | +/-36,2/-38,1) | - | - | - | PPNA | - | NA | - | - | - | NA | 2 a | | |
| 2010 | 2157 | Turkey roast | - | - | - | - | - | - | - | - | - | NA | - | NA | - | - | - | - | 2 a | | |
| 2018 | 6329 | Raw poultry meat | - | - | - | - | - | - | i/-* | - | - | NA | - | NA | i/-* | - | - | NA | 2 a | | |
| 2018 | 6330 | Raw turkey meat | - | - | - | - | - | - | - | - | - | NA | - | NA | - | - | - | - | 2 a | | |
| 2018 | 6331 | Raw poultry meat | +m | +m | +M | +m | + | +22,40) | + | + | PA | + | PA | + | PA | +(31,27) | + | PA | 2 a | | |
| 2018 | 6332 | Seasoned turkey meat | +m | +m | +m | +m | + | +25,00) | + | + | PA | + | PA | + | PA | +(25,14) | + | PA | 2 a | | |
| 2018 | 6333 | Brine turkey meat | - | - | - | - | - | - | - | - | NA | - | NA | - | - | - | - | - | 2 a | | |
| 2018 | 6334 | Chicken fillet | +m(P.mirabilis) | - | +M(NC on TSA°) | - | - | -/- | - | - | NA | - | NA | - | - | -(P.mirabilis) | - | NA | 2 a | | |
| 2018 | 6335 | Turkey meat | +m (x3 E.coli/ P.mirabilis) | - | - | - | - | -/- | - | - | NA | - | NA | - | - | -(P.mirabilis) | - | NA | 2 a | | |
| 2018 | 6336 | Turkey fillet | - | - | - | - | - | - | - | - | NA | - | NA | - | - | - | - | - | 2 a | | |
| 2018 | 6957 | Raw poultry meat | - | - | - | - | - | - | - | - | NA | - | NA | - | - | - | - | - | 2 a | | |
| 2018 | 6958 | Raw poultry meat | - | - | - | - | - | - | - | - | NA | - | NA | +34,54)/ +(35,02)/ +(34,89) | 5x(RVS/ MKTTN/ MSRV):- | - | PPNA | 2 a | | | |
| 2018 | 6959 | Raw poultry meat | - | - | - | - | - | - | - | - | NA | - | NA | - | - | - | - | - | 2 a | | |
| 2018 | 6960 | Raw poultry meat | - | - | - | - | - | - | - | - | NA | - | NA | - | - | - | - | - | 2 a | | |
| 2018 | 6961 | Raw poultry meat | +m | +m | +M | +M | + | +27,13) | + | + | PA | + | PA | + | PA | +(26,10) | + | PA | 2 a | | |
| 2018 | 7227 | Turkey meat | +(2 colonies) NC on TSA | - | +m/- | - | - | +34,89)/ +(35,48)/ +(35,96) | - | 5x(RVS/ MKTTN/ MSRV):- | - | PPNA | - | PPNA | - | -(37,99)/ -(38,02)/ -(38,04) | - | NA | 2 a | | |
| 2018 | 7228 | Turkey meat | +M | +M | +M | +M | + | +25,20) | + | + | PA | + | PA | + | PA | +(25,99) | + | PA | 2 a | | |
| 2018 | 7229 | Chicken meat | +M | +M | +M | +1/2 | + | +20,42) | + | + | PA | + | PA | + | PA | +(21,92) | + | PA | 2 a | | |
| 2018 | 7230 | Chicken meat | +M | +M | +M | +M | + | +25,41) | + | + | PA | + | PA | + | PA | +(25,07) | + | PA | 2 a | | |
| 2018 | 7231 | Duck meat | +M | +M | +M | +M | + | +28,51) | + | + | PA | + | PA | + | PA | +(25,81) | + | PA | 2 a | | |
| 2010 | 951 | Pork meat | - | - | - | - | - | - | - | - | NA | - | NA | - | - | - | - | - | 2 b | | |
| 2010 | 1011 | Pork "crêpine" | + | + | + | + | + | + | + | + | PA | + | PA | + | PA | + | + | PA | 2 b | | |
| 2010 | 1013 | Pork-rind | - | - | - | - | - | - | - | - | NA | - | NA | - | - | - | - | - | 2 b | | |
| 2010 | 1015 | Sausage meat | - | - | - | - | - | - | - | - | NA | - | NA | - | - | - | - | - | 2 b | | |
| 2010 | 1017 | Pork breast | - | - | - | - | - | - | - | - | NA | - | NA | - | - | - | - | - | 2 b | | |
| 2010 | 1019 | Pork tongue | - | - | - | - | - | - | - | - | NA | - | NA | - | - | - | - | - | 2 b | | |
| 2010 | 1021 | Pork breast | - | - | - | - | - | - | - | - | NA | - | NA | - | - | - | - | - | 2 b | | |

* Analyses performed according to the COFRAC accreditation

| MEAT PRODUCTS | | | | | | | | | | | | | | | | | | | | | |
|---------------|-----------|---------------------------------------|----------------------------------|----------------------|---------------------------------|----------------------|--------|-----------------|---|------------------------------|-------------------------|---------------------|----------------------|-------------------|-----------------------------------|--------------|--------------|----------|------|--|--|
| Date | Sample N° | Product | Reference method : ISO 6579♦ | | | | | | Alternative method : MicroSEQ Salmonella spp (PrepSEQ™ Rapid Spin protocol) | | | | | | | | | Category | Type | | |
| | | | RVS broth | | MKTn broth | | Result | PCR result (Cq) | Confirmation (Reference method) | Confirmation (RVS/XLD/Latex) | Final result Ref. conf. | Agreement Ref.conf. | Final result RVS/XLD | Agreement RVS/XLD | Storage BPW for 72 h at 5°C ± 3°C | | | | | | |
| | | | XLD | CHROMagar Salmonella | XLD | CHROMagar Salmonella | | | | | | | | | PCR result (Cq) | Confirmation | Final result | | | | |
| 2010 | 1025 | Knuckle of pork | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 2 b | | |
| 2010 | 1069 | Sausage meat | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 2 b | | |
| 2010 | 1073 | Meat based stuffing | +(<i>Citrobacter freundii</i>) | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 2 b | | |
| 2010 | 1075 | Pork meat (Crépinette) | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 2 b | | |
| 2010 | 1076 | Dried sausage | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 2 b | | |
| 2010 | 1094 | Pork tongue | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 2 b | | |
| 2010 | 1095 | Pork rind | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 2 b | | |
| 2010 | 1096 | Pork meat caul (crépine) | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 2 b | | |
| 2010 | 1097 | Pork rind | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 2 b | | |
| 2010 | 1098 | Pork breast | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 2 b | | |
| 2010 | 1099 | Pork breast | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 2 b | | |
| 2010 | 1100 | Pork meat caul (crépine) | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 2 b | | |
| 2010 | 1102 | Sausages with herbs | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 2 b | | |
| 2010 | 1103 | Sausage meat | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 2 b | | |
| 2010 | 1113 | Pork shoulder | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 2 b | | |
| 2010 | 1130 | Dried sausage | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 2 b | | |
| 2010 | 1131 | Pork-rind | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 2 b | | |
| 2010 | 1132 | Pork tongue | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 2 b | | |
| 2010 | 1133 | Pork carcass | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 2 b | | |
| 2010 | 1134 | Pork carcass | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 2 b | | |
| 2010 | 1137 | Pork tongue | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 2 b | | |
| 2010 | 1194 | Pork meat caul (crépine) | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 2 b | | |
| 2010 | 1195 | Pork meat caul (crépine) | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 2 b | | |
| 2010 | 1196 | Pork tongue | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 2 b | | |
| 2010 | 1197 | Pork tongue | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 2 b | | |
| 2010 | 1226 | Sausages (Fricadelles) | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 2 b | | |
| 2010 | 1227 | Sausages (Fricadelles) | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 2 b | | |
| 2010 | 1241 | Carcass | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 2 b | | |
| 2010 | 1965 | Sausages | - | +ni/+(ox+) | +(<i>Citrobacter youngae</i>) | - | - | +/- | - | - | - | PPNA | - | NA | -/- | - | - | NA | 2 b | | |
| 2010 | 1966 | Sausages with herbs | +ni/+ | +ni/+(ox+) | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 2 b | | |
| 2010 | 1967 | Pork ribs | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 2 b | | |
| 2010 | 1968 | Pork liver | - | - | + | + | + | + | + | + | - | PA | - | ND | + | + | + | PA | 2 b | | |
| 2010 | 1969 | Pork shoulder | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 2 b | | |
| 2018 | 6337 | Cooked pork meat | st | st | st | st | - | - | - | - | - | NA | - | NA | | | | | 2 b | | |
| 2018 | 6338 | Pork meat | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 2 b | | |
| 2018 | 6952 | Raw pork meat | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 2 b | | |
| 2018 | 6953 | Raw pork meat | +M | +M | +1/2 | +1/2 | + | (16,98) | + | + | + | PA | + | PA | +(17,29) | + | + | PA | 2 b | | |
| 2018 | 6954 | Raw pork meat | - | - | - | - | - | - | - | - | - | NA | - | NA | -(38,01) | - | - | NA | 2 b | | |
| 2018 | 6955 | Raw pork meat | +m | +1/2 | +1/2 | +m | + | (23,31) | + | + | + | PA | + | PA | +(23,31) | + | + | PA | 2 b | | |
| 2018 | 6956 | Raw pork meat | - | st | - | - | - | i/-* | - | - | - | NA | - | NA | | | | | 2 b | | |
| 2010 | 1023 | Thin flank of beef | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 2 c | | |
| 2010 | 1031 | Ground beef (Bolognaise) | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 2 c | | |
| 2010 | 1068 | Ground beef (Bolognaise) | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 2 c | | |
| 2010 | 1071 | Maxi steak | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 2 c | | |
| 2010 | 1101 | Ground beef (Bolognaise) | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 2 c | | |
| 2010 | 1105 | Minced beef and pork-based meat balls | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 2 c | | |
| 2010 | 1106 | Ground beef | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 2 c | | |
| 2010 | 1214 | Ground beef | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 2 c | | |

| MEAT PRODUCTS | | | | | | | | | | | | | | | | | | | Category | Type | |
|---------------|-----------|--------------------------------|------------------------------|----------------------|------------|----------------------|--------|-----------------|---|------------------------------|-------------------------|---------------------|----------------------|-------------------|-----------------------------------|--------------|--------------|-----------|----------|------|---|
| Date | Sample N° | Product | Reference method : ISO 6579♦ | | | | | | Alternative method : MicroSEQ Salmonella spp (PrepSEQ™ Rapid Spin protocol) | | | | | | | | | Category | Type | | |
| | | | RVS broth | | MKTn broth | | Result | PCR result (Cq) | Confirmation (Reference method) | Confirmation (RVS/XLD/Latex) | Final result Ref. conf. | Agreement Ref.conf. | Final result RVS/XLD | Agreement RVS/XLD | Storage BPW for 72 h at 5°C ± 3°C | | | | | | |
| | | | XLD | CHROMagar Salmonella | XLD | CHROMagar Salmonella | | | | | | | | | PCR result (Cq) | Confirmation | Final result | Agreement | | | |
| 2010 | 1215 | Frozen ground beef with onions | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 2 | c | |
| 2010 | 1216 | Meat balls | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 2 | c | |
| 2010 | 1228 | Veal paupiette | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 2 | c | |
| 2010 | 1229 | Veal paupiette | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 2 | c | |
| 2018 | 6339 | Raw veal meat | +p | +p | +M | +p | + | +(24,95) | + | + | + | PA | + | PA | + | +(25,08) | + | + | PA | 2 | c |
| 2018 | 6340 | Raw veal meat | +p | +p | +M | +M | + | +(22,62) | + | + | + | PA | + | PA | + | +(22,23) | + | + | PA | 2 | c |
| 2018 | 6341 | Raw veal meat | +M | - | +mdni | - | + | +(29,24) | + | + | + | PA | + | PA | + | +(28,84) | + | + | PA | 2 | c |
| 2018 | 6342 | Raw beef meat | +M | - | +1/2 | +m | + | +(26,49) | + | + | + | PA | + | PA | + | +(25,36) | + | + | PA | 2 | c |
| 2018 | 6343 | Raw beef meat | +M | +M | +M | +M | + | +(18,59) | + | + | + | PA | + | PA | + | +(18,58) | + | + | PA | 2 | c |
| 2018 | 6344 | Raw beef meat | +M | +M | +M | +M | + | +(24,15) | + | + | + | PA | + | PA | + | +(23,75) | + | + | PA | 2 | c |
| 2018 | 6352 | Raw beef meat | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 2 | c | |
| 2018 | 6353 | Raw veal meat | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 2 | c | |

| DAIRY PRODUCTS | | | | | | | | | | | | | | | | | | | | | |
|----------------|-----------|----------------------------------|------------------------------|----------------------|------------|----------------------|--------|-----------------|---|------------------------------|-------------------------|---------------------|----------------------|-------------------|-----------------------------------|--------------|--------------|----------|------|-----|--|
| Date | Sample N° | Product | Reference method : ISO 6579* | | | | | | Alternative method : MicroSEQ Salmonella spp (PrepSEQ™ Rapid Spin protocol) | | | | | | | | | Category | Type | | |
| | | | RVS broth | | MKTn broth | | Result | PCR result (Cq) | Confirmation (Reference method) | Confirmation (RVS/XLD/Latex) | Final result Ref. conf. | Agreement Ref.conf. | Final result RVS/XLD | Agreement RVS/XLD | Storage BPW for 72 h at 5°C ± 3°C | | | | | | |
| | | | XLD | CHROMagar Salmonella | XLD | CHROMagar Salmonella | | | | | | | | | PCR result (Cq) | Confirmation | Final result | | | | |
| 2010 | 991 | Cow raw milk | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 3 a | | |
| 2010 | 993 | Ewe raw milk | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 3 a | | |
| 2010 | 995 | Ewe raw milk | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 3 a | | |
| 2010 | 1001 | Goat raw milk | - | - | - | - | - | i/- | - | i/- | - | NA | - | NA | | | | | 3 a | | |
| 2010 | 1057 | Ewe raw milk N°4 | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 3 a | | |
| 2010 | 1058 | Ewe raw milk N°6 | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 3 a | | |
| 2010 | 1059 | Ewe raw milk N°14 | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 3 a | | |
| 2010 | 1060 | Ewe raw milk N°13 | - | +/- | - | - | - | + | + | + | + | PA | + | PA | + | + | + | PA | 3 a | | |
| 2010 | 1061 | Raw cow milk cheese | - | - | - | - | - | i/+i/i | - | - | - | PPNA | - | NA | +/i/i | - | - | PPNA | 3 a | | |
| 2010 | 1063 | Cow raw milk | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 3 a | | |
| 2010 | 1064 | Raw milk N°11 | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 3 a | | |
| 2010 | 1065 | Raw milk N°13 | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 3 a | | |
| 2010 | 1985 | Raw milk | - | - | - | - | - | + | - | (+ MSRV/XLD) | + | PD | + | PD | + | - | (+ MSRV/XLD) | + | PD | 3 a | |
| 2010 | 1987 | Raw milk | +ni/+ | - | + | + | + | + | -(0)/-(36,2)/-(36,1) | + | + | ND | - | ND | -(37,1)/-(37,3)/-(38,3) | + | - | ND | 3 a | | |
| 2010 | 2364 | Raw milk | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 3 a | | |
| 2010 | 2365 | Cream | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 3 a | | |
| 2010 | 2366 | Lait ribot | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 3 a | | |
| 2010 | 2367 | Gros lait | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 3 a | | |
| 2010 | 2368 | Cream | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 3 a | | |
| 2010 | 2369 | Raw milk | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 3 a | | |
| 2010 | 2549 | Raw milk | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 3 a | | |
| 2010 | 2550 | Raw milk | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 3 a | | |
| 2010 | 2551 | Raw milk | - | + | + | + | + | + | + | + | + | PA | - | ND | + | + | + | PA | 3 a | | |
| 2010 | 2555 | Raw milk cheese (Comté) | - | - | - | - | - | - | - | - | - | NA | - | NA | - | | | | 3 a | | |
| 2010 | 2568 | Raw milk | +ni/+ | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 3 a | | |
| 2010 | 2569 | Raw milk | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 3 a | | |
| 2010 | 950 | Raw cow milk cheese | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 3 b | | |
| 2010 | 997 | Raw milk cheese | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 3 b | | |
| 2010 | 999 | Ewe raw milk cheese | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 3 b | | |
| 2010 | 1062 | Raw cow milk cheese | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 3 b | | |
| 2010 | 1066 | Raw milk cheese | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 3 b | | |
| 2010 | 1378 | Raw milk cheese (Morbier) | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 3 b | | |
| 2010 | 1379 | Pasteurized milk cheese (Gouda) | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 3 b | | |
| 2010 | 1381 | Raw milk cheese (Saint Nectaire) | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 3 b | | |
| 2010 | 1396 | Raw milk cheese (Brie de Meaux) | - | - | - | - | - | i/- | - | - | - | NA | - | NA | | | | | 3 b | | |
| 2010 | 1977 | Raw milk cheese | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 3 b | | |
| 2010 | 1978 | Raw milk cheese | - | - | - | + | - | + | + | + | - | PA | - | ND | + | + | + | PA | 3 b | | |
| 2010 | 1979 | Raw milk cheese | - | - | - | + | - | + | + | + | - | PA | - | ND | + | + | + | PA | 3 b | | |
| 2010 | 1980 | Raw milk cheese | - | - | - | - | - | +/+/(34,8) | - | - | - | PPNA | - | NA | - | - | - | NA | 3 b | | |
| 2010 | 1986 | Raw milk cheese (Rocamadour) | - | - | - | + | - | + | + | + | + | PA | + | PA | + | + | + | PA | 3 b | | |

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| DAIRY PRODUCTS | | | | | | | | | | | | | | | | | | | Category | Type | | |
|----------------|-----------|-----------------------------------|------------------------------|----------------------|------------|----------------------|---------------------|-------------------------------------|---|------------------------------|-------------------------|---------------------|----------------------|-------------------|-----------------------------------|--------------|--------------|-----------|----------|------|--|--|
| Date | Sample N° | Product | Reference method : ISO 6579◆ | | | | | | Alternative method : MicroSEQ Salmonella spp (PrepSEQ™ Rapid Spin protocol) | | | | | | | | | | | | | |
| | | | RVS broth | | MKTn broth | | Result | PCR result (Cq) | Confirmation (Reference method) | Confirmation (RVS/XLD/Latex) | Final result Ref. conf. | Agreement Ref.conf. | Final result RVS/XLD | Agreement RVS/XLD | Storage BPW for 72 h at 5°C ± 3°C | | | | | | | |
| | | | XLD | CHROMagar Salmonella | XLD | CHROMagar Salmonella | | | | | | | | | PCR result (Cq) | Confirmation | Final result | Agreement | | | | |
| 2010 | 1988 | Raw milk cheese (Saint Nectaire) | +ni/+ | - | +ni/+ | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 3 | b | | |
| 2010 | 2257 | Raw milk cheese (Tomme de Savoie) | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 3 | b | | |
| 2010 | 2258 | Raw milk cheese (Morbier) | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 3 | b | | |
| 2010 | 2259 | Raw milk cheese (Salers) | +ni/+ | - | + | - | + | + | + | + | + | PA | + | PA | + | + | + | PA | 3 | b | | |
| 2010 | 2260 | Raw milk cheese (Raclette) | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 3 | b | | |
| 2010 | 2379 | Cheese (Brie) | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 3 | b | | |
| 2010 | 2380 | Cheese (Rustique) | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 3 | b | | |
| 2010 | 2381 | Cheese | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 3 | b | | |
| 2010 | 2552 | Raw milk cheese (Tomme des Avis) | +ni/+ | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 3 | b | | |
| 2010 | 2553 | Raw milk cheese (Morbier) | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 3 | b | | |
| 2010 | 2554 | Raw milk cheese (Saint Nectaire) | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 3 | b | | |
| 2010 | 2556 | Raw milk cheese (Bethmale) | - | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 3 | b | | |
| 2010 | 1090 | Milk powder | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 3 | c | | |
| 2010 | 1091 | Milk powder | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 3 | c | | |
| 2010 | 1092 | Milk powder | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 3 | c | | |
| 2010 | 1093 | Milk powder | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 3 | c | | |
| 2010 | 1210 | Ice cream (mint-chocolate) | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 3 | c | | |
| 2010 | 1211 | Vanilla ice cream | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 3 | c | | |
| 2010 | 1212 | Coffee ice cream | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 3 | c | | |
| 2010 | 1973 | Milk powder (RAEMA) | - | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 3 | c | | |
| 2010 | 1974 | Milk powder (RAEMA) | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 3 | c | | |
| 2010 | 1975 | Milk powder (RAEMA) | - | - | - | - | - | + (35,09)/ + (34,9)/ + (34,2) | - | - | - | PPNA | - | NA | +/- | - | - | PPNA | 3 | c | | |
| 2010 | 1976 | Milk powder (RAEMA) | - | - | - | - | - | + (34,2)/-+ | - | - | - | PPNA | - | NA | + (28,4)/+/ + (27,3) | - | - | PPNA | 3 | c | | |
| 2010 | 2370 | Ice cream (Pistachio) | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 3 | c | | |
| 2010 | 2371 | Ice cream(nougat) | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 3 | c | | |
| 2010 | 2372 | Milk rice | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 3 | c | | |
| 2010 | 2373 | Tiramisu | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 3 | c | | |
| 2010 | 2374 | Chantilly | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 3 | c | | |
| 2010 | 2375 | Chantilly | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 3 | c | | |
| 2010 | 2376 | Tiramisu | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 3 | c | | |
| 2010 | 2377 | Chantilly | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 3 | c | | |
| 2010 | 2378 | Milk rice | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 3 | c | | |
| 2010 | 2382 | Ice cream (Pistachio) | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 3 | c | | |
| 2010 | 2383 | Ice cream(nougat) | - | - | - | - | +/- (Acinetobacter) | - | - | - | - | NA | - | NA | | | | | 3 | c | | |
| 2018 | 6208 | Dairy dessert | +M | +M | +M | +M | +M | + (30,35) | + | + | + | PA | + | PA | + (30,76) | + | + | PA | 3 | c | | |
| 2018 | 6345 | Dairy dessert (chocolate) | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 3 | c | | |

| EGG PRODUCTS | | | | | | | | | | | | | | | | | | | Category | Type | |
|--------------|-----------|---|------------------------------|----------------------|------------|----------------------|--------|-----------------------------------|---|------------------------------|-------------------------|---------------------|----------------------|-------------------|-----------------------------------|--------------|--------------|-----------|----------|------|---|
| Date | Sample N° | Product | Reference method : ISO 6579* | | | | | | Alternative method : MicroSEQ Salmonella spp (PrepSEQ™ Rapid Spin protocol) | | | | | | | | | Category | Type | | |
| | | | RVS broth | | MKTn broth | | Result | PCR result (Cq) | Confirmation (Reference method) | Confirmation (RVS/XLD/Latex) | Final result Ref. conf. | Agreement Ref.conf. | Final result RVS/XLD | Agreement RVS/XLD | Storage BPW for 72 h at 5°C ± 3°C | | | | | | |
| | | | XLD | CHROMagar Salmonella | XLD | CHROMagar Salmonella | | | | | | | | | PCR result (Cq) | Confirmation | Final result | Agreement | | | |
| 2010 | 1402 | Whole egg powder | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 4 | a | |
| 2010 | 1403 | White egg powder | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 4 | a | |
| 2010 | 1404 | Whole egg powder | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 4 | a | |
| 2010 | 1405 | White egg powder | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 4 | a | |
| 2010 | 2384 | Egg yolk powder | - | - | - | - | - | i/- | - | - | - | NA | - | NA | | | | | 4 | a | |
| 2010 | 2385 | Egg yolk powder | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 4 | a | |
| 2010 | 2386 | Whole egg powder | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 4 | a | |
| 2010 | 2387 | White egg powder | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 4 | a | |
| 2010 | 2393 | Egg powder | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 4 | a | |
| 2010 | 2394 | Egg powder | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 4 | a | |
| 2010 | 2395 | Egg powder | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 4 | a | |
| 2010 | 2396 | Egg powder | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 4 | a | |
| 2010 | 2580 | Whole egg powder | - | - | - | - | - | - | - | - | - | NA | - | NA | - | | | | 4 | a | |
| 2018 | 6346 | Preparation for egg-based product (dessert) | st | st | - | - | - | - | - | - | - | NA | - | NA | | | | | 4 | a | |
| 2018 | 6347 | Preparation for egg-based product (dessert) | st | st | st | st | - | - | - | - | - | NA | - | NA | | | | | 4 | a | |
| 2018 | 6348 | White egg powder | st | st | st | st | - | + (35,20) / -/- | - | 5x(RVS/MKTTN/MSRV):- | - | PPNA | - | PPNA | - | - | - | NA | 4 | a | |
| 2018 | 6349 | Yolk egg powder | st | st | st | st | - | i/-* | - | - | NA | - | NA | - | NA | - | - | - | NA | 4 | a |
| 2018 | 6350 | Whole egg powder | st | st | st | st | - | + (35,49) / + (35,99) / + (35,57) | - | 5x(RVS/MKTTN/MSRV):- | - | PPNA | - | PPNA | - | - | - | NA | 4 | a | |
| 2018 | 6351 | White egg powder | st | st | st | st | - | - | - | - | NA | - | NA | | | | | | 4 | a | |
| 2018 | 6972 | White egg powder | st | st | st | st | - | + (33,62) / + (33,33) / + (39,83) | - | 5x(RVS/MKTTN/MSRV):- | - | PPNA | - | PPNA | + (33,54) / + (35,62) / + (34,07) | - | - | PPNA | 4 | a | |
| 2010 | 1003 | Egg white | - | - | - | - | - | - | - | - | NA | - | NA | | | | | | 4 | b | |
| 2010 | 1005 | Egg white | - | - | - | - | - | - | - | - | NA | - | NA | | | | | | 4 | b | |
| 2010 | 1007 | Egg yolk | - | - | - | - | - | i/- | - | i/- | - | NA | - | NA | | | | | 4 | b | |
| 2010 | 1009 | Egg yolk | - | - | - | - | - | - | - | - | NA | - | NA | | | | | | 4 | b | |
| 2010 | 1054 | Egg white | - | - | - | - | - | - | - | - | NA | - | NA | | | | | | 4 | b | |
| 2010 | 1055 | Egg white | - | - | - | - | - | - | - | - | NA | - | NA | | | | | | 4 | b | |
| 2010 | 1056 | Whole egg product | - | - | - | - | - | - | - | - | NA | - | NA | | | | | | 4 | b | |
| 2010 | 2158 | Liquid whole egg | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 4 | b | | |
| 2010 | 2159 | Liquid whole egg | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 4 | b | | |
| 2010 | 2234 | Liquid whole egg | - | - | - | - | - | - | - | - | NA | - | NA | | | | | | 4 | b | |
| 2010 | 2235 | Liquid egg yolk | - | - | - | - | - | i/- | - | - | NA | - | NA | | | | | | 4 | b | |
| 2010 | 2236 | Liquid whole egg | - | - | - | - | - | - | - | - | NA | - | NA | | | | | | 4 | b | |
| 2010 | 2237 | Liquid whole egg | - | - | - | - | - | - | - | - | NA | - | NA | | | | | | 4 | b | |
| 2010 | 2254 | Mayonnaise | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 4 | b | | |
| 2010 | 2388 | Mayonnaise | - | - | - | - | - | - | - | - | NA | - | NA | | | | | | 4 | b | |
| 2010 | 2389 | Mayonnaise | - | - | - | - | - | - | - | - | NA | - | NA | | | | | | 4 | b | |
| 2010 | 2390 | Salad dressing | - | - | - | - | - | - | - | - | NA | - | NA | | | | | | 4 | b | |
| 2010 | 2570 | Liquid whole egg | +ni/+ | +ni | +ni/+ | +/- | + | + | + | + | PA | + | PA | + | + | + | PA | 4 | b | | |
| 2010 | 2571 | Liquid whole egg | + | +ni/+ | +ni/+ | + | + | + | + | + | PA | + | PA | + | + | + | PA | 4 | b | | |
| 2010 | 2572 | Liquid whole egg | + | +ni | +ni/+ | + | + | + | + | + | PA | + | PA | + | + | + | PA | 4 | b | | |
| 2010 | 2573 | Liquid whole egg | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 4 | b | | |

* Analyses performed according to the COFRAC accreditation

| EGG PRODUCTS | | | | | | | | | | | | | | | | | | | | | |
|--------------|-----------|---|------------------------------|----------------------|------------|----------------------|--------|-----------------|---|------------------------------|-------------------------|---------------------|----------------------|-------------------|-----------------------------------|--------------|--------------|----------|------|--|--|
| Date | Sample N° | Product | Reference method : ISO 6579♦ | | | | | | Alternative method : MicroSEQ Salmonella spp (PrepSEQ™ Rapid Spin protocol) | | | | | | | | | Category | Type | | |
| | | | RVS broth | | MKTn broth | | Result | PCR result (Cq) | Confirmation (Reference method) | Confirmation (RVS/XLD/Latex) | Final result Ref. conf. | Agreement Ref.conf. | Final result RVS/XLD | Agreement RVS/XLD | Storage BPW for 72 h at 5°C ± 3°C | | | | | | |
| | | | XLD | CHROMagar Salmonella | XLD | CHROMagar Salmonella | | | | | | | | | PCR result (Cq) | Confirmation | Final result | | | | |
| 2010 | 2574 | Liquid whole egg | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 4 b | | |
| 2010 | 2575 | Mayonnaise | + | +ni | +ni | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 4 b | | |
| 2010 | 2576 | Mayonnaise | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 4 b | | |
| 2010 | 2577 | Mayonnaise | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 4 b | | |
| 2010 | 2578 | Mayonnaise | +ni/+ | +ni | +ni/- | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 4 b | | |
| 2010 | 2579 | Mayonnaise | + | +ni/+ | +ni | +/- | + | + | + | + | + | PA | + | PA | + | + | + | PA | 4 b | | |
| 2010 | 987 | Bread pastry | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 4 c | | |
| 2010 | 1122 | Egg based dessert (île flottante) | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 4 c | | |
| 2010 | 1123 | Egg based cream (vanilla flavor) | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 4 c | | |
| 2010 | 1124 | Chocolate mousse | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 4 c | | |
| 2010 | 1125 | Egg based cream (crème brûlée) | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 4 c | | |
| 2010 | 1217 | Dessert (Crème brûlée au caramel) | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 4 c | | |
| 2010 | 1234 | Pastry with custard (gland) | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 4 c | | |
| 2010 | 1235 | Pastry with custard (gland) | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 4 c | | |
| 2010 | 1236 | Pastry with custard (éclair) | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 4 c | | |
| 2010 | 1237 | Pastry with custard (éclair)) | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 4 c | | |
| 2010 | 1238 | Egg based cream (crème anglaise) | - | - | - | - | - | + (33) / + / + | - | - | - | PPNA | - | NA | - | - | - | NA | 4 c | | |
| 2010 | 1239 | Egg based cream (crème anglaise) | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 4 c | | |
| 2010 | 2255 | Dressing (Béarnaise) | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 4 c | | |
| 2010 | 2256 | Dressing (Hollandaise) | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 4 c | | |
| 2010 | 2391 | Dressing (Hollandaise) | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 4 c | | |
| 2010 | 2392 | Baked custard | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 4 c | | |
| 2010 | 2611 | Vanilla egg cream | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 4 c | | |
| 2010 | 2612 | Chocolate mousse | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 4 c | | |
| 2010 | 2616 | Preparation for baked custard and cream | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 4 c | | |
| 2010 | 2617 | Preparation for baked custard | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 4 c | | |

| SEAFOOD AND VEGETABLES (except sprouts) | | | | | | | | | | | | | | | | | | | | | |
|---|-----------|-----------------------|------------------------------|----------------------|---------------------------|----------------------|--------|-----------------------|---|------------------------------|-------------------------|---------------------|----------------------|-------------------|-----------------------------------|--------------|--------------|----------|------|--|--|
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| | | | RVS broth | | MKTTn broth | | Result | PCR result (Cq) | Confirmation (Reference method) | Confirmation (RVS/XLD/Latex) | Final result Ref. conf. | Agreement Ref.conf. | Final result RVS/XLD | Agreement RVS/XLD | Storage BPW for 72 h at 5°C ± 3°C | | | | | | |
| | | | XLD | CHROMagar Salmonella | XLD | CHROMagar Salmonella | | | | | | | | | PCR result (Cq) | Confirmation | Final result | | | | |
| 2010 | 1118 | Cooked shrimps | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 5 a | | |
| 2010 | 1119 | Crayfish tails | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 5 a | | |
| 2010 | 1203 | Sole fillet | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 5 a | | |
| 2010 | 1205 | Frozen Sole | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 5 a | | |
| 2010 | 1240 | Cooked shrimps | - | - | - | +/- (1col:ox+) | - | - | - | - | - | NA | - | NA | | | | | 5 a | | |
| 2010 | 1384 | Frozen fish | - | - | - | +/- (ox+) | - | - | - | - | - | NA | - | NA | | | | | 5 a | | |
| 2010 | 1386 | Whiting fillet | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 5 a | | |
| 2010 | 1387 | Coalfish fillet | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 5 a | | |
| 2010 | 2401 | Surimi | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 5 a | | |
| 2018 | 6504 | Fish fillet | - | - | - | - | - | i/-* | - | - | - | NA | - | NA | | | | | 5 a | | |
| 2018 | 6505 | Fish fillet | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 5 a | | |
| 2018 | 6506 | Fish | - | - | +md (NC on TSA) | +md (NC) | - | - | - | - | - | NA | - | NA | - | - | - | NA | 5 a | | |
| 2018 | 6507 | Fish fillet | +p | +M | +M | +M | + | + (34,35) | + | + | + | PA | + | PA | + (31,76) | + | + | PA | 5 a | | |
| 2018 | 6508 | Fish fillet | +p | +p | +m | +m | + | -/- | + | + | - | ND | - | ND | -/- | + | - | ND | 5 a | | |
| 2018 | 6509 | Shellfish | +p | +p | +p | +p | + | + (12,91) | + | + | + | PA | + | PA | + (12,98) | + | + | PA | 5 a | | |
| 2018 | 6510 | Shellfish | +p | +p | +M | +M | + | + (15,11) | + | + | + | PA | + | PA | + (14,32) | + | + | PA | 5 a | | |
| 2018 | 6515 | Fish fillet | - | - | +m (NC on TSA/M.morganii) | - | - | - | - | - | - | NA | - | NA | - | - | - | NA | 5 a | | |
| 2018 | 6516 | Fish | - | - | +m (E.coli) | - | - | - | - | - | - | NA | - | NA | - | - | - | NA | 5 a | | |
| 2018 | 6517 | Fish fillet | - | - | +md (M.morganii) | - | - | - | - | - | - | NA | - | NA | - | - | - | NA | 5 a | | |
| 2018 | 6518 | Shellfish | st | st | st | st | - | - | - | - | - | NA | - | NA | | | | | 5 a | | |
| 2018 | 6519 | Shellfish | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 5 a | | |
| 2018 | 6962 | Raw salmon | +p | +p | +M | +1/2 | + | + (26,14) | + | + | + | PA | + | PA | + (25,02) | + | + | PA | 5 a | | |
| 2018 | 6963 | Raw squid | +p | +p | +p | +p | + | + (19,22) | + | + | + | PA | + | PA | + (18,74) | + | + | PA | 5 a | | |
| 2018 | 6964 | Mackerel | +p | +p | +M | +M | + | + (25,76) | + | + | + | PA | + | PA | + (26,19) | + | + | PA | 5 a | | |
| 2018 | 6591 | Baby leaves (spinach) | +m | +m | +m | +m | + | -/- (37,14)/ (-38,13) | + | + (Latex weak) | - | ND | - | ND | -/- (37,16)/- | + | - | ND | 5 b | | |
| 2018 | 6592 | Baby leaves (salad) | +p | +p | +M | +p | + | + (19,61) | + | + | + | PA | + | PA | + (18,19) | + | + | PA | 5 b | | |
| 2018 | 6593 | Baby leaves (salad) | +M | +m | +M | +m | + | + (28,50) | + | + | + | PA | + | PA | + (28,20) | + | + | PA | 5 b | | |
| 2018 | 6594 | Baby leaves (salad) | +m | +m | +m | +m | + | + (26,10) | + | + | + | PA | + | PA | + (24,15) | + | + | PA | 5 b | | |
| 2018 | 6595 | Baby leaves (mix) | +md (C.youngae) | - | - | - | - | -/- (38,08)/ (-36,39) | - | - | - | NA | - | NA | -/- (38,97)/- | +(H.alvei) | - | NA | 5 b | | |
| 2018 | 6596 | Baby leaves (salad) | +M | +m | +m | +m | + | + (32,04) | + | + | + | PA | + | PA | + (31,28) | + | + | PA | 5 b | | |
| 2018 | 6602 | Baby leaves (salad) | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 5 b | | |
| 2018 | 6603 | Baby leaves (spinach) | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 5 b | | |
| 2018 | 6604 | Baby leaves (salad) | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 5 b | | |
| 2018 | 6605 | Baby leaves (salad) | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 5 b | | |
| 2018 | 6606 | Baby leaves (mix) | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 5 b | | |
| 2018 | 6968 | Produces mesclun | +M | +M | +M | +M | + | + (22,00) | + | + | + | PA | + | PA | + (18,62) | + | + | PA | 5 b | | |
| 2018 | 6969 | Baby leaves | +M | +M | +m | -m | + | + (33,55) | + | + | + | PA | + | PA | + (34,36) | + | + | PA | 5 b | | |
| 2018 | 6970 | Iceberg salad | +p | +p | +p | +p | + | + (15,22) | + | + | + | PA | + | PA | + (14,23) | + | + | PA | 5 b | | |
| 2018 | 6971 | Salad (Sucrine) | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 5 b | | |
| 2018 | 7232 | Mixed baby-leaves | +1/2 | +m | +1/2 | +1/2 | + | + (31,56) | + | + | + | PA | + | PA | + (32,19) | + | + | PA | 5 b | | |
| 2018 | 7233 | Salad (Mâche) | +1/2 | +M | +M | +M | + | + (24,47) | + | + | + | PA | + | PA | + (23,44) | + | + | PA | 5 b | | |
| 2018 | 7234 | Salad | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 5 b | | |
| 2018 | 7235 | Salad | st | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 5 b | | |
| 2018 | 7236 | Salad | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 5 b | | |
| 2018 | 7237 | Mixed baby-leaves | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 5 b | | |

* Analyses performed according to the COFRAC accreditation

| SEAFOOD AND VEGETABLES (except sprouts) | | | | | | | | | | | | | | | | | | | | | |
|---|-----------|---------------------------------|------------------------------|----------------------|------------|----------------------|--------|-----------------|---|------------------------------|-------------------------|---------------------|----------------------|-------------------|-----------------------------------|--------------|--------------|----------|------|--|--|
| Date | Sample N° | Product | Reference method : ISO 6579♦ | | | | | | Alternative method : MicroSEQ Salmonella spp (PrepSEQ™ Rapid Spin protocol) | | | | | | | | | Category | Type | | |
| | | | RVS broth | | MKTn broth | | Result | PCR result (Cq) | Confirmation (Reference method) | Confirmation (RVS/XLD/Latex) | Final result Ref. conf. | Agreement Ref.conf. | Final result RVS/XLD | Agreement RVS/XLD | Storage BPW for 72 h at 5°C ± 3°C | | | | | | |
| | | | XLD | CHROMagar Salmonella | XLD | CHROMagar Salmonella | | | | | | | | | PCR result (Cq) | Confirmation | Final result | | | | |
| 2010 | 1198 | Frozen minced vegetables | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 5 c | | |
| 2010 | 1199 | Frozen Asian vegetables | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 5 c | | |
| 2010 | 1200 | Frozen vegetables (ratatouille) | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 5 c | | |
| 2010 | 1201 | Frozen mixed vegetables | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 5 c | | |
| 2010 | 1377 | Frozen Asian vegetables | - | - | - | +/- (1col:ox+)) | - | - | - | - | - | NA | - | NA | | | | | 5 c | | |
| 2010 | 1382 | Frozen mixed vegetables | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 5 c | | |
| 2010 | 1383 | Frozen mixed vegetables | - | +/- (ox+)) | - | +/- (ox+)) | - | - | - | - | - | NA | - | NA | | | | | 5 c | | |
| 2010 | 1388 | Cauliflower | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 5 c | | |
| 2010 | 1389 | Mixed vegetables | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 5 c | | |
| 2010 | 1390 | Mixed vegetables | + (Citrobacter) | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 5 c | | |
| 2010 | 1406 | Frozen mixed spinach | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 5 c | | |
| 2010 | 1407 | Frozen spinach branches | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 5 c | | |
| 2010 | 1415 | Minced carrots | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 5 c | | |
| 2010 | 1416 | Cauliflower | + | + | + | + | + | +(35,5) | + | + | + | PA | + | PA | +(32,8) | + | + | PA | 5 c | | |
| 2010 | 1417 | Fresh vegetables | - | - | - | +/- (ox+)) | - | - | - | - | - | NA | - | NA | | | | | 5 c | | |
| 2010 | 2558 | Grated carrots | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 5 c | | |
| 2018 | 6511 | Tomato | +p | +p | +p | +p | + | +(13,57) | + | + | + | PA | + | PA | +(13,22) | + | + | PA | 5 c | | |
| 2018 | 6512 | Zucchini | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 5 c | | |
| 2018 | 6513 | Zucchini | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 5 c | | |
| 2018 | 6520 | Tomato | st | st | st | st | - | - | - | - | - | NA | - | NA | | | | | 5 c | | |
| 2018 | 6521 | Zucchini | st | st | - | - | - | - | - | - | - | NA | - | NA | | | | | 5 c | | |
| 2018 | 6965 | Red bell pepper | +M | +M | +1/2 | +1/2 | + | +(19,48) | + | + | + | PA | + | PA | +(19,94) | + | + | PA | 5 c | | |
| 2018 | 6966 | Zucchini | +p | +p | +p | +p | + | +(12,27) | + | + | + | PA | + | PA | +(12,33) | + | + | PA | 5 c | | |
| 2018 | 6967 | Broccoli | +M | +M | +M | +M | + | +(20,38) | + | + | + | PA | + | PA | +(20,10) | + | + | PA | 5 c | | |

| FEED SAMPLES | | | | | | | | | | | | | | | | | | | | | |
|--------------|-----------|--|------------------------------|----------------------|-----------------------|----------------------|--------|---|-----------------------------------|------------------------------|-------------------------|---------------------|----------------------|-------------------|-----------------------------------|--------------|--------------|----------|------|--|--|
| Date | Sample N° | Product | Reference method : ISO 6579* | | | | | Alternative method : MicroSEQ Salmonella spp (PrepSEQ™ Rapid Spin protocol) | | | | | | | | | | Category | Type | | |
| | | | RVS broth | | MKTn broth | | Result | PCR result (Cq) | Confirmation (Reference method) | Confirmation (RVS/XLD/Latex) | Final result Ref. conf. | Agreement Ref.conf. | Final result RVS/XLD | Agreement RVS/XLD | Storage BPW for 72 h at 5°C ± 3°C | | | | | | |
| | | | XLD | CHROMagar Salmonella | XLD | CHROMagar Salmonella | | | | | | | | | PCR result (Cq) | Confirmation | Final result | | | | |
| 2010 | 1397 | Raw meat pet food | - | - | - | +/- (ox+) | - | - | - | - | - | NA | - | NA | | | | | 6 a | | |
| 2010 | 1398 | Raw slaughter pet food | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 6 a | | |
| 2010 | 1982 | Raw meat for pet | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 6 a | | |
| 2010 | 2246 | Raw pork meat for pet | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 6 a | | |
| 2010 | 2247 | Raw pork meat for pet | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 6 a | | |
| 2010 | 2248 | Raw pork meat for pet | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 6 a | | |
| 2010 | 2249 | Raw pork meat for pet | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 6 a | | |
| 2010 | 2410 | Raw bovine meat for animals | + | + | + | + | + | + | (-36,09)/(-35,9)/(+35,40)/(-36,4) | + | + | ND | - | ND | + | + | + | PA | 6 a | | |
| 2010 | 2411 | Raw meat for animals 1 | + | + | - | - | - | + | (-36,1)/(-36,9)/(-39,1) | + | + | ND | - | ND | -/-(-0)/(-0) | + | - | ND | 6 a | | |
| 2010 | 2412 | Raw meat for animals 2 | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 6 a | | |
| 2010 | 2413 | Raw meat for animals 3 | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 6 a | | |
| 2010 | 2414 | Sausage for dog | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 6 a | | |
| 2010 | 2565 | Bone for animals | - | - | - | +ni/- | - | +/-/- (35,7) | - | - | - | PPNA | - | NA | (-37,1)/(-0)/(-37,5) | - | - | NA | 6 a | | |
| 2010 | 2566 | Bovine meat for animals | - | - | - | - | - | - | - | - | - | NA | - | NA | - | | | | 6 a | | |
| 2010 | 2567 | Meat for animals | - | - | - | - | - | - | - | - | - | NA | - | NA | - | | | | 6 a | | |
| 2010 | 2584 | Pork fat | - | - | - | - | - | - | - | - | - | NA | - | NA | - | | | | 6 a | | |
| 2018 | 6522 | Raw meat for pets | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 6 a | | |
| 2018 | 6523 | Raw meat for pets | - | - | +md (Y. regensburgei) | - | - | - | - | - | - | NA | - | NA | - | - | - | NA | 6 a | | |
| 2018 | 6524 | Flour for pet food | +M | +m | +M | +m | + | + (17,20) | + | + | PA | + | PA | + (17,73) | + | + | PA | 6 a | | | |
| 2018 | 6525 | Flour for pet food | +M | +m | +M | +m | + | + (21,27) | + | + | PA | + | PA | + (22,27) | + | + | PA | 6 a | | | |
| 2010 | 1035 | Fish croquettes(feedstuff) | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 6 b | | | |
| 2010 | 1037 | Fish croquettes(feedstuff) | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 6 b | | | |
| 2010 | 1107 | Dog pellet | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 6 b | | | |
| 2010 | 1108 | Dog pellets | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 6 b | | | |
| 2010 | 1109 | Dog pellets | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 6 b | | | |
| 2010 | 1110 | Dog pellets | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 6 b | | | |
| 2010 | 1111 | Dog pellets | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 6 b | | | |
| 2010 | 1112 | Dog pellets | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 6 b | | | |
| 2010 | 1218 | Feedstuff (pellets for dog) | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 6 b | | | |
| 2010 | 1219 | Feedstuff (pellets for dog) | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 6 b | | | |
| 2010 | 1220 | Feedstuff (poultry-based pet food) | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 6 b | | | |
| 2010 | 1221 | Feedstuff (poultry-based pet food) | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 6 b | | | |
| 2010 | 1222 | Feedstuff (rabbit-based pet food) | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 6 b | | | |
| 2010 | 1223 | Feedstuff (rabbit-based pet food) | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 6 b | | | |
| 2010 | 1224 | Feed stuff (beef-based pellets dogfood) | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 6 b | | | |
| 2010 | 1225 | Feed stuff (beef-based pellets dogfood) | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 6 b | | | |

* Analyses performed according to the COFRAC accreditation

| FEED SAMPLES | | | | | | | | | | | | | | | | | | | Category | Type | | |
|--------------|-----------|---|------------------------------|----------------------|------------|----------------------|--------|-----------------|---|------------------------------|-------------------------|---------------------|----------------------|-------------------|-----------------------------------|--------------|--------------|-----------|----------|------|--|--|
| Date | Sample N° | Product | Reference method : ISO 6579♦ | | | | | | Alternative method : MicroSEQ Salmonella spp (PrepSEQ™ Rapid Spin protocol) | | | | | | | | | | | | | |
| | | | RVS broth | | MKTn broth | | Result | PCR result (Cq) | Confirmation (Reference method) | Confirmation (RVS/XLD/Latex) | Final result Ref. conf. | Agreement Ref.conf. | Final result RVS/XLD | Agreement RVS/XLD | Storage BPW for 72 h at 5°C ± 3°C | | | | | | | |
| | | | XLD | CHROMagar Salmonella | XLD | CHROMagar Salmonella | | | | | | | | | PCR result (Cq) | Confirmation | Final result | Agreement | | | | |
| 2010 | 1423 | Meat flour (pet food) | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 6 | b | | |
| 2010 | 1983 | Balls for pet | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 6 | b | | |
| 2010 | 1984 | Big sausage for dog | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 6 | b | | |
| 2010 | 2239 | Pellets | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 6 | b | | |
| 2018 | 6514 | Sausage for dogs | +p | +p | +p | +p | + | +(14,15) | + | + | + | PA | + | PA | +(15,04) | + | + | PA | 6 | b | | |
| 2010 | 947 | Dehydrated poultry proteins (Feedstuff) | + | + | + | + | + | + | + | + | + | PA | + | PA | i/+ | + | + | PA | 6 | c | | |
| 2010 | 948 | Dehydrated poultry proteins (Feedstuff) | + | + | + | + | + | + | + | + | + | PA | + | PA | i/+ | + | + | PA | 6 | c | | |
| 2010 | 1039 | Feedstuff powder | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 6 | c | | |
| 2010 | 1399 | Horse feedstuff | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 6 | c | | |
| 2010 | 1400 | Horse feedstuff | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 6 | c | | |
| 2010 | 1401 | Pig sop | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 6 | c | | |
| 2010 | 1418 | Pork haemoglobin | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 6 | c | | |
| 2010 | 1419 | Dehydrated poultry proteins | + | + | + | + | + | + | + | + | + | PA | + | PA | i/+ | + | + | PA | 6 | c | | |
| 2010 | 1420 | Dehydrated poultry proteins | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 6 | c | | |
| 2010 | 1421 | Feedstuff(dehydrated) | + | + | + | + | + | + | + | + | + | PA | + | PA | i/+ | + | + | PA | 6 | c | | |
| 2010 | 1422 | Dehydrated poultry proteins | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 6 | c | | |
| 2010 | 1424 | Viscera flour | + | + | + | + | + | + | + | + | + | PA | + | PA | i/+ | + | + | PA | 6 | c | | |
| 2010 | 2153 | Feed stuff powder | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 6 | c | | |
| 2010 | 2154 | Feed stuff powder | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 6 | c | | |
| 2010 | 2155 | Feed stuff powder | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 6 | c | | |
| 2010 | 2156 | Feed stuff powder | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 6 | c | | |
| 2010 | 2238 | Pork haemoglobin | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 6 | c | | |
| 2010 | 2240 | Feed stuff powder | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 6 | c | | |
| 2010 | 2241 | Viscera flour (Feed stuff) | + | + | + | + | + | i/+ | + | + | + | PA | + | PA | i/+ | + | + | PA | 6 | c | | |
| 2010 | 2242 | Feed stuff powder | +ni/+ | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 6 | c | | |
| 2010 | 2243 | Viscera flour (Feed stuff) | - | - | - | - | - | i/- | - | - | - | NA | - | NA | | | | | 6 | c | | |
| 2010 | 2244 | Feed stuff powder | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 6 | c | | |
| 2010 | 2245 | Feed for hen | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 6 | c | | |
| 2010 | 2407 | Granules for chicken | - | - | - | - | - | - | - | - | - | NA | - | NA | | | | | 6 | c | | |
| 2010 | 2408 | Granules for pigs | + | + | + | + | + | + | + | + | + | PA | + | PA | + | + | + | PA | 6 | c | | |

Relative accuracy: raw data - Extension Primary Production Samples (2012)

| N° Sample | Product | Global result Rapid Spin | | Global result NA Extraction | | ISO 6579 /A1* | U47-100 | MicroSEQ Salmonella spp | | | | | | | | | | | | | | | | | | | |
|-----------|----------------------------------|-----------------------------|-------------------------------|--------------------------------|-----|-------------------------------|---------|-------------------------------|------------|--------|------------------------------------|-------------------|---|-----------------------------------|--|---------------|------------------|----------------------|----------------------|----------------------------|----------------------------------|-------------------------------------|---------------|------------------|----|----|----|
| | | | | | | Streaking onto | MSRV | Streaking onto | MKTn broth | Result | PCR Rapid Spin | PCR NA Extraction | TT Broth+L ₂ KI +Brilliant Green (16 h at 37°C)+ BPW (4 h at 37°C) | BPW storage for 72 h at 5°C ± 3°C | | | | | | | | | | | | | |
| | | | | | | XLD | | IRIS Salmonella or ASAP | | | | | Confirmatory tests | Final result Rapid Spin | Final result NA Extraction | Agreement | PCR Rapid Spin | PCR NA Extraction | Confirmation | Final result Rapid Spin | Final result NA Extraction | Agreement | | | | | |
| | | XLD | IRIS Salmonella or ASAP | Result | XLD | IRIS Salmonella or ASAP | | XLD | | | | | XLD | IRIS | Result (Latex test and ISO tests) | Rapid Spin | NA Extraction | PCR Rapid Spin | PCR NA Extraction | Confirmation | Final result Rapid Spin | Final result NA Extraction | Rapid Spin | NA Extraction | | | |
| 232 | Poultry faeces | - | - | +/- | - | - | - | +/- | - | - | - | - | - | - | - | - | - | NA | NA | - | - | - | - | NA | NA | | |
| 233 | Poultry faeces | - | - | - | / | / | - | - | / | / | - | - | - | - | - | - | - | NA | NA | | | | | | | | |
| 234 | Boot socks(poultry) | - | - | + | - | - | - | + | - | - | - | - | - | - | - | - | - | NA | NA | - | - | - | - | NA | NA | | |
| 235 | Boot socks(poultry) | - | - | +/- | - | - | - | +/- | - | - | - | - | - | - | - | - | - | NA | NA | - | - | - | - | NA | NA | | |
| 243 | Slaughterhouse poultry faeces | + | + | - | / | / | - | - | / | / | - | - | + | + | +m ni/- | +M | + | + | + | PD | PD | + | + | + | + | PD | PD |
| 996 | Boot socks(poultry) | + | + | - | / | / | - | - | / | / | - | - | + | + | +M | +M | + | + | + | PD | PD | + | + | + | + | PD | PD |
| 997 | Boot socks(poultry) | - | - | - | / | / | - | - | / | / | - | - | - | - | - | - | - | - | NA | NA | | | | | | | |
| 998 | Boot socks(poultry) | + | + | + | +p | +p | + | + | +p | +p | +M | + | - | - | - | - | - | - | ND | ND | - | - | - | - | ND | ND | |
| 999 | Boot socks(poultry) | - | - | - | / | / | - | - | / | / | - | - | - | - | - | - | - | NA | NA | | | | | | | | |
| 1000 | Boot socks(poultry) | + | + | + | +p | +p | + | + | +p | +p | +M | + | - | - | - | - | - | - | ND | ND | - | - | - | - | ND | ND | |
| 1001 | Boot socks(poultry) | + | + | - | / | / | - | - | / | / | - | - | + | i/+ | +M | +M | + | + | + | PD | PD | + | + | + | + | PD | PD |
| 1002 | Boot socks(poultry) | + | + | - | / | / | - | - | / | / | +/-M (<i>Citrobacter</i>) | - | + | i/+ | +M | +M | + | + | + | PD | PD | + | + | + | + | PD | PD |
| 1003 | Boot socks(poultry) | - | - | - | / | / | - | - | / | / | - | - | - | - | - | - | - | - | NA | NA | | | | | | | |
| 1004 | Boot socks(poultry) | + | + | + | +p | +p | + | + | +p | +p | +M | + | - | - | - | - | - | - | ND | ND | - | - | - | - | ND | ND | |
| 1005 | Boot socks(poultry) | + | + | + | +p | +p | + | + | +p | +p | +M | + | - | - | - | - | - | - | ND | ND | - | - | - | - | ND | ND | |
| 1006 | Boot socks(poultry) | - | - | - | / | / | - | - | / | / | - | - | - | - | - | - | - | - | NA | NA | | | | | | | |
| 1007 | Boot socks(poultry) | - | - | - | / | / | - | - | / | / | - | - | - | - | - | - | - | - | NA | NA | | | | | | | |
| 1008 | Boot socks(poultry) | + | + | + | +M | +p | + | + | +M | +p | +M | + | + | + | +M | +M | + | + | + | PA | PA | + | + | + | + | PA | PA |
| 1009 | Boot socks(poultry) | - | - | - | / | / | - | - | / | / | - | - | - | - | - | +/-m | - | - | - | NA | NA | - | - | - | - | NA | NA |
| 1010 | Boot socks(poultry) | - | - | - | / | / | - | - | / | / | - | - | - | - | - | - | - | - | NA | NA | | | | | | | |
| 1011 | Boot socks(poultry) | - | - | - | / | / | - | - | / | / | - | - | - | - | +/-m ni/- | - | - | - | NA | NA | - | - | - | - | NA | NA | |
| 1012 | Boot socks(poultry) | - | - | - | / | / | - | - | / | / | - | - | - | - | +/-m ni/- | - | - | - | NA | NA | - | - | - | - | NA | NA | |
| 1013 | Boot socks(poultry) | - | - | - | / | / | - | - | / | / | -st | - | - | - | -st | -st | - | - | NA | NA | | | | | | | |
| 1014 | Boot socks(poultry) | - | - | - | / | / | - | - | / | / | -st | - | - | - | -st | -st | - | - | NA | NA | | | | | | | |
| 1015 | Boot socks(poultry) | - | - | +/- | - | - | - | +/- | - | - | +/-m ni/- | - | - | - | - | - | - | - | NA | NA | - | - | - | - | NA | NA | |
| 1016 | Boot socks(poultry) | - | + | +/- | - | - | - | +/- | - | - | +/-m ni/- | - | - | +/- | - | - | - | + | NA | PPNA | - | - | - | - | NA | NA | |
| 1017 | Boot socks(poultry) | + | + | - | / | / | - | - | / | / | - | - | + | + | +1col | +M | + | + | + | PD | PD | + | + | + | + | PD | PD |
| 1018 | Boot socks(poultry) | - | + | +/- | - | - | - | +/- | - | - | +/-m ni/- | - | - | +/- | - | -st | - | - | NA | PPNA | - | - | - | - | NA | NA | |
| 1019 | Boot socks(poultry) | + | + | + | +m | +M | + | + | +m | +M | +m | + | + | + | +1/2 | +1/2 | + | + | + | PA | PA | + | + | + | + | PA | PA |
| 1040 | Boot socks(poultry) | - | - | +/- | - | - | - | +/- | - | - | +/-m ni/ (<i>Citrobacter</i>) | - | - | - | - | - | - | - | NA | NA | | | | | | | |
| 1041 | Boot socks(poultry) | - | - | - | / | / | - | - | / | / | - | - | - | - | - | -st | - | - | NA | NA | | | | | | | |

* Analyses performed according to the COFRAC accreditation

| FAECES SAMPLES - Type a (Extension study, 2012) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---------------------|--------------------------|-----------------------------|---------------|----------------|-------------------------|--------|---------|----------------|-------------------------|--|--------|----------------|-------------------------|---|----------------------------|-----------------------------------|-------------------------|----------------------------|------------|-----------------------------------|----------------|-------------------|--------------|-------------------------|-----------------------------------|------------|---------------|------|----|--|
| N° Sample | Product | Global result Rapid Spin | Global result NA Extraction | ISO 6579 /A1* | | | | U47-100 | | | | | | MicroSEQ Salmonella spp | | | | | | | | | | | | BPW storage for 72 h at 5°C ± 3°C | | | | | |
| | | | | MSRV | Streaking onto | | Result | MSRV | Streaking onto | | MKTn broth | Result | PCR Rapid Spin | PCR NA Extraction | TT Broth+I ₂ KI +Brilliant Green (16 h at 37°C)+ BPW (4 h at 37°C) | | | | | | BPW storage for 72 h at 5°C ± 3°C | | | | | | | | | | |
| | | XLD | IRIS Salmonella or ASAP | | XLD | IRIS Salmonella or ASAP | | | XLD | IRIS Salmonella or ASAP | | | | | XLD | IRIS | Result (Latex test and ISO tests) | Final result Rapid Spin | Final result NA Extraction | Agreement | | PCR Rapid Spin | PCR NA Extraction | Confirmation | Final result Rapid Spin | Final result NA Extraction | Agreement | | | | |
| | | / | / | | - | - | | | XLD | / | | | | | / | / | +M ni/+ | +M ni/- | +M ni/- | Rapid Spin | NA Extraction | | | | | | Rapid Spin | NA Extraction | | | |
| 6543 | Boot socks(piggery) | + | | | + | + | + | | + | + | + | + | + | / | +M | +1/2 | + | + | | PA | / | + | | + | + | + | PA | | | | |
| 6544 | Boot socks(piggery) | + | | | + | + | + | | + | + | + | + | + | / | +M | +M | + | + | | PA | / | + | | + | + | + | PA | | | | |
| 220 | Pork faeces | - | - | +/- | - | - | - | +/- | - | - | +/-ni/- | - | - | - | - | - | - | - | - | NA | NA | - | - | - | - | - | NA | NA | | | |
| 226 | Boot socks(piggery) | - | - | - | / | / | - | - | / | / | - | - | - | - | - | - | - | - | - | NA | NA | | | | | | | | | | |
| 254 | Pork faeces | + | + | - | / | / | - | - | / | / | - | - | - | + | + | +M | +M | + | + | + | PD | PD | + | + | + | + | + | PD | PD | | |
| 639 | Pork faeces | + | + | + | + | +p | +p | + | + | +p | +p | - | + | + | + | +M | +M | + | + | + | PA | PA | + | + | + | + | + | PA | PA | | |
| 640 | Pork faeces | + | + | + | + | +p | +p | + | + | +p | +p | +M | + | + | + | +M ni/+ | +M ni/- | + | + | + | PA | PA | + | + | + | + | + | PA | PA | | |
| 810 | Pork faeces | - | - | +/- | - | - | - | +/- | - | - | - | - | - | - | - | - | - | - | - | NA | NA | | | | | | | | | | |
| 813 | Boot socks(pork) | - | - | +/- | - | - | - | +/- | - | - | +/-ni/- | - | - | - | - | - | - | - | - | NA | NA | | | | | | | | | | |
| 1020 | Pork faeces | - | - | - | / | / | - | - | / | / | - | - | - | - | - | - | - | - | - | NA | NA | | | | - | - | NA | NA | | | |
| 1021 | Pork faeces | + | + | + | + | +p | +p | + | + | +p | +p | +m | + | + | + | - (+ MKTTn and MSRV) | - (+ MKTTn and MSRV) | + | + | + | PA | PA | + | + | + | + (MKTTn and MSRV) | + | + | PA | PA | |
| 1050 | Pork faeces | + | - | +/- | - | - | - | +/- | - | - | +/-ni/+ (<i>Citrobacter youngae</i>) | - | +/- | - | +/- | +1col ni/- (+MSRV at 72 h) | +1col ni/- (+MSRV at 72 h) | + | + | - | PD | NA | + | - | - | - | - | - | PPNA | NA | |
| 1051 | Pork faeces | + | + | + | + | +p | +p | + | + | +p | +p | +M | + | + | + | +M | +p | + | + | + | PA | PA | + | + | + | + | + | PA | PA | | |
| 1052 | Pork faeces | + | + | + | + | +p | +p | + | + | +p | +p | +M | + | + | + | +1/2ni/+ | +M | + | + | + | PA | PA | + | + | + | + | + | PA | PA | | |
| 1053 | Pork faeces | + | + | - | / | / | - | - | / | / | - | - | - | + | + | +1/2 | +m | + | + | + | PD | PD | + | + | + | + | + | PD | PD | | |
| 1054 | Pork faeces | - | - | - | / | / | - | - | / | / | - | - | - | - | - | +/-ni/- | - | - | - | NA | NA | | | | | | | | | | |
| 1056 | Pork faeces | - | - | +/- | - | - | - | +/- | - | - | +/-ni/- | - | - | - | - | - | - | - | - | NA | NA | | | | | | | | | | |
| 1059 | Boot socks(pork) | - | - | + | - | - | - | + | - | - | +m ni/- | - | - | - | - | - | - | - | - | NA | NA | | | | | | | | | | |
| 1061 | Boot socks(pork) | - | - | +/- | - | - | - | +/- | - | - | - | - | - | - | - | - | - | - | - | NA | NA | | | | | | | | | | |

* Analyses performed according to the COFRAC accreditation

| NON FAECES SAMPLES - Type b (Extension study, 2012) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--------------------------|-----------------------------|---------------|----------------|-------------------------|---------|------|----------------|-------------------------|------------|-------------------------|----------------|-------------------|---|---------|-----------------------------------|------------|---------------|----|-------------------------|----------------------------|-----------|-----------------------------------|----------------|-------------------|--------------|-------------------------|----------------------------|
| N° Sample | Product | Global result Rapid Spin | Global result NA Extraction | ISO 6579 /A1* | | | U47-100 | | | | | MicroSEQ Salmonella spp | | | | | | | | | | | | BPW storage for 72 h at 5°C ± 3°C | | | | | |
| | | | | MSRV | Streaking onto | | Result | MSRV | Streaking onto | | MKTn broth | Result | PCR Rapid Spin | PCR NA Extraction | TT Broth+I ₂ KI +Brilliant Green (16 h at 37°C)+ BPW (4 h at 37°C) | | | | | | Final result Rapid Spin | Final result NA Extraction | Agreement | | PCR Rapid Spin | PCR NA Extraction | Confirmation | Final result Rapid Spin | Final result NA Extraction |
| | | XLD | IRIS Salmonella or ASAP | | XLD | IRIS Salmonella or ASAP | | | XLD | IRIS Salmonella or ASAP | XLD | | | | XLD | IRIS | Result (Latex test and ISO tests) | Rapid Spin | NA Extraction | | | | | | | | | | |
| 230 | Poultry drinker water | - | - | - | / | / | - | - | / | / | - | - | - | - | - | - | - | - | - | - | NA | NA | - | - | - | - | - | - | - |
| 231 | Poultry drinker water | - | - | - | / | / | - | - | / | / | - | - | - | - | - | - | - | - | - | - | NA | NA | - | - | - | - | - | - | - |
| 236 | Sponge (Chicken cage) | - | - | - | / | / | - | - | / | / | - | - | - | - | - | - | - | - | - | - | NA | NA | - | - | - | - | - | - | - |
| 237 | Sponge (poultry feeding-trough) | - | - | - | / | / | - | - | / | / | - | - | - | - | - | - | - | - | - | - | NA | NA | - | - | - | - | - | - | - |
| 238 | Sponge (poultry feeding-trough) | - | - | - | / | / | - | - | / | / | - | - | - | - | - | - | - | - | - | - | NA | NA | - | - | - | - | - | - | - |
| 239 | Litter (poultry) | - | - | +/- | - | - | - | +/- | - | - | - | - | i/- | - | - | - | - | - | - | - | NA | NA | - | - | - | - | - | - | NA |
| 240 | Litter (poultry) | - | - | +/- | - | - | - | +/- | - | - | - | - | - | - | - | - | - | - | - | - | NA | NA | - | - | - | - | - | - | NA |
| 248 | Poultry drinker sponge | + | + | + | +p | +p | + | + | +p | +p | +M | + | + | + | +M | +M | +M | + | + | PA | PA | + | + | + | + | + | PA | PA | |
| 250 | Poultry litter | - | - | - | / | / | - | - | / | / | - | - | +/-/- | - | - | - | - | - | - | - | PPNA | NA | - | - | - | - | - | - | NA |
| 252 | Hens water | + | + | - | / | / | - | - | / | / | - | - | + | + | +M | +M | +M | + | + | PD | PD | + | + | + | + | + | PD | PD | |
| 952 | Piped eggs | - | - | + | - | - | - | + | - | - | - | i/- | - | - | - | - | - | - | - | - | NA | NA | - | - | - | - | - | - | |
| 1022 | Hens drinker water | + | + | + | +p | +p | + | + | +p | +p | +M | + | - | - | +/- ni/- | - | - | - | - | ND | ND | - | - | - | - | - | - | ND | ND |
| 1023 | Sponge (Hen-house door) | + | + | + | +p | +p | + | + | +p | +p | +M | + | + | + | +p | +p | + | + | + | PA | PA | + | + | + | + | + | PA | PA | |
| 1062 | Drinking water(poultry) | - | - | - | / | / | - | - | / | / | - | - | - | - | - | - | - | - | - | - | NA | NA | - | - | - | - | - | - | |
| 6539 | Drinking water(pigs) | - | - | - | / | / | - | - | / | / | +/- | - | - | / | - | - | - | - | - | - | NA | / | - | - | - | - | - | - | NA |
| 6541 | Pigs litter | + | - | + | + | + | + | + | + | + | +M | + | + | + | +M | +M | +M | + | + | PA | / | + | + | + | + | PA | PA | | |
| 218 | Piggery water | - | - | - | / | / | - | - | / | / | -st | - | - | - | -st | -st | -st | - | - | - | NA | NA | - | - | - | - | - | - | NA |
| 219 | Water (pork) | - | - | + | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | NA | NA | - | - | - | - | - | - | |
| 221 | Pork drinker | + | + | +/- | +p | +p | + | +/- | +p | +p | +M | + | + | + | +p | +p | +p | + | + | PA | PA | + | + | + | + | + | PA | PA | |
| 222 | Pork drinker | + | + | + | +p | +p | + | + | +p | +p | +M | + | + | + | +p | +p | +p | + | + | PA | PA | + | + | + | + | + | PA | PA | |
| 223 | Pork truck sponge | - | - | - | / | / | - | - | / | / | - | - | - | - | - | - | - | - | - | - | NA | NA | - | - | - | - | - | - | |
| 224 | Piggery door sponge | - | - | +/- | - | - | - | +/- | - | - | +/-ni/- | - | - | - | - | - | - | - | - | NA | NA | - | - | - | - | - | - | NA | |
| 225 | Piggery door sponge | - | - | +/- | - | - | - | +/- | - | - | - | - | - | - | - | - | - | - | - | NA | NA | - | - | - | - | - | - | NA | |
| 227 | Boot socks (pigs truck)) | + | + | + | +p | +p | + | + | +p | +p | +M | + | + | + | +p | +p | +p | + | + | PA | PA | + | + | + | + | + | PA | PA | |
| 228 | Boot socks (pigs) | + | + | + | +p | +p | + | + | +p | +p | +M | + | + | + | +p | +p | +p | + | + | PA | PA | + | + | + | + | + | PA | PA | |
| 229 | Boot socks (pigs) | + | + | + | +p | +p | + | + | +p | +p | +M | + | + | + | +p | +p | +p | + | + | PA | PA | + | + | + | + | + | PA | PA | |
| 253 | Tureen pigs water | - | - | - | / | / | - | - | / | / | - | - | - | - | -st | -st | -st | - | - | NA | NA | - | - | - | - | - | - | | |
| 257 | Sponge (pork) | - | - | - | / | / | - | - | / | / | - | - | - | - | - | - | - | - | - | NA | NA | - | - | - | - | - | - | | |
| 258 | Sponge (pork wall) | + | + | + | +p | +p | + | + | +p | +p | +M | + | + | + | +M | +M | +M | + | + | PA | PA | + | + | + | + | + | PA | PA | |
| 641 | Sponge after disinfection(pork) | - | - | +/- | - | - | - | +/- | - | - | +ni/- | - | - | - | - | - | - | - | - | NA | NA | - | - | - | - | - | - | NA | |
| 642 | Sponge after cleaning(pork) | - | - | - | / | / | - | - | / | / | - | - | - | - | - | - | - | - | - | NA | NA | - | - | - | - | - | - | | |
| 643 | Sponge after cleaning(pork) | + | + | +/- | +p | +p | + | +/- | +p | +p | +M | + | + | + | +M | +m ni/- | +m ni/- | + | + | PA | PA | + | + | + | + | + | PA | PA | |
| 644 | Wall sponge after disinfection (pork) | - | - | +/- | - | - | - | +/- | - | - | - | - | - | - | - | - | - | - | - | NA | NA | - | - | - | - | - | - | NA | |
| 645 | Wall sponge after disinfection (pork) | - | - | +/- | - | - | - | +/- | - | - | - | - | - | - | - | - | - | - | - | NA | NA | - | - | - | - | - | - | NA | |
| 646 | Floor sponge after disinfection (pork) | - | - | +/- | - | - | - | +/- | - | - | +ni/- | - | - | - | +m ni/- | - | - | - | - | NA | NA | - | - | - | - | - | - | NA | |
| 647 | Floor sponge before disinfection (pork) | -</td | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| NON FAECES SAMPLES - Type b (Extension study, 2012) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--------------------------|-----------------------------|---------------|----------------|-------------------------|---------|------|----------------|-------------------------|------------|-------------------------|----------------|-------------------|---|------|-----------------------------------|------------|---------------|----|----------------------------|-----------|---|----------------|-------------------|-----------------------------------|----------------------------|-----------|--|--|--|
| N° Sample | Product | Global result Rapid Spin | Global result NA Extraction | ISO 6579 /A1♦ | | | U47-100 | | | | | MicroSEQ Salmonella spp | | | | | | | | | | | | | | BPW storage for 72 h at 5°C ± 3°C | | | | | |
| | | | | MSRV | Streaking onto | | Result | MSRV | Streaking onto | | MKTn broth | Result | PCR Rapid Spin | PCR NA Extraction | TT Broth+I ₂ KI +Brilliant Green (16 h at 37°C)+ BPW (4 h at 37°C) | | | | | | Final result NA Extraction | Agreement | | PCR Rapid Spin | PCR NA Extraction | Confirmation | Final result NA Extraction | Agreement | | | |
| | | XLD | IRIS Salmonella or ASAP | | XLD | IRIS Salmonella or ASAP | | | XLD | IRIS Salmonella or ASAP | | | | | XLD | IRIS | Result (Latex test and ISO tests) | Rapid Spin | NA Extraction | | | | | | | | | | | | |
| | | - | - | | / | / | | | - | / | | | | | - | -st | -st | - | - | - | NA | NA | | | | | | | | | |
| 649 | Floor sponge after disinfection (pork) | - | - | - | / | / | - | - | / | / | - | - | - | - | -st | -st | - | - | - | NA | NA | | | | | | | | | | |
| 808 | Floor sponge after disinfection (pork) | - | - | - | / | / | - | - | / | / | - | - | - | - | -st | -st | - | - | - | NA | NA | | | | | | | | | | |
| 809 | Pork drinker water | - | - | - | / | / | - | - | / | / | - | - | - | - | i/- | -st | -st | - | - | NA | NA | | | | | | | | | | |
| 811 | Pork litter | - | - | - | / | / | - | - | / | / | - | - | - | - | -st | -st | - | - | - | NA | NA | | | | | | | | | | |
| 812 | Sponge (pork feeding-trough) | - | - | - | / | / | - | - | / | / | - | - | - | - | -st | -st | - | - | - | NA | NA | | | | | | | | | | |
| 1025 | Sponge (Door-pork) | + | + | + | +p | +p | + | + | +p | +p | +M | + | + | + | +p | +p | + | + | PA | PA | + | + | + | + | PA | PA | | | | | |

Relative accuracy: raw data - Extension Meat Product Sample (2013)

| MEAT PRODUCTS (Extension study, 2013) | | | | | | | | | | | | | | | | | | | | Type | | | |
|---------------------------------------|-----------------------------|-------------------------|----------------------------|---------|---|---------|--------------------------------|---------------------|----------------|-------|------|-------|-----|--------------|-----------------------------|-----------------|-------|---------|-------|------|--------------|------------------------------|---|
| N° Sample | French name product | English name product | ISO 6579 Reference method* | | | | MicroSEQ Salmonella spp method | | | | | | | | | | | | | Type | | | |
| | | | RVS | | MKTn | | Result | PCR results (Ct) | RVS 6 h 41.5°C | | | | | Final result | Agreement Ref/Alt 6 h | RVS 24 h 41.5°C | | | | | Final result | Agreement Ref/Alt 24 h | |
| | | | XLD | ASAP | XLD | ASAP | | | XLD | Latex | IRIS | Latex | API | | | XLD | Latex | IRIS | Latex | API | | | |
| 1355 | Filet de dinde | Raw Turkey fillet meat | - | - | - | - | - | - | - | / | - | / | / | - | NA | - | / | - | / | / | - | NA | a |
| 1356 | Viande blanche poulet | Raw chicken meat | - | - | +m ni/+ | +m | + | + (29.61) | - | / | +m | + | + | + | PA | - | / | +m ni/+ | + | + | + | PA | a |
| 1357 | Filet mignon de porc | Raw pork meat | +1/2 | +m | +M | +M | + | + (25.74) | +1/2 | + | +1/2 | + | + | + | PA | +1/2 | + | +1/2 | + | + | + | PA | a |
| 1358 | Sauté de porc | Raw pork meat | - | - | - | - | - | - | - | / | - | / | / | - | NA | - | / | - | / | / | - | NA | a |
| 1359 | Escalope de poulet | Raw chicken meat | +M | +M | +M | +M | + | + (18.41) | +M | + | +p | + | + | + | PA | +M | + | +M | + | + | + | PA | a |
| 1360 | Maigre d'échine de porc | Raw pork meat | - | - | - | - | - | - | - | / | - | / | / | - | NA | - | / | - | / | / | - | NA | a |
| 1361 | Escalope de jambon de porc | Raw pork meat | +M | +M | +M | +p | + | + (18.64) | +M | + | +p | + | + | + | PA | +M | + | +M | + | + | + | PA | a |
| 1362 | Viande de jambon de porc | Raw pork meat | +m | +m | +M | +1/2 | + | + (26.19) | - | / | +1/2 | + | + | + | PA | +m | + | +1/2 | + | + | + | PA | a |
| 1363 | Viande de poulet broyée | Raw ground chicken meat | 1+ | +m ni/+ | +M | +m ni/+ | + | + (25.50) | +n i(1)/+ | + | +m | + | + | + | PA | 1+ | + | +m | + | + | + | PA | a |
| 1364 | Cuisse de dinde | Turkey leg | - | - | - | - | - | - | - | / | - | / | / | - | NA | - | / | - | / | / | - | NA | a |
| 2111 | Viande d'agneau | Raw lamb meat | +1/2 | +M | +M | +P | + | +(27.54) | +1/2 | + | +M | + | + | + | PA | +1/2 | + | +M | + | + | + | PA | a |
| 2115 | Faux filet de bœuf | Raw beef meat | +M | +P | +M | +P | + | +(24.06) | +M | + | +P | + | + | + | PA | +M | + | +P | + | + | + | PA | a |
| 2116 | Entrecôte de bœuf | Raw beef meat | +M | +M | +M | +P | + | +(21.47) | +M | + | +P | + | + | + | PA | +M | + | +M | + | + | + | PA | a |
| 2117 | Steak de boeuf | Raw beef meat | +M | +P | +M | +P | + | +(24.35) | +M | + | +P | + | + | + | PA | +M | + | +P | + | + | + | PA | a |
| 2121 | Steak de boeuf | Raw beef meat | d ni/+ | +1/2 | - | +1/2 | + | + (25.20) | - | / | +M | + | + | + | PA | d ni/+ | + | +1/2 | + | + | + | PA | a |
| 2122 | Steak de boeuf | Raw beef meat | - | - | - | d ni/- | - | - | - | / | - | / | / | - | NA | - | / | - | / | / | - | NA | a |
| 2123 | Steak de boeuf | Raw beef meat | +m | +M | +m | +1/2 | + | + (24.02) | - | / | +M | + | + | + | PA | +m | + | +M | + | + | + | PA | a |
| 2124 | Sauté de porc | Raw pork meat | +1/2 | +M | +M | +M | + | + (24.04) | +M | + | +M | + | + | + | PA | +1/2 | + | +M | + | + | + | PA | a |
| 2125 | Filet mignon de porc | Raw pork meat | - | - | d ni/- | - | - | - | - | / | - | / | / | - | NA | - | / | - | / | / | - | NA | a |
| 2386b | Saucisse perche | Dehydrated sausage | +P | +P | +P | +P | + | +(20.17) | +P | + | +P | + | + | + | PA | +P | + | +P | + | + | + | PA | b |
| 2387 | Saucisson sec | Dehydrated sausage | +P | +P | +P | +P | + | +(19.59) | +P | + | +P | + | + | + | PA | +P | + | +P | + | + | + | PA | b |
| 2388 | Saucisse sèche | Dehydrated sausage | +P | +P | +P | +P | + | +(17.34) | +P | + | +P | + | + | + | PA | +P | + | +P | + | + | + | PA | b |
| 2389 | Saucisson sec | Dehydrated sausage | +m | +M | +P | +P | + | +(20.46) | +M | + | +P | + | + | + | PA | +m | + | +M | + | + | + | PA | b |
| 2390 | Saucisse perche | Dehydrated sausage | +P | +P | +P | +P | + | +(18.30) | +P | + | +P | + | + | + | PA | +P | + | +P | + | + | + | PA | b |
| 2391 | Andouille de Vire | Chitterling | - | - | - | - | - | - | - | / | - | / | / | - | NA | - | / | - | / | / | - | NA | b |
| 2392 | Poitrine rôtie | Roasted breast | +P | +P | +P | +P | + | +(19.12) | +P | + | +P | + | + | + | PA | +P | + | +P | + | + | + | PA | b |
| 2393 | Jambon cuit | Ham | +P | +P | +P | +P | + | +(20.11) | +P | + | +P | + | + | + | PA | +P | + | +P | + | + | + | PA | b |
| 2394 | Pâté à l'ancienne | Pâté | - | - | - | - | - | - | - | / | - | / | / | - | NA | - | / | - | / | / | - | NA | b |
| 2395 | Saucisson cuit à l'ail | Garlic sausage | - | - | - | - | - | - | - | / | - | / | / | - | NA | - | / | - | / | / | - | NA | b |
| 2396 | Piemontaise au jambon | Deli salad | - | - | - | - | - | - | - | / | - | / | / | - | NA | - | / | - | / | / | - | NA | b |
| 2397 | Taboulé au poulet | Deli salad | - | - | d ni/+ (<i>Citrobacter freundii</i>) | - | - | - | - | / | - | / | / | - | NA | - | / | - | / | / | - | NA | c |
| 2398 | Galette jambon/emmental | Ready to reheat (meat) | +P | +P | +P | +P | + | +(18.44) | +P | + | +P | + | + | + | PA | +P | + | +P | + | + | + | PA | c |
| 2399 | Coquillettes jambon/fromage | Ready to reheat (meat) | +P | +P | +P | +P | + | +(17.42) | +P | + | +P | + | + | + | PA | +P | + | +P | + | + | + | PA | c |
| 2400 | Hachis Parmentier | Ready to reheat (meat) | +P | +P | +P | +P | + | +(17.42) | +P | + | +P | + | + | + | PA | +P | + | +P | + | + | + | PA | c |

* Analyses performed according to the COFRAC accreditation

| MEAT PRODUCTS (Extension study, 2013) | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|----------------------------------|---|----------------------------|------|------|------|--------|--------------------------------|----------------|-------|------|-------|-----|--------------|-----------------------|----------------------|-------|------|-------|------|----|---|
| N° Sample | French name product | English name product | ISO 6579 Reference method* | | | | | MicroSEQ Salmonella spp method | | | | | | | | | | | | Type | | |
| | | | RVS | | MKTn | | Result | PCR results (Ct) | RVS 6 h 41.5°C | | | | | Final result | Agreement Ref/Alt 6 h | BPW for 16 h at 37°C | | | | | | |
| | | | XLD | ASAP | XLD | ASAP | | | XLD | Latex | IRIS | Latex | API | | | XLD | Latex | IRIS | Latex | API | | |
| 2401 | Lasagnes bolognaises | Ready to reheat (meat) | +P | +P | +P | +P | + | +(16.57) | +P | + | +P | + | + | + | PA | +P | + | +P | + | + | PA | c |
| 2402 | Blanquette de veau et riz | Ready to reheat (meat) | +P | +P | +P | +P | + | +(16.30) | +P | + | +P | + | + | + | PA | +P | + | +P | + | + | PA | c |
| 2403 | Lasagnes bolognaises | Ready to reheat (meat) | +P | +P | +P | +P | + | +(18.21) | +M | + | +P | + | + | + | PA | +P | + | +P | + | + | PA | c |
| 2404 | Parmentier de canard | Ready to reheat (meat) | +P | +P | +P | +P | + | +(13.43) | +P | + | +P | + | + | + | PA | +P | + | +P | + | + | PA | c |
| 2405 | Bœuf bourguignon et tagliatelles | Ready to reheat (meat) | +P | +P | +P | +P | + | +(14.22) | +P | + | +P | + | + | + | PA | +P | + | +P | + | + | PA | c |
| 2461 | Haché de bœuf | Ground beef | - | - | - | - | - | - | / | - | / | / | / | - | NA | - | / | - | / | / | NA | c |
| 2462 | Escalope de poulet | Raw chicken meat | - | - | - | - | - | - | - | / | - | / | / | - | NA | - | / | - | / | / | NA | a |
| 2463 | Escalope de dinde | raw turkey meat | - | - | - | - | - | - | - | / | - | / | / | - | NA | - | / | - | / | / | NA | a |
| 2464 | Escalope de dinde | Raw turkey meat | +m | +1/2 | +m | +p | + | -(36.11) | - | / | +m | + | + | - | ND | +m | + | +1/2 | + | + | ND | b |
| 2465 | Chair à saucisse | Sausage meat | - | - | - | - | - | - | - | / | - | / | / | - | NA | - | / | st | / | / | NA | c |
| 2466 | Tagine de bœuf | Ready to reheat (beef tagine) | st | st | st | st | - | - | st | / | st | / | / | - | NA | st | / | st | / | / | NA | c |
| 2467 | Escalope de dinde milanaise | Ready to reheat (turkey meat) | st | st | st | st | - | - | st | / | st | / | / | - | NA | st | / | - | / | / | NA | c |
| 2468 | Hachis parmentier | Ready to reheat (potatoes purée with meat) | st | st | st | st | - | - | st | / | st | / | / | - | NA | st | / | st | / | / | NA | c |
| 2469 | Boeuf Bourguignon | Ready to reheat (beef) | st | st | st | st | - | - | st | / | st | / | / | - | NA | st | / | st | / | / | NA | c |
| 2470 | Blanquette de veau | Ready to reheat (veal) | st | st | st | st | - | - | st | / | st | / | / | - | NA | st | / | st | / | / | NA | c |
| 2471 | Lasagnes bolognaises | Ready to reheat (beef meat with pasta) | st | st | st | st | - | - | st | / | st | / | / | - | NA | st | / | st | / | / | NA | c |
| 2472 | Poêlée à la Landaise | Ready to reheat (vegetables and poultry meat) | st | st | st | st | - | - | st | / | st | / | / | - | NA | st | / | st | / | / | NA | c |
| 2473 | Poulet à la moutarde | Ready to reheat (chicken with mustard) | st | st | st | st | - | - | st | / | st | / | / | - | NA | st | / | st | / | / | NA | c |
| 2474 | Petit salé | Ready to reheat (delicatessen) | st | st | st | st | - | - | st | / | st | / | / | - | NA | st | / | st | / | / | NA | b |
| 2475 | Macaronis au bœuf | Ready to reheat (beef with pasta) | st | st | st | st | - | - | st | / | st | / | / | - | NA | st | / | st | / | / | NA | c |
| 2476 | Rosette | Dehydrated sausage | - | - | - | - | - | - | - | / | st | / | / | - | NA | - | / | - | / | / | NA | b |
| 2477 | Jambon cuit | Ham | st | st | st | st | - | - | st | / | st | / | / | - | NA | st | / | st | / | / | NA | b |
| 2478 | Pâté de campagne | Pâté | st | st | - | st | - | - | - | / | - | / | / | - | NA | st | / | st | / | / | NA | b |
| 2479 | Saucisson sec | Dehydrated sausage | +M | +p | +p | +p | + | +(24.66) | +m | + | +m | + | + | + | PA | +M | | +p | + | + | PA | b |
| 2480 | Chorizo | Chorizo | - | - | st | st | - | - | - | / | st | / | / | - | NA | - | / | - | / | / | NA | b |
| 2481 | Saucisson sec | Dehydrated sausage | st | st | st | st | - | - | st | / | st | / | / | - | NA | st | / | st | / | / | NA | b |
| 2482 | Saucisse sèche | Dehydrated sausage | - | - | - | - | - | - | - | / | - | / | / | - | NA | - | / | - | / | / | NA | b |
| 2844 | Quiche à la viande | Ready to reheat (pastry and meat) | st | st | st | st | - | - | st | / | st | / | / | - | NA | st | / | - | / | / | NA | c |
| 6973 (2018) | Jambon cru | Raw ham | - | - | - | - | - | - | - | / | - | / | / | - | NA | - | / | - | / | / | NA | b |

| N° Sample | French name product | English name product | MEAT PRODUCTS (Extension study, 2013) | | | | | | | | | | | | | | | Type | | | |
|-----------|----------------------------------|-------------------------|---------------------------------------|---------|---------------------------------------|---------|--------------------------------|------------------|----------------|-------|---------|-------|-----------------------|----------------------------|-----------------|-------|---------|-------|------------------------|---------------------------|---|
| | | | ISO 6579 Reference method* | | | | MicroSEQ Salmonella spp method | | | | | | | | | | | | | | |
| | | | RVS | | MKTn | | Result | PCR results (ct) | RVS 6 h 41.5°C | | | | Final result 6 h-72 h | Agreement Ref/Alt 6 h-72 h | RVS 24 h 41.5°C | | | | Final result 24 h-72 h | Agreement Ref/Alt 24h-72h | |
| | | | | | | | | | XLD | Latex | IRIS | Latex | | | XLD | Latex | IRIS | Latex | | | |
| 1356 | Viande blanche poulet | Raw chicken meat | - | - | +m ni/+ | +m | + | + (29.39) | - | / | +m | + | + | PA | +m | + | +m ni/+ | + | + | PA | a |
| 1357 | Filet mignon de porc | Raw pork meat | +1/2 | +m | +M | +M | + | + (26.30) | +m | + | +1/2 | / | + | PA | +1/2 | + | +1/2 | / | + | PA | a |
| 1359 | Escalope de poulet | Raw chicken meat | +M | +M | +M | +M | + | + (18.14) | +1/2 | + | +M | / | + | PA | +M | + | +M | / | + | PA | a |
| 1361 | Escalope de jambon de porc | Raw pork meat | +M | +M | +M | +p | + | + (17.59) | +M | + | +p | / | + | PA | +M | + | +M | / | + | PA | a |
| 1362 | Viande de jambon de porc | Raw pork meat | +m | +m | +M | +1/2 | + | + (26.40) | 2+ | + | +m | / | + | PA | +m | + | +1/2 | / | + | PA | a |
| 1363 | Viande de poulet broyée | Raw ground chicken meat | 1+ | +m ni/+ | +M | +m ni/+ | + | + (23.47) | 1+ | + | +m | / | + | PA | 1+ ni/+ | + | +m | + | + | PA | a |
| 2111 | Viande d'agneau | Raw lamb meat | +1/2 | +M | +M | +P | + | + (27.73) | +1/2 | + | +M | / | + | PA | +M | + | +P | / | + | PA | a |
| 2115 | Faux filet de bœuf | Raw beef meat | +M | +P | +M | +P | + | + (23.52) | +M | + | +P | / | + | PA | +P | + | +P | / | + | PA | a |
| 2116 | Entrecôte de bœuf | Raw beef meat | +M | +M | +M | +P | + | + (19.82) | +M | + | +P | / | + | PA | +P | + | +P | / | + | PA | a |
| 2117 | Steack de bœuf | Raw beef meat | +M | +P | +M | +P | + | + (23.21) | +M | + | +P | / | + | PA | +M | + | +P | / | + | PA | a |
| 2121 | Steack de bœuf | Raw beef meat | d ni/+ | +1/2 | - | +1/2 | + | + (25.95) | - | / | +M | + | + | PA | dm ni/+ | + | +M | + | + | PA | a |
| 2122 | Steack de bœuf | Raw beef meat | - | - | - | d ni/- | - | - | - | / | - | / | - | NA | - | / | - | / | - | NA | a |
| 2123 | Steack de bœuf | Raw beef meat | +m | +M | +m | +1/2 | + | + (24.36) | 1d(1) ni/+ | / | +M | + | + | PA | dm | + | +M | / | + | PA | a |
| 2124 | Sauté de porc | Raw pork meat | +1/2 | +M | +M | +M | + | + (23.53) | +1/2 | + | +M | / | + | PA | +M | + | +P | / | + | PA | a |
| 2125 | Filet mignon de porc | Raw pork meat | - | - | d ni/- | - | - | - | - | / | - | / | - | NA | - | / | - | / | - | NA | a |
| 2386b | Saucisse perche | Dehydrated sausage | +P | +P | +P | +P | + | + (19.55) | +P | + | +M | / | + | PA | +P | + | +M | / | + | PA | a |
| 2387 | Saucisson sec | Dehydrated sausage | +P | +P | +P | +P | + | + (18.82) | +P | + | +P | / | + | PA | +P | + | +P | / | + | PA | a |
| 2388 | Saucisse sèche | Dehydrated sausage | +P | +P | +P | +P | + | + (17.01) | +P | + | +M | / | + | PA | +P | + | +M | / | + | PA | b |
| 2389 | Saucisson sec | Dehydrated sausage | +m | +M | +P | +P | + | + (19.68) | +M | + | +M | / | + | PA | +M | + | +M | / | + | PA | b |
| 2390 | Saucisse perche | Dehydrated sausage | +P | +P | +P | +P | + | + (17.26) | +P | + | +M | / | + | PA | +P | + | +M | / | + | PA | b |
| 2392 | Poitrine rôtie | Roasted breast | +P | +P | +P | +P | + | + (18.58) | +P | + | +P | / | + | PA | +P | + | +P | / | + | PA | b |
| 2393 | Jambon cuit | Ham | +P | +P | +P | +P | + | + (18.74) | +P | + | +P | / | + | PA | +P | + | +P | / | + | PA | b |
| 2397 | Taboulé au poulet | Deli salad | - | - | d ni/+(<i>Citrobacter freundii</i>) | - | - | - | - | / | - | / | - | NA | - | / | - | / | - | NA | c |
| 2398 | Galette jambon/emmental | Ready to reheat (meat) | +P | +P | +P | +P | + | + (17.04) | +P | + | +M | / | + | PA | +P | + | +M | / | + | PA | c |
| 2399 | Coquillettes jambon/fromage | Ready to reheat (meat) | +P | +P | +P | +P | + | + (16.15) | +P | + | +P | / | + | PA | +P | + | +P | / | + | PA | c |
| 2400 | Hachis Parmentier | Ready to reheat (meat) | +P | +P | +P | +P | + | + (16.52) | +P | + | +P | / | + | PA | +P | + | +P | / | + | PA | c |
| 2401 | Lasagnes bolognaises | Ready to reheat (meat) | +P | +P | +P | +P | + | + (18.97) | +P | + | +P | / | + | PA | +P | + | +P | / | + | PA | c |
| 2402 | Blanquette de veau et riz | Ready to reheat (meat) | +P | +P | +P | +P | + | + (18.64) | +P | + | +P | / | + | PA | +P | + | +P | / | + | PA | c |
| 2403 | Lasagnes bolognaises | Ready to reheat (meat) | +P | +P | +P | +P | + | + (20.47) | +M | + | +P | / | + | PA | +P | + | +P | / | + | PA | c |
| 2404 | Parmentier de canard | Ready to reheat (meat) | +P | +P | +P | +P | + | + (16.80) | +P | + | +P | / | + | PA | +P | + | +P | / | + | PA | c |
| 2405 | Bœuf bourguignon et tagliatelles | Ready to reheat (meat) | +P | +P | +P | +P | + | i/(20.41)1/10 | +P | + | +P | / | + | PA | +P | + | +P | / | + | PA | c |
| 2464 | Escalope de dinde | Raw turkey meat | +m | +1/2 | +m | +p | + | + (35.67) | - | / | +m ni/+ | + | + | PA | +m | + | +1/2 | + | + | PA | c |
| 2479 | Saucisson sec | Dehydrated sausage | +M | +p | +p | +p | + | + (22.70) | +M | + | +M | + | + | PA | +M | + | +p | + | + | PA | b |

* Analyses performed according to the COFRAC accreditation

Appendix 7 – Relative level of detection (RLOD): raw data

Matrix : RTE (Macédoine)
Strain : Salmonella Mbandaka Ad914

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

Renewal study (2018)

| N° sample | Level | Inoculation level (cfu/sample) | ISO 6579* | | | | | | MicroSEQ Salmonella Prep SEQ Rapid Spin extraction protocol | | | | | |
|-----------|-------|--------------------------------|-----------|------|------------|------|--------------|-------------------------------|---|--------------|-----------------------|------------------------|-------------------------|-------------------------------|
| | | | RVS broth | | MKTn broth | | Final Result | Number positive samples/Total | PCR result | Confirmation | | | Final result Individual | Number positive samples/Total |
| | | | XLD | ASAP | XLD | ASAP | | | | XLD | Brilliance Salmonella | Latex and Confirmation | | |
| 6438 | 0 | 0 | st | st | st | st | - | 0/5 | - | st | st | / | - | 0/5 |
| 6439 | | | st | st | st | st | - | | - | st | st | / | - | |
| 6440 | | | st | st | st | st | - | | - | st | st | / | - | |
| 6441 | | | st | st | st | st | - | | - | st | st | / | - | |
| 6442 | | | - | - | - | - | - | | - | - | - | / | - | |
| 6443 | 1 | 0,6 | st | st | st | st | - | 8/20 | - | st | st | / | - | 8/20 |
| 6444 | | | +p | +p | +p | +p | + | | +(15,05) | +p | +p | + | + | |
| 6445 | | | - | - | - | - | - | | - | - | - | / | - | |
| 6446 | | | +p | +p | +p | +p | + | | +(14,24) | +p | +p | + | + | |
| 6447 | | | +p | +p | +p | +p | + | | +(14,74) | +p | +p | + | + | |
| 6448 | | | +M | +p | +M | +p | + | | +(14,37) | +M | +p | + | + | |
| 6449 | | | st | st | st | st | - | | - | st | st | / | - | |
| 6450 | | | st | st | st | st | - | | - | st | st | / | - | |
| 6451 | | | - | - | - | - | - | | - | - | - | / | - | |
| 6452 | | | st | st | st | st | - | | - | st | st | / | - | |
| 6453 | | | st | st | st | st | - | | - | st | st | / | - | |
| 6454 | | | st | st | st | st | - | | - | st | st | / | - | |
| 6455 | | | +M | +p | +p | +p | + | | +(14,25) | +M | +p | + | + | |
| 6456 | | | - | - | - | - | - | | +(33,25)/+(32,50)/+(33,25) | - | - | / | - | |
| 6457 | | | +p | +p | +M | +M | + | | +(14,78) | +p | +p | + | + | |
| 6458 | | | +p | +p | +p | +p | + | | +(20,03) | +p | +p | + | + | |
| 6459 | | | st | st | st | st | - | | - | st | st | / | - | |
| 6460 | | | st | st | st | st | - | | - | st | st | / | - | |
| 6461 | | | st | st | st | st | - | | - | st | st | / | - | |
| 6462 | | | +p | +p | +p | +p | + | | +(14,88) | +p | +p | + | + | |
| 6463 | 2 | 1,7 | +p | +p | +p | +p | + | 4/5 | +(14,49) | +p | +p | + | + | 4/5 |
| 6464 | | | +p | +p | +p | +p | + | | +(14,08) | +p | +p | + | + | |
| 6465 | | | +M | +p | +p | +p | + | | +(14,78) | +M | +p | + | + | |
| 6466 | | | +p | +p | +p | +p | + | | +(15,02) | +p | +p | + | + | |
| 6467 | | | - | - | - | - | - | | - | - | - | / | - | |

* Analyses performed according to the COFRAC accreditation

ADRIA Développement

Summary report (Version 0)

MicroSEQ® Salmonella spp method

Fresh ground beef

Salmonella Infantis 128

Aerobic mesophilic flora: 5000 cfu/g

+/-: doubtful colonies

Initial Validation (2010)

| Sample N° | Level | Inoculation level (CFU/25g) | ISO 6579 method♦ | | | | | MicroSEQ Salmonella method | | | | |
|-----------|-------|-----------------------------|------------------|----------------------|------------|----------------------|--------|----------------------------|---|---|--------------|------------------------|
| | | | RVS broth | | MKTn broth | | Result | Positive Results/Total | Prep SEQ Rapid Spin extraction protocol | | | |
| | | | XLD | CHROMagar Salmonella | XLD | CHROMagar Salmonella | | | PCR result | Confirmation (Reference method or alternative method) | Final result | Positive Results/Total |
| 1150 | 0 | 0,0 | - | - | - | - | - | 0/6 | - | - | - | 0/6 |
| 1151 | | | - | - | - | - | - | | - | - | - | |
| 1152 | | | - | - | - | - | - | | - | - | - | |
| 1153 | | | - | - | - | - | - | | - | - | - | |
| 1154 | | | - | - | - | - | - | | - | - | - | |
| 1155 | | | - | - | - | - | - | | - | - | - | |
| 1162 | | | - | - | - | - | - | | - | - | - | |
| 1163 | 1 | 0,3 | - | - | - | - | - | 1/6 | - | - | - | 1/6 |
| 1164 | | | - | - | - | +/- | - | | - | - | - | |
| 1165 | | | - | - | - | - | - | | - | - | - | |
| 1166 | | | + | + | + | - | + | | + | + | + | |
| 1167 | | | - | - | - | - | - | | - | - | - | |
| 1168 | 2 | 0,5 | + | + | + | + | + | 5/6 | + | + | + | 5/6 |
| 1169 | | | + | + | + | - | + | | + | + | + | |
| 1170 | | | + | + | + | - | + | | + | + | + | |
| 1171 | | | + | + | + | + | + | | + | + | + | |
| 1172 | | | + | + | + | + | + | | + | + | + | |
| 1173 | | | - | - | - | - | - | | - | - | - | |

♦ Analysis performed according to the COFRAC accreditation

ADRIA Développement

Summary report (Version 0)

MicroSEQ® Salmonella spp method

Fresh ground beef*Salmonella* Infantis 128

Aerobic mesophilic flora: 5000 cfu/g

+/-:doubtful colonies

Initial Validation (2010)

| Sample N° | Level | Inoculation level (CFU/25g) | ISO 6579 method♦ | | | | | MicroSEQ Salmonella method Prep SEQ Rapid Spin extraction protocol | | | |
|-----------|-------|-----------------------------|------------------|-----------------------------|------------|-----------------------------|--------|---|------------|---|--------------|
| | | | RVS broth | | MKTn broth | | Result | Positive Results/ Total | PCR result | Confirmation (Reference method or alternative method) | Final result |
| | | | XLD | CHROMagar <i>Salmonella</i> | XLD | CHROMagar <i>Salmonella</i> | | | | | |
| 1488 | 3 | 1,7 | +(NC) | - | - | - | - | 5/6 | - | - | - |
| 1489 | | | + | - | + | + | + | | + | + | + |
| 1490 | | | + | - | + | + | + | | + | + | + |
| 1491 | | | + | - | + | + | + | | + | + | + |
| 1492 | | | + | - | + | + | + | | + | + | + |
| 1493 | | | + | + | + | + | + | | + | + | + |
| 1597 | 4 | 4,0 | + | + | + | + | + | 6/6 | + | + | + |
| 1598 | | | + | + | + | + | + | | + | + | + |
| 1599 | | | + | + | + | + | + | | + | + | + |
| 1600 | | | + | + | + | + | + | | + | + | + |
| 1601 | | | + | + | + | + | + | | + | + | + |
| 1602 | | | + | + | + | + | + | | + | + | + |

♦ Analysis performed according to the COFRAC accreditation

ADRIA Développement

Summary report (Version 0)

MicroSEQ® *Salmonella* spp method

Raw milk

Initial Validation (2010)

Salmonella Montevideo 510

Aerobic mesophilic flora: 1,9.10⁶/ml

| Sample N° | Level | Inoculation level (CFU/25g) | ISO 6579 method♦ | | | | | MicroSEQ Salmonella method Prep SEQ Rapid Spin extraction protocol | | | |
|-----------|-------|-----------------------------|------------------|----------------------|------------|----------------------|--------|--|------------|---|------------------------|
| | | | RVS broth | | MKTn broth | | Result | Positive Results/Total | PCR result | Confirmation (Reference method or alternative method) | Positive Results/Total |
| | | | XLD | CHROMagar salmonella | XLD | CHROMagar salmonella | | | | | |
| 1326 | 0 | 0 | - | - | - | - | - | 0/6 | - | - | - |
| 1327 | | | - | - | - | - | - | | - | - | - |
| 1328 | | | - | - | - | - | - | | - | - | - |
| 1329 | | | - | - | - | - | - | | - | - | - |
| 1330 | | | - | - | - | - | - | | - | - | - |
| 1331 | | | - | - | - | - | - | | - | - | - |
| 2166 | 1 | 0,5 | - | - | - | - | - | 3/6 | - | - | - |
| 2167 | | | - | - | - | - | - | | - | - | - |
| 2168 | | | + | + | + | + | + | | + | + | + |
| 2169 | | | + | +ni/+ | + | + | + | | + | + | + |
| 2170 | | | + | + | + | + | + | | + | + | + |
| 2171 | | | - | - | - | - | - | | - | - | - |
| 2538 | 2 | 0,9 | - | - | - | - | - | 5/6 | - | - | - |
| 2539 | | | - | + | + | + | + | | + | + | + |
| 2540 | | | + | + | + | + | + | | + | + | + |
| 2541 | | | + | + | + | + | + | | + | + | + |
| 2542 | | | - | + | + | + | + | | + | + | + |
| 2543 | | | + | + | + | + | + | | + | + | + |
| 2172 | 3 | 1,1 | - | - | + | + | + | 6/6 | + | + | + |
| 2173 | | | + | + | + | + | + | | + | + | + |
| 2174 | | | - | - | + | + | + | | + | + | + |
| 2175 | | | + | + | + | + | + | | + | + | + |
| 2176 | | | +ni/+ | + | + | + | + | | + | + | + |
| 2177 | | | + | + | + | + | + | | + | + | + |

♦ Analysis performed according to the COFRAC accreditation

ADRIA Développement

Summary report (Version 0)

MicroSEQ® Salmonella spp method

Initial Validation (2010)

Whole liquid egg product

Salmonella Enteritidis 657

Aerobic mesophilic flora: <200/g

| Sample N° | Level | Inoculation level (CFU/25g) | ISO 6579 method♦ | | | | | MicroSEQ Salmonella method Prep SEQ Rapid Spin extraction protocol | | | |
|-----------|-------|-----------------------------|------------------|----------------------|------------|----------------------|--------|--|------------|---|--------------|
| | | | RVS broth | | MKTn broth | | Result | Positive Results/Total | PCR result | Confirmation (Reference method or alternative method) | Final result |
| | | | XLD | CHROMagar Salmonella | XLD | CHROMagar Salmonella | | | | | |
| 2067 | 0 | 0 | - | - | - | - | - | 0/6 | - | - | - |
| 2068 | | | - | - | - | - | - | | - | - | - |
| 2069 | | | - | - | - | - | - | | - | - | - |
| 2070 | | | - | - | - | - | - | | - | - | - |
| 2071 | | | - | - | - | - | - | | - | - | - |
| 2072 | | | - | - | - | - | - | | - | - | - |
| 2073 | 1 | 1,0 | + | + | + | + | + | 3/6 | + | + | + |
| 2074 | | | + | + | + | + | + | | + | + | + |
| 2075 | | | - | - | - | - | - | | - | - | - |
| 2076 | | | + | + | + | + | + | | + | + | + |
| 2077 | | | - | - | - | - | - | | - | - | - |
| 2078 | | | - | - | - | - | - | | - | - | - |
| 2079 | 2 | 1,9 | + | + | + | + | + | 5/6 | + | + | + |
| 2080 | | | + | + | + | + | + | | + | + | + |
| 2081 | | | - | - | - | - | - | | - | - | - |
| 2082 | | | + | + | + | + | + | | + | + | + |
| 2083 | | | + | + | + | + | + | | + | + | + |
| 2084 | | | + | + | + | + | + | | + | + | + |
| 2085 | 3 | 3,8 | + | + | + | + | + | 6/6 | + | + | + |
| 2086 | | | + | + | + | + | + | | + | + | + |
| 2087 | | | + | + | + | + | + | | + | + | + |
| 2088 | | | + | + | + | + | + | | + | + | + |
| 2089 | | | + | + | + | + | + | | + | + | + |
| 2090 | | | + | + | + | + | + | | + | + | + |

♦ Analysis performed according to the COFRAC accreditation

ADRIA Développement

Summary report (Version 0)

MicroSEQ® Salmonella spp method

Mushrooms*Salmonella* Virchow F276

Aerobic mesophilic flora: 216000 cfu/g

Initial Validation (2010)

| Sample N° | Level | Inoculation level (CFU/25g) | ISO 6579 method♦ | | | | | MicroSEQ Salmonella method Prep SEQ Rapid Spin extraction protocol | | | | |
|-----------|-------|-----------------------------|-----------------------|----------------------|---------------------|----------------------|--------|--|------------|---|--------------|------------------------|
| | | | RVS broth | | MKTn broth | | Result | Positive Results/Total | PCR result | Confirmation (Reference method or alternative method) | Final result | Positive Results/Total |
| | | | XLD | CHROMagar Salmonella | XLD | CHROMagar Salmonella | | | | | | |
| 1248 | 0 | 0 | - | - | - | - | - | 0/6 | - | / | - | 0/6 |
| 1249 | | | - | - | - | - | - | | - | / | - | |
| 1250 | | | - | - | - | - | - | | - | / | - | |
| 1251 | | | - | - | - | - | - | | - | / | - | |
| 1252 | | | - | - | - | - | - | | - | / | - | |
| 1253 | | | - | - | - | - | - | | - | / | - | |
| 1254 | 0,3 | 0,3 | + | + | + | + | + | 1/6 | + | + | + | 1/6 |
| 1255 | | | - | - | - | +1col(ox+) | - | | - | - | - | |
| 1256 | | | - | - | - | - | - | | - | - | - | |
| 1257 | | | - | - | +3col (Citrobacter) | +1col(ox+) | - | | - | - | - | |
| 1258 | | | +/-1col (Citrobacter) | - | +(Citrobacter) | - | - | | - | - | - | |
| 1259 | | | - | - | - | - | - | | - | - | - | |
| 1260 | 0,6 | 0,6 | + | + | + | + | + | 5/6 | + | + | + | 5/6 |
| 1261 | | | + | + | + | + | + | | + | + | + | |
| 1262 | | | + | + | + | + | + | | + | + | + | |
| 1263 | | | + | + | + | + | + | | + | + | + | |
| 1264 | | | + | + | + | + | + | | + | + | + | |
| 1265 | | | - | - | - | - | - | | - | - | - | |
| 1266 | 1,1 | 1,1 | + | + | + | + | + | 6/6 | + | + | + | 6/6 |
| 1267 | | | + | + | + | + | + | | + | + | + | |
| 1268 | | | + | + | + | + | + | | + | + | + | |
| 1269 | | | + | + | + | + | + | | + | + | + | |
| 1270 | | | + | + | + | + | + | | + | + | + | |
| 1271 | | | + | + | + | + | + | | + | + | + | |

♦ Analysis performed according to the COFRAC accreditation

ADRIA Développement

Summary report (Version 0)

MicroSEQ® *Salmonella* spp method

Initial Validation (2010)

Dog biscuits

Salmonella Derby 630

Aerobic mesophilic flora: 48000000 CFU/g

| Sample N° | Level | Inoculation level (CFU/25g) | ISO 6579 method♦ | | | | | MicroSEQ Salmonella method | | | | |
|-----------|-------|-----------------------------|------------------|----------------------|------------|----------------------|--------|----------------------------|---|---|--------------|------------------------|
| | | | RVS broth | | MKTn broth | | Result | Positive Results/Total | Prep SEQ Rapid Spin extraction protocol | | | |
| | | | XLD | CHROMagar Salmonella | XLD | CHROMagar Salmonella | | | PCR result | Confirmation (Reference method or alternative method) | Final result | Positive Results/Total |
| 1455 | 0 | 0 | - | - | - | - | - | 0/6 | - | / | - | 0/6 |
| 1456 | | | - | - | - | - | - | | - | / | - | |
| 1457 | | | - | - | - | - | - | | - | / | - | |
| 1458 | | | - | - | - | - | - | | - | / | - | |
| 1459 | | | - | - | - | - | - | | - | / | - | |
| 1460 | | | - | - | - | - | - | | - | / | - | |
| 1461 | 1 | 0,6 | + | + | + | + | + | 3/6 | + | + | + | 3/6 |
| 1462 | | | - | - | - | - | - | | - | / | - | |
| 1463 | | | - | - | - | - | - | | - | / | - | |
| 1464 | | | + | + | + | + | + | | + | + | + | |
| 1465 | | | + | + | + | + | + | | + | + | + | |
| 1466 | | | - | - | - | - | - | | - | / | - | |
| 1467 | 2 | 1,2 | - | - | - | - | - | 2/6 | - | / | - | 2/6 |
| 1468 | | | - | - | - | - | - | | - | / | - | |
| 1469 | | | + | + | + | + | + | | + | + | + | |
| 1470 | | | - | - | - | + (OX+) | - | | - | / | - | |
| 1471 | | | + | + | + | + | + | | + | + | + | |
| 1472 | | | - | - | - | - | - | | - | / | - | |
| 1473 | 3 | 2,3 | + | + | + | + | + | 5/6 | + | + | + | 5/6 |
| 1474 | | | + | + | + | + | + | | + | + | + | |
| 1475 | | | + | + | + | + | + | | + | + | + | |
| 1476 | | | + | + | + | + | + | | + | + | + | |
| 1477 | | | - | - | - | - | - | | - | / | - | |
| 1478 | | | + | + | + | + | + | | + | + | + | |
| 1479 | 4 | 5,9 | + | + | + | + | + | 6/6 | + | + | + | 6/6 |
| 1480 | | | + | + | + | + | + | | + | + | + | |
| 1481 | | | + | + | + | + | + | | + | + | + | |
| 1482 | | | + | + | + | + | + | | + | + | + | |
| 1483 | | | + | + | - | + | + | | + | + | + | |
| 1484 | | | + | + | + | + | + | | + | + | + | |

♦ Analysis performed according to the COFRAC accreditation

ADRIA Développement

Summary report (Version 0)

MicroSEQ® Salmonella spp method

Fresh ground beef

Salmonella Infantis 128

Mesophilic aerobic flora: $3.7 \cdot 10^3$ cfu/g

| Sample N° | Level | Inoculation level (CFU/25g) | ISO 6579 reference method♦ | | | | | MicroSEQ Salmonella method-Prep SEQ NA extraction protocol | | | | | | | |
|-----------|-------|-----------------------------|----------------------------|----------------------|------------|----------------------|--------|--|-----------------|-------------|--------------|-------------|--------------|--------------|------------------------|
| | | | RVS broth | | MKTn broth | | Result | Positive Results/Total | PCR result (Ct) | RVS 6 h | | RVS 24 h | | Final result | Positive Results/Total |
| | | | XLD | CHROMagar Salmonella | XLD | CHROMagar Salmonella | | | | XLD (latex) | IRIS (latex) | XLD (latex) | IRIS (latex) | | |
| 2814 | 0 | 0,0 | - | - | - | - | - | 0/6 | - | - | - | - | - | 0/6 | |
| 2815 | | | - | - | - | - | - | | - | - | - | - | - | | |
| 2816 | | | - | - | - | - | - | | - | - | - | - | - | | |
| 2817 | | | - | - | - | - | - | | - | - | - | - | - | | |
| 2818 | | | - | - | - | - | - | | - | - | - | - | - | | |
| 2819 | | | - | - | - | - | - | | - | - | - | - | - | | |
| 2820 | 1 | 0,07 | - | - | - | - | - | 1/6 | - | - | - | - | - | 1/6 | |
| 2821 | | | - | - | - | - | - | | - | - | - | - | - | | |
| 2822 | | | - | - | - | - | - | | - | - | - | - | - | | |
| 2823 | | | - | - | - | - | - | | - | - | - | - | - | | |
| 2824 | | | +m ni/+ | +M | +1/2 | +1/2 | + | | + (28.20) | - | +m (+) | +m ni/+ (+) | +M (+) | + | |
| 2825 | | | - | - | - | - | - | | - | - | - | - | - | | |
| 2826 | 2 | 0,14 | - | - | - | - | - | 3/6 | - | - | - | - | - | 3/6 | |
| 2827 | | | - | - | - | - | - | | - | - | - | - | - | | |
| 2828 | | | +m | +M | +M | +M | + | | + (29.16) | - | +m (+) | +m (+) | +M (+) | + | |
| 2829 | | | +m | +M | +M | +M | + | | + (21.35) | +m (+) | +M (+) | +m (+) | +M (+) | + | |
| 2830 | | | - | - | - | - | - | | - | - | - | - | - | | |
| 2831 | | | +m | +M | +m | +M | + | | + (24.73) | - | +m (+) | +m (+) | +M (+) | + | |
| 2832 | 3 | 0,28 | - | - | - | - | - | 2/6 | - | - | - | - | - | 2/6 | |
| 2833 | | | - | - | - | - | - | | - | - | - | - | - | | |
| 2834 | | | +m | +M | +m | +m | + | | + (28.10) | +m (+) | +1/2 (+) | +m (+) | +M (+) | + | |
| 2835 | | | - | - | - | - | - | | - | - | - | - | - | | |
| 2836 | | | - | - | - | - | - | | - | - | - | - | - | | |
| 2837 | | | +m | +M | +m | +m | + | | + (30.13) | - | +m ni/+ (+) | +m (+) | +M (+) | + | |
| 2838 | 4 | 0,56 | +m | +M | +M | +M | + | 6/6 | + (25.14) | +m (+) | +M (+) | +m (+) | +M (+) | + | 6/6 |
| 2839 | | | +M | +1/2 | +M | +M | + | | + (23.59) | +m (+) | +M (+) | +M (+) | +1/2 (+) | + | |
| 2840 | | | +M | +M | +M | +M | + | | + (21.70) | +1/2 | +M (+) | +m (+) | +M (+) | + | |
| 2841 | | | +1/2 | +M | +m | +m | + | | + (26.33) | +m (+) | +m (+) | +1/2 (+) | +M (+) | + | |
| 2842 | | | +M | +M | +M | +M | + | | + (22.36) | +m (+) | +M (+) | +M (+) | +M (+) | + | |
| 2843 | | | +m | +m | +m | +m | + | | + (29.87) | - | +1col ni/+ | +m (+) | +m (+) | + | |

♦ Analyses performed according to the COFRAC accreditation

ADRIA Développement

Summary report (Version 0)

MicroSEQ® Salmonella spp method

Poultry faeces

Salmonella Agona Ad1306

Mesophilic aerobic flora: 2,8.10⁸/g**Extension study (2012)**

| N° Sample | Level | Inoculation level (CFU/25g) | ISO 6579 /A1♦ | | | U47-100 | | | | MicroSEQ Salmonella spp- Prep SEQ Rapid Spin extraction protocol | | | | MicroSEQ Salmonella spp- Prep SEQ NA extraction protocol | | | | | | | | | |
|-----------|-------|-----------------------------|---------------|----------------|------|---------|----------------|------|----------------|--|-------------------------|--------|----------------|--|--------------|----------|--------------|----------------|-----------|--------------|----------|--------------|----------------|
| | | | MSRV | Streaking onto | | Result | Positive/total | MSRV | Streaking onto | | MKTn broth | Result | Positive/total | PCR | Confirmation | | Final result | Positive/total | PCR | Confirmation | | Final result | Positive/total |
| | | | | XLD | ASAP | | | | XLD | ASAP | | | | | RVS/XLD | RVS/IRIS | | | | RVS/XLD | RVS/IRIS | | |
| 802 | 0 | / | - | / | / | - | 0/6 | - | / | / | - | - | 0/6 | - | - | - | - | 0/6 | - | - | - | - | 0/6 |
| 803 | | | +/- | - | - | - | | +/- | - | - | - | - | | - | - | - | - | | - | - | - | - | |
| 804 | | | +/- | - | - | - | | +/- | - | - | + (Citrobacter youngae) | - | | - | - | - | - | | - | - | - | - | |
| 805 | | | +/- | - | - | - | | +/- | - | - | - | - | | - | - | - | - | | - | - | - | - | |
| 806 | | | +/- | - | - | - | | +/- | - | - | - | - | | - | - | - | - | | - | - | - | - | |
| 807 | | | - | / | / | - | | - | / | / | - | - | | - | - | - | - | | - | - | - | - | |
| 894 | 1 | 0,9 | + | + | + | + | 4/6 | + | + | + | - | + | 4/6 | - | - | - | - | 3/6 | + (36,36) | - | - | - | 3/6 |
| 895 | | | + | + | + | + | | + | + | + | + | + | | - | - | - | - | | - | - | - | - | |
| 896 | | | - | / | / | - | | - | / | / | - | - | | + | + | + | + | | + | + | + | + | |
| 897 | | | + | + | + | + | | + | + | + | + | + | | + | + | + | + | | + | + | + | + | |
| 898 | | | - | / | / | - | | - | / | / | - | - | | + | + | + | + | | + | + | + | + | |
| 899 | | | + | + | + | + | | + | + | + | + | + | | - | - | - | - | | - | - | - | - | |
| 900 | 2 | 2,2 | + | + | + | + | 6/6 | + | + | + | + | + | 6/6 | + | + | + | + | 6/6 | + | + | + | + | 6/6 |
| 901 | | | + | + | + | + | | + | + | + | + | + | | + | + | + | + | | + | + | + | + | |
| 902 | | | + | + | + | + | | + | + | + | + | + | | + | + | + | + | | + | + | + | + | |
| 903 | | | + | + | + | + | | + | + | + | + | + | | + | + | + | + | | + | + | + | + | |
| 904 | | | + | + | + | + | | + | + | + | + | + | | + | + | + | + | | + | + | + | + | |
| 905 | | | + | + | + | + | | + | + | + | + | + | | + | + | + | + | | + | + | + | + | |

♦ Analysis performed according to the COFRAC accreditation

ADRIA Développement

Summary report (Version 0)

MicroSEQ® Salmonella spp method

Appendix 8 – Inclusivity and exclusivity: raw data

| INCLUSIVITY (Initial validation study, 2010) | | | | | | |
|---|--|-----------|---------------------------------------|-----------------------------|------------|--|
| | Strain | Reference | Origin | Inoculation level CFU/225ml | PCR result | |
| 1. | <i>Salmonella</i> Agona | A00V38 | Feedstuff | 5 | + | |
| 2. | <i>Salmonella</i> Anatum | 6140 | Beef Burgundy | 7 | + | |
| 3. | <i>Salmonella</i> arizonae SIIla 51 :24,223 :- | CIP 5523 | Turkey | 4 | + | |
| 4. | <i>Salmonella</i> diarizonae SIIlb 47 :IV :253 | Ad478 | Clams | 9 | + | |
| 5. | <i>Salmonella</i> diarizonae SIIlb 38 :IV :253 | Ad451 | Ewe milk | 1 | + | |
| 6. | <i>Salmonella</i> arizonae | 4851 | Turkey | 1 | + | |
| 7. | <i>Salmonella</i> diarizonae SIIlb 61:-:,1,5,7 | | Raw ewe milk | 7 | + | |
| 8. | <i>Salmonella</i> Blockley | Ad 923 | Chicken | 5 | + | |
| 9. | <i>Salmonella</i> Bovismorbificans | 728 | Agar | 14 | + | |
| 10. | <i>Salmonella</i> Braenderup | 178 | Food | 22 | + | |
| 11. | <i>Salmonella</i> Brandenburg | Ad 351 | Seafood | 20 | + | |
| 12. | <i>Salmonella</i> Bredeney | 396 | Ground beef | 17 | + | |
| 13. | <i>Salmonella</i> Cerro | Ad 689 | Dehydrated proteins | 2 | + | |
| 14. | <i>Salmonella</i> Cremieu | 230 | Hare | 3 | + | |
| 15. | <i>Salmonella</i> Derby | Ad 1093 | Frozen fish fillet | 4 | + | |
| 16. | <i>Salmonella</i> diarizonae 38:IV :253 | Ad 453 | Raw milk cheese | 2 | + | |
| 17. | <i>Salmonella</i> Dublin | Ad 528 | Pancake | 9 | + | |
| 18. | <i>Salmonella</i> Enteritidis | Ad 926 | Raw veal meat | 6 | + | |
| 19. | <i>Salmonella</i> Gallinarum | Ad 300 | Poultry slaughterhouse | 2 | + | |
| 20. | <i>Salmonella</i> Give | 436 | Ground beef | 7 | + | |
| 21. | <i>Salmonella</i> Hadar | 35 | Poultry | 19 | + | |
| 22. | <i>Salmonella</i> Havana | Ad 930 | Poultry | 18 | + | |
| 23. | <i>Salmonella</i> Heidelberg | A00E005 | Dairy industry environmental sample | 17 | + | |
| 24. | <i>Salmonella</i> houtenae 43:z4z32 | Ad 597 | Fish | 13 | + | |
| 25. | <i>Salmonella</i> Indiana | 2 | Fish flour | 9 | + | |
| 26. | <i>Salmonella</i> indica 1,26,14,25:a:enx | Ad 600 | Environment | 1 | + | |
| 27. | <i>Salmonella</i> Infantis | 12 | Ready to eat food | 1 | + | |
| 28. | <i>Salmonella</i> Kedougou | Ad 929 | Environmental sample (Slaughterhouse) | 3 | + | |
| 29. | <i>Salmonella</i> Kottbus | 1 | Environmental sample (slaughterhouse) | 11 | + | |
| 30. | <i>Salmonella</i> Lagos | 173 | Sausage | 13 | + | |
| 31. | <i>Salmonella</i> Landau | Ad 499 | / | 12 | + | |
| 32. | <i>Salmonella</i> Livingstone | E1 | Egg white powder | 11 | + | |
| 33. | <i>Salmonella</i> London | 326 | Ham | 5 | + | |
| 34. | <i>Salmonella</i> Manhattan | 900 | Dairy environmental sample | 9 | + | |
| 35. | <i>Salmonella</i> Mbandaka | Ad 914 | Mayonnaise | 9 | + | |
| 36. | <i>Salmonella</i> Meleagridis | 505 | Raw milk | 2 | + | |
| 37. | <i>Salmonella</i> Montevideo | Ad 912 | Raw milk | 20 | + | |
| 38. | <i>Salmonella</i> Napoli | Ad 928 | Bovine | 13 | + | |
| 39. | <i>Salmonella</i> Newport | 540 | Toulouse sausage | 11 | + | |
| 40. | <i>Salmonella</i> Panama | 195 | Ground beef | 14 | + | |
| 41. | <i>Salmonella</i> Paratyphi A | ATCC 9150 | / | 2 | + | |

| INCLUSIVITY (Initial validation study, 2010) | | | | | | |
|---|-------------------|-------------------|------------|-------------------------------------|-----------------------------|------------|
| | | Strain | Reference | Origin | Inoculation level CFU/225ml | PCR result |
| 42. | <i>Salmonella</i> | Paratyphi B | Ad 301 | Clinical | 3 | + |
| 43. | <i>Salmonella</i> | Paratyphi C | ATCC 13428 | / | 1 | + |
| 44. | <i>Salmonella</i> | Regent | 328 | Duck | 3 | + |
| 45. | <i>Salmonella</i> | Rissen | 39 | Poultry | 4 | + |
| 46. | <i>Salmonella</i> | Saintpaul | F31 | Pilchard fillet | 6 | + |
| 47. | <i>Salmonella</i> | salamae 42:b:enxz | Ad 593 | Cereals | 7 | + |
| 48. | <i>Salmonella</i> | Sentftenberg | Ad 355 | Seafood | 13 | + |
| 49. | <i>Salmonella</i> | Tennessee | A00E006 | Dairy industry environmental sample | 23 | + |
| 50. | <i>Salmonella</i> | Thompson | AER301 | Poultry | 17 | + |
| 51. | <i>Salmonella</i> | Typhi | Ad 302 | Clinical | 1 | + |
| 52. | <i>Salmonella</i> | Typhimurium | 305 | Paella | 10 | + |
| 53. | <i>Salmonella</i> | Urbana | Ad 501 | / | 6 | + |
| 54. | <i>Salmonella</i> | Virchow | F276 | Curry | 8 | + |

EXCLUSIVITY
(Initial validation study, 2010)

| | Strain | Origin | Inoculation level CFU/ml | PCR Result | |
|-----|---------------------------------|---------------------------|-----------------------------|---------------------------------------|---|
| 1. | <i>Citrobacter braakii</i> | Ad833 | Raw beef meat | $5.0 \cdot 10^5$ | - |
| 2. | <i>Citrobacter diversus</i> | adria 140 | Raw milk | $5.3 \cdot 10^5$ | - |
| 3. | <i>Citrobacter freundii</i> | adria 23 | Raw pork sausage | $6.9 \cdot 10^5$ | - |
| 4. | <i>Citrobacter freundii</i> | adria 175 | Raw duck meat | $7.1 \cdot 10^5$ | - |
| 5. | <i>Citrobacter koseri</i> | adria 71 | Frozen vegetables | $9.0 \cdot 10^5$ | - |
| 6. | <i>Cronobacter sakazakii</i> | adria 95 | Fermented milk | $4.1 \cdot 10^5$ | - |
| 7. | <i>Enterobacter agglomerans</i> | adria 11 | Cheese | $5.2 \cdot 10^5$ | - |
| 8. | <i>Enterobacter amnigenus</i> | A00C068 | Raw poultry meat | $4.6 \cdot 10^5$ | - |
| 9. | <i>Enterobacter cloacae</i> | adria 10 | Raw milk | $4.0 \cdot 10^5$ | - |
| 10. | <i>Enterobacter intermedius</i> | adria 60 | Bean | $1.3 \cdot 10^5$ | - |
| 11. | <i>Enterobacter kobei</i> | Ad 342 | Ham | $2.7 \cdot 10^5$ | - |
| 12. | <i>Erwinia carotovora</i> | CIP 8283 | Potatoes | $2.0 \cdot 10^3$ | - |
| 13. | <i>Escherichia coli</i> | adria 19 | Grated carrots | $3.1 \cdot 10^5$ | - |
| 14. | <i>Escherichia hermanii</i> | Ad 461 | Dessert | $2.8 \cdot 10^5$ | - |
| 15. | <i>Escherichia vulneris</i> | adria 127 | Raw milk | $9.8 \cdot 10^5$ | - |
| 16. | <i>Hafnia alvei</i> | adria 167 | Raw pork sausage | $9.2 \cdot 10^5$ | - |
| 17. | <i>Klebsiella oxytoca</i> | 57 | Food product | $3.2 \cdot 10^5$ | - |
| 18. | <i>Klebsiella pneumoniae</i> | 47 | Raw turkey meat | $3.9 \cdot 10^5$ | - |
| 19. | <i>Kluyvera spp</i> | adria 41 | Raw milk | $3.0 \cdot 10^5$ | - |
| 20. | <i>Morganella morganii</i> | CIP A236 | / | $6.5 \cdot 10^5$ | - |
| 21. | <i>Pantoea agglomerans</i> | adria 86 | Frozen vegetables | $7.7 \cdot 10^5$ | - |
| 22. | <i>Proteus mirabilis</i> | Ad639 | Mayonnaise | $7.3 \cdot 10^5$ | - |
| 23. | <i>Proteus vulgaris</i> | adria 43 | Sliced ham | $5.8 \cdot 10^4$ | - |
| 24. | <i>Providencia rettgeri</i> | adria 112 | White liquid egg | $3.7 \cdot 10^5$ | - |
| 25. | <i>Rhanella aquatilis</i> | adria 69 | Molluscs | $7.0 \cdot 10^4$ | - |
| 26. | <i>Serratia liquefaciens</i> | 26 | Egg product | $2.6 \cdot 10^5$ | - |
| 27. | <i>Serratia marcescens</i> | Ad447 | Raw milk | $6.8 \cdot 10^5$ | - |
| 28. | <i>Serratia proteamaculans</i> | A00C056 | Ham | $9.2 \cdot 10^4$ | - |
| 29. | <i>Shigella flexneri</i> | CIP 8248 | / | $3.2 \cdot 10^5$ | - |
| 30. | <i>Shigella sonnei</i> | CIP 8249T (ATCC 29930) | / | $3.7 \cdot 10^5$ | - |
| 31. | <i>Yersinia enterocolitica</i> | adria 32 | Bacon | $9.4 \cdot 10^4$ | - |
| 32. | <i>Salmonella bongori</i> | Ad599 | Turkey breeding | $3.2 \cdot 10^5$ | + |
| | | | | $4.8 \cdot 10^5$ | + |
| | | | | 6 (protocol for inclusivity testing) | - |
| 33. | <i>Salmonella bongori</i> | Ad598 | Turkey breeding | $2.9 \cdot 10^5$ | - |
| | | | | 10 (protocol for inclusivity testing) | - |

| INCLUSIVITY (Extension study, 2012) (PPS) | | | | | | | | | | | | |
|---|----------------------------------|----------|--|--------------------|---------------|--------------------|-----------|---|---------------------|--------------------|---|--|
| Strain | Reference | Origin | Inoculation level (cfu/225ml TT broth + I ₂ KI + Brilliant Green) | Alternative method | | | | | Reference method | | | |
| | | | | PCR | | Confirmatory tests | | | MSRV/XLD (ISO 6579) | MKTn/XLD (U47-100) | | |
| | | | | Rapid Spin | NA Extraction | RVS/ XLD | RVS/ IRIS | | | | | |
| 1 | Salmonella Agona | A00V38 | Feedstuff | 6 | + | + | + | + | / | / | | |
| 2 | Salmonella Anatum | 6140 | Beef Burgundy | 3 | + | + | + | + | / | / | | |
| 3 | Salmonella arizonae 51:z4,z23:- | CIP 5523 | Turkey | 6 | - | - | + | + | + | + | + | |
| | | | | 76 | - | - | + | + | / | / | | |
| | | | | 380 | - | - | + | + | / | / | | |
| 4 | Salmonella arizonae 50:z4,z23 | CIP 5526 | Egg powder | 9 | - | - | + | - | - | - | - | |
| | | | | 40 | + | + | + | - | / | / | | |
| | | | | 200 | + | + | + | - | / | / | | |
| 5 | Salmonella diarizonae 38:IV:z53 | Ad451 | Raw milk cheese | 12 | - | - | + | + | + | + | + | |
| | | | | 109 | - | - | + | + | / | / | | |
| | | | | 545 | + | - | + | + | / | / | | |
| 6 | Salmonella diarizonae 61:-:1,5,7 | Ad1280 | Raw milk cheese | 6 | - | - | + | + | + | + | + | |
| | | | | 42 | - | - | + | + | / | / | | |
| | | | | 210 | - | - | + | + | / | / | | |
| 7 | Salmonella Blockley | Ad 923 | Chicken | 3 | + | + | + | + | / | / | | |
| 8 | Salmonella Bovismorbificans | 728 | Agar | 4 | + | + | + | + | / | / | | |
| 9 | Salmonella Braenderup | 178 | Food product | 8 | + | + | + | + | / | / | | |
| 10 | Salmonella Brandenburg | Ad 351 | Seafood | 6 | + | + | + | + | / | / | | |
| 11 | Salmonella Bredeney | 396 | Ground beef | 5 | + | + | + | + | / | / | | |
| 12 | Salmonella Cerro | Ad 689 | Dehydrated proteins | 1 | + | + | + | + | / | / | | |
| 13 | Salmonella Cremieu | 230 | Hare | 9 | + | + | + | + | / | / | | |
| 14 | Salmonella Derby | Ad 1093 | Frozen fish fillet | 8 | + | + | + | + | / | / | | |
| 15 | Salmonella Dublin | Ad 528 | Pancake | 7 | + | + | + | + | / | / | | |
| 16 | Salmonella Enteritidis | Ad 926 | Raw veal meat | 8 | + | + | + | + | / | / | | |
| 17 | Salmonella Gallinarum | Ad 300 | Poultry slaughterhouse | 4 | - | - | - | - | - | - | - | |
| | | | | 21 | - | - | - | - | - | - | - | |
| | | | | 105 | - | - | + | - | - | - | + | |
| 18 | Salmonella Give | 436 | Ground beef | 6 | + | + | + | + | / | / | | |
| 19 | Salmonella Hadar | 35 | Poultry | 6 | + | + | + | + | / | / | | |

| INCLUSIVITY (Extension study, 2012) (PPS) | | | | | | | | | | | | | | | |
|---|------------|-------------------------|--|---------------------------------------|------------------|--------------------|----------|------------------|---|---------------------|--------------------|--|--|--|--|
| Strain | Reference | Origin | Inoculation level (cfu/225ml TT broth + I ₂ KI + Brilliant Green) | Alternative method | | | | Reference method | | MSRV/XLD (ISO 6579) | MKTn/XLD (U47-100) | | | | |
| | | | | PCR | | Confirmatory tests | | | | | | | | | |
| | | | | Rapid Spin | NA Extraction | RVS/XLD | RVS/IRIS | | | | | | | | |
| 20 | Salmonella | Havana | Ad 930 | Poultry | 4 | + | + | + | + | / | / | | | | |
| 21 | Salmonella | Heidelberg | A00E005 | Dairy industry environmental sample | 6 | + | + | + | + | / | / | | | | |
| 22 | Salmonella | houtenae 43:z4z32 | Ad 597 | Fish | 12 | - | - | + | + | + | + | | | | |
| 23 | Salmonella | Indiana | 2 | | 85 | + | + | + | + | / | / | | | | |
| 24 | Salmonella | indica 1,26,14,25:a:enx | Ad 600 | Environmental sample | 6 | + | + | + | + | / | / | | | | |
| 25 | | | | | 8 | + | - | + | + | + | + | | | | |
| 26 | Salmonella | Infantis | 12 | | 9 | + | - | + | + | / | / | | | | |
| 27 | Salmonella | Kedougou | Ad 929 | | 79 | + | - | + | + | / | / | | | | |
| 28 | Salmonella | Kottbus | 1 | Environmental sample (slaughterhouse) | 100 | / | + | + | + | / | / | | | | |
| 29 | Salmonella | Livingstone | E1 | | 5 | + | + | + | + | / | / | | | | |
| 30 | Salmonella | London | 326 | | 4 | + | + | + | + | / | / | | | | |
| 31 | Salmonella | Manhattan | 900 | Dairy environmental sample | 15 | + | + | + | + | / | / | | | | |
| 32 | Salmonella | Mbandaka | Ad 914 | | 13 | + | + | + | + | / | / | | | | |
| 33 | Salmonella | Montevideo | Ad 912 | | 16 | + | + | + | + | / | / | | | | |
| 34 | Salmonella | Napoli | Ad 928 | Mayonnaise | 3 | + | + | + | + | / | / | | | | |
| 35 | Salmonella | Newport | 540 | | 10 | - | - | - | - | + | + | | | | |
| 36 | Salmonella | Panama | 195 | | 97 | - | - | - | - | / | / | | | | |
| | | | | | 485 | + | + | + | + | / | / | | | | |
| | | | | | Toulouse sausage | 5 | + | + | + | / | / | | | | |
| | | | | | Ground beef | 4 | + | + | + | / | / | | | | |

| INCLUSIVITY (Extension study, 2012) (PPS) | | | | | | | | | | | |
|--|--|------------|--|--------------------|---------------|--------------------|-----------|---------------------|--------------------|---|--|
| Strain | Reference | Origin | Inoculation level (cfu/225ml TT broth + I ₂ KI + Brilliant Green) | Alternative method | | | | Reference method | | | |
| | | | | PCR | | Confirmatory tests | | MSRV/XLD (ISO 6579) | MKTn/XLD (U47-100) | | |
| | | | | Rapid Spin | NA Extraction | RVS/ XLD | RVS/ IRIS | | | | |
| 37 | <i>Salmonella</i> Paratyphi A | ATCC 9150 | / | 4 | - | - | - | - | + | + | |
| | | | | 82 | - | - | - | - | / | / | |
| | | | | 410 | - | - | - | - | / | / | |
| 38 | <i>Salmonella</i> Paratyphi B | Ad 301 | Clinical | 8 | + | + | + | + | / | / | |
| 39 | <i>Salmonella</i> Paratyphi C | ATCC 13428 | / | 4 | + | + | + | + | / | / | |
| 40 | <i>Salmonella</i> Regent | 328 | Duck | 4 | + | + | + | + | / | / | |
| 41 | <i>Salmonella</i> Rissen | 39 | Poultry | 12 | - | - | - | - | + | + | |
| | | | | 76 | - | - | - | - | / | / | |
| | | | | 380 | + | + | + | + | / | / | |
| 42 | <i>Salmonella</i> Saintpaul | F31 | Pilchard fillet | 11 | + | + | + | + | / | / | |
| | <i>Salmonella</i> salamae 42:b:enxz | Ad 593 | Cereals | 17 | + | + | + | + | / | / | |
| 44 | <i>Salmonella</i> Senftenberg | Ad355 | Seafood | 16 | + | + | + | + | + | + | |
| | | | | 79 | + | + | + | + | / | / | |
| 45 | <i>Salmonella</i> Typhi | Ad 302 | Clinical | 7 | + | + | + | + | / | / | |
| 46 | <i>Salmonella</i> Typhimurium | 305 | Paella | 2 | + | + | + | + | / | / | |
| 47 | <i>Salmonella</i> Typhimurium 1,4 [5], 12 :- :- | Ad 1333 | Tiramisu | 19 | - | - | + | + | - | + | |
| | | | | 136 | + | + | + | + | / | / | |
| | | | | 1060 | + | + | + | + | / | / | |
| 48 | <i>Salmonella</i> Typhimurium 1,4 [5], 12 : i :- | Ad 1334 | Ready-to-eat meal (meat) | 5 | + | + | + | + | / | / | |
| 49 | <i>Salmonella</i> Typhimurium 1,4,[5],12:-:1,2 | Ad 1335 | Primary production environmental sample | 10 | + | + | + | + | / | / | |
| 50 | <i>Salmonella</i> Urbana | Ad 501 | Food product | 10 | + | + | + | + | / | / | |
| | <i>Salmonella</i> Virchow | F276 | Spice(curry) | 7 | + | + | + | + | / | / | |

PPS extension study (2012): additional assays by adding sterilized poultry faeces in the primary enrichment broth

| Strain | | | Inoculation level (CFU/225ml TT broth + I ₂ KI + Brilliant Green) | MicroSEQ Salmonella spp | | | | Reference method | | | |
|------------|-------------|------------|--|-------------------------|--------------------|-----------------------------------|----------------------|------------------|-----------------------------------|--|--|
| | | | | PCR | | Confirmatory tests | | | | | |
| | | | | Rapid Spin | NA Extraction | XLD | IRIS | | | | |
| Salmonella | diarizonae | Ad451 | 106 | + | + | + | + | + | + | | |
| Salmonella | diarizonae | Ad1301 | 97 | - | - | - | - | + | + | | |
| Salmonella | arizonae | CIP 5523 | 37 | + | + | + | + | + | + | | |
| Salmonella | arizonae | CIP 5522 | 74 (Ct 37.69)* | -/+ (Ct 37.21)* | -/+ (Ct 37.21)* | + | + | + | + | | |
| Salmonella | Paratyphi A | ATCC 9150 | 73 | + | + | + (H2S negative) | + | - | + (H2S negative) | | |
| Salmonella | Paratyphi A | ATCC 11511 | 62 | + | + | - | + (5 colonies) | - | + (H2S negative) | | |
| Salmonella | Gallinarum | 1 | 77 | + | + | + (H2S negative) | + | - | + (Microcolonies H2S negative) | | |
| Salmonella | Gallinarum | Ad300 | 75 | + | + | + (Microcolonies H2S negative) | + (microcolonies) | + | - | | |

| INCLUSIVITY (Renewal study, 2018) | | | | | | | | | | | | |
|-----------------------------------|----------------------------------|------------|--|--|--------------------|--------------------|---------------------------|------------|-----|-------------------------------|--------------|--|
| Strains | Reference | Origin | Inoculation level(cfu/225ml TT Broth+I ₂ KI +Brilliant Green) | Alternative method after subculture in BPW 4 h | | | | | | Reference method if necessary | | |
| | | | | PCR | | Confirmatory tests | | | | MSRV/ XLD | MKTn/ XLD | |
| | | | | Rapid Spin Result (Cq) | MagMax Result (Cq) | RVS/XLD | RVS/Brilliance Salmonella | Latex test | | | | |
| 1 | Salmonella Abaetetuba | Ad2318 | Unknown | 49 | + (15,67) | +(20,53) | + | + | + | | | |
| 2 | Salmonella Aberdeen | CIP 105618 | Unknown | 36 | + (32,20) | +(34,50) | + | + | + | | | |
| 3 | Salmonella Abortusequi | Ad2321 | Unknown | 19 | - (38,00) | - (35,85) | st | st | / | / | / | |
| | | | | 108 | - (36,08) | - (36,02) | st | st | / | +(H2S-) | +(H2S-) | |
| | | | | 108 (with 25g faeces) | + (15,78) | +(20,28) | - | + (white) | +W | / | / | |
| 4 | Salmonella Abortusovis | Ad2320 | Ovine foetus | 8 | - | - | st | st | / | / | / | |
| | | | | 151 | - (36,08) | - | st | st | / | - | +(H2S-) | |
| | | | | 151 (with 25g faeces) | + (35,36) | +(26,93) | -/+(48 h) | -/+(48 h) | +vw | / | / | |
| 5 | Salmonella Adelaïde | Ad2319 | Turkey breeding environment | 87 | + (19,84) | +(22,17) | + | + | +vw | / | / | |
| 6 | Salmonella Anatum | A00E007 | Dusts | 38 | + (25,61) | +(28,61) | + | + | + | / | / | |
| 7 | Salmonella arizona 48:z4,z23:- | Ad1850 | Poultry environmental sample | 28 | + (27,63) | +(29,90) | + | + | +vw | / | / | |
| 8 | Salmonella Bareilly | Ad 1687 | Chocolate industry | 41 | + (15,84) | +(19,34) | + | + | + | / | / | |
| 9 | Salmonella bongori 66 :z35:- | Ad 599 | Environmental sample | 20 | i/- | + (29,16) | + | + (white) | + | / | / | |
| | | | | 54 | - | - | + | + (white) | + | + | + | |
| | | | | 54 (with 25g faeces) | + (29,49) | +(33,22) | + | + | + | / | / | |
| 10 | Salmonella Braenderup | Adria 111 | Pork meat | 40 | + (23,63) | +(27,10) | + | + | + | / | / | |
| 11 | Salmonella Caracas | Ad2322 | Spice | 56 | + (14,63) | +(16,88) | + | + | + | / | / | |
| 12 | Salmonella Chester | CIP 103543 | Unknown | 57 | + (18,67) | +(18,88) | + | + | + | / | / | |
| 13 | Salmonella Cubana | Ad2323 | Dust feed environment | 41 | + (35,07) | - (36,99) | + | + | + | / | / | |
| 14 | Salmonella diarizonae 61:k:1,5,7 | Ad 1300 | Raw ewe milk | 32 | + (16,23) | +(18,95) | + | + | + | / | / | |
| 15 | Salmonella Dublin | Ad 529 | Beef meat | 40 | + (23,25) | +(25,09) | + | + (pâle) | + | / | / | |
| 16 | Salmonella Enteritidis | Ad 477 | Hen meat | 20 | + (20,44) | +(20,08) | + | + | + | / | / | |
| 17 | Salmonella Gaminara | Ad2324 | Boar meat | 53 | + (16,00) | +(19,10) | + | + | + | / | / | |
| 18 | Salmonella Hadar | 24871 | Chicken meat | 26 | + (15,95) | +(18,46) | + | + | + | / | / | |
| 19 | Salmonella houtenae 50:g,z51 | Ad 596 | Dairy product | 32 | - | - | + | + | +W | / | / | |
| | | | | 319 | - | - | + | + | + | + | + | |
| | | | | 319 (with 25g faeces) | - (37,08) | - | + | + | + | / | / | |
| | | | | BHI broth | - (39,10) | - | +(yellow edges) | + (pâle) | + | / | / | |

| INCLUSIVITY (Renewal study, 2018) | | | | | | | | | | | | |
|-----------------------------------|------------|------------------|--|--|-----------------------|--------------------|---------------------------|------------|----|-------------------------------|--------------|---|
| Strains | Reference | Origin | Inoculation level(cfu/225ml TT Broth+I ₂ KI +Brilliant Green) | Alternative method after subculture in BPW 4 h | | | | | | Reference method if necessary | | |
| | | | | PCR | | Confirmatory tests | | | | MSRV/ XLD | MKTn/ XLD | |
| | | | | Rapid Spin Result (Cq) | MagMax Result (Cq) | RVS/XLD | RVS/Brilliance Salmonella | Latex test | | | | |
| 20 | Salmonella | Hvittingfoss | Ad2325 | Raw stuff | 45 | +(15,53) | +(18,95) | + | + | + | / | / |
| 21 | Salmonella | Indiana | Ad 174 | White cheese | 22 | +(21,92) | +(26,03) | + | + | + | / | / |
| 22 | Salmonella | indica11:b:e,n,x | Ad2337 | Chicken breeding environment | 12 | +(27,06) | +(28,43) | + | + | + | / | / |
| 23 | Salmonella | Infantis | F401B | Cheese | 28 | +(15,17) | +(18,99) | + | + | + | / | / |
| 24 | Salmonella | Javiana | Ad2326 | Turkey meat | 36 | +(14,82) | +(20,19) | + | + | + | / | / |
| 25 | Salmonella | Kentucky | Ad1756 | Poultry environmental sample | 25 | +(15,13) | +(17,42) | + | + | + | / | / |
| 26 | Salmonella | Lille | Adria 37 | Food product | 52 | +(15,09) | +(17,20) | + | + | + | / | / |
| 27 | Salmonella | Livingstone | Ad 1107 | Dusts | 20 | +(16,21) | +(18,58) | + | + | + | / | / |
| 28 | Salmonella | Meleagridis | 505 | Raw milk | 37 | +(16,07) | +(19,08) | + | + | + | / | / |
| 29 | Salmonella | Michigan | Ad2327 | Low moisture sausage | 45 | +(23,43) | +(24,50) | + | + | + | / | / |
| 30 | Salmonella | Minnesota | Ad2328 | Feed | 32 | +(23,93) | +(25,40) | + | + | + | / | / |
| 31 | Salmonella | Mississippi | Ad2329 | Parakeet | 43 | +(16,03) | +(17,45) | + | + | + | / | / |
| 32 | Salmonella | Muenchen | CIP 106178 | Unknown | 28 | +(15,04) | +(16,77) | + | + | + | / | / |
| 33 | Salmonella | Newport | Adria 586 | Sausage | 10 | +(16,41) | +(19,50) | + | + | + | / | / |
| 34 | Salmonella | Oranienburg | Ad1724 | Cereals | 46 | +(16,91) | +(19,49) | + | + | + | / | / |
| 35 | Salmonella | Panama | Adria 8 | Ground beef | 25 | +(17,00) | +(19,80) | + | + | + | / | / |
| 36 | Salmonella | Poona | Ad2330 | Poultry feed | 45 | +(14,39) | +(18,19) | + | + | + | / | / |
| 37 | Salmonella | Putten | Ad2331 | Feed for chicken | 45 | +(15,52) | +(18,05) | + | + | + | / | / |
| 38 | Salmonella | Rubislaw | Ad2332 | Shark cartilage | 44 | +(16,57) | +(17,56) | + | + | + | / | / |
| 39 | Salmonella | Schwarzengrund | Ad2333 | Egg products environment | 39 | +(18,84) | +(21,48) | + | + | + | / | / |
| 40 | Salmonella | Stanley | Ad 1688 | Chocolate industry | 23 | -(37,49) | +(35,31) | st | st | / | / | / |
| | | | | | 138 | +(34,24) | - | +(H2S-) | + | + | + | + |
| | | | | | 138 (with 25g faeces) | +(14,55) | +(21,31) | + | + | + | / | / |
| 41 | Salmonella | Tennessee | A00E006 | Dusts from dairy industry | 13 | +(16,53) | +(17,61) | + | + | + | / | / |
| 42 | Salmonella | Thompson | AER301 | Poultry | 8 | +(14,89) | +(18,57) | + | + | + | / | / |
| 43 | Salmonella | Typhimurium | Ad 1070 | Pork meat | 6 | +(15,99) | +(18,20) | + | + | + | / | / |
| 44 | Salmonella | Urbana | Ad 2334 | Shrimps | 47 | +(16,91) | +(21,52) | + | + | + | / | / |
| 45 | Salmonella | Veneziana | Adria 233 | Food product | 72 | +(15,91) | +(20,00) | + | + | + | / | / |

| INCLUSIVITY (Renewal study, 2018) | | | | | | | | | | | | | |
|-----------------------------------|------------|---------------------------|------------|--------------------------------|--|--|-----------|--------------------|--------------------|---|---|-------------------------------|--------------|
| Strains | | | Reference | Origin | Inoculation level(cfu/225ml TT Broth+I ₂ KI +Brilliant Green) | Alternative method after subculture in BPW 4 h | | | | | | Reference method if necessary | |
| | | | | | | PCR | | Confirmatory tests | | | | MSRV/ XLD | MKTn/ XLD |
| 46 | Salmonella | Wandsworth | Ad2335 | Fillet of mullet | 88 | + (15,89) | + (20,58) | + | + | + | / | / | |
| 47 | Salmonella | Weltevreden | Ad2336 | Treated water | 20 | + (14,42) | + (17,61) | + | + | + | / | / | |
| 48 | Salmonella | Bardo | Adria 569 | Meat for sausage | 24 | + (15,08) | + (18,57) | + | + | + | / | / | |
| 49 | Salmonella | Bovismorbificans | Adria 6629 | Sausage | 22 | + (16,34) | + (19,01) | + | + | + | / | / | |
| 50 | Salmonella | Landau | Ad 499 | Unknown | 33 | + (19,88) | + (23,53) | + | + | + | / | / | |
| 51 | Salmonella | houtenae (43:z4,z32) | Ad597 | Fish | 84 | + (17,71) | + (17,78) | + | + (small colonies) | + | / | / | |
| | | | | | BHI broth | + (17,90) | + (19,44) | | | | | | |
| 52 | Salmonella | houtenae (6,14:24,z23:-) | Ad1834 | Raw ewe milk | 88 | - (37,51) | - | + | + (small colonies) | + | / | / | |
| | | | | | BHI broth | - (39,78) | + (19,42) | | | | | | |
| 53 | Salmonella | houtenae (38:z4,z23:-) | Ad2681 | Clinic (sanke) | 79 | - | - | + | + (small colonies) | + | / | / | |
| | | | | | BHI broth | - (39,78) | - (38,62) | | | | | | |
| 54 | Salmonella | houtenae (1,40:z4,z23:-) | Ad2682 | Primary production environment | 90 | + (35,42) | - | + | + (small colonies) | + | / | / | |
| | | | | | BHI broth | - (37,98) | - (38,65) | | | | | | |

Appendix 9 - Inter-laboratory study: results obtained by the collaborators and the expert laboratory (initial validation study)

Laboratory: **A**
 Aerobic mesophilic flora : *Not done*

| N°Sample | Reference method ISO 6579 | | | | | | Alternative method MicroSEQ Salmonella | | | Agreement | |
|----------|---------------------------|---------|------|---------|---------------------|--------------|---|--------------|--------------|-----------|--|
| | RVS | | MKTn | | Confirmation result | Final result | PCR result | Confirmation | Final result | | |
| | XLD | Rambach | XLD | Rambach | | | | | | | |
| A3 | - | - | - | - | / | - | - | / | - | = | |
| A4 | - | - | - | - | / | - | - | / | - | = | |
| A8 | - | - | - | - | / | - | - | / | - | = | |
| A11 | - | - | - | - | / | - | - | / | - | = | |
| A13 | - | - | - | - | / | - | - | / | - | = | |
| A18 | - | - | - | - | / | - | - | / | - | = | |
| A21 | - | - | - | - | / | - | - | / | - | = | |
| A24 | - | - | - | - | / | - | - | / | - | = | |
| A1 | + | + | + | + | + | + | + | + | + | = | |
| A6 | + | + | + | + | + | + | + | + | + | = | |
| A7 | + | + | + | + | + | + | + | + | + | = | |
| A12 | + | + | + | + | + | + | + | + | + | = | |
| A14 | + | + | + | + | + | + | + | + | + | = | |
| A16 | + | + | + | + | + | + | + | + | + | = | |
| A20 | + | + | + | + | + | + | + | + | + | = | |
| A23 | + | + | + | + | + | + | + | + | + | = | |
| A2 | + | + | + | + | + | + | + | + | + | = | |
| A5 | + | + | + | + | + | + | + | + | + | = | |
| A9 | + | + | + | + | + | + | + | + | + | = | |
| A10 | + | + | + | + | + | + | + | + | + | = | |
| A15 | + | + | + | + | + | + | + | + | + | = | |
| A17 | + | + | + | + | + | + | + | + | + | = | |
| A19 | + | + | + | + | + | + | + | + | + | = | |
| A22 | + | + | + | + | + | + | + | + | + | = | |

Laboratory:**B**

Aerobic mesophilic flora

Not done

| N°Sample | Reference method ISO 6579 | | | | | | Alternative method MicroSEQ Salmonella | | | Agreement | |
|----------|---------------------------|-----------------------|------|-----------------------|---------------------|--------------|---|--------------|--------------|-----------|--|
| | RVS | | MKTn | | Confirmation result | Final result | PCR result | Confirmation | Final result | | |
| | XLD | Brilliance salmonella | XLD | Brilliance salmonella | | | | | | | |
| B3 | - | - | - | - | / | - | - | / | - | = | |
| B4 | - | - | - | - | / | - | - | / | - | = | |
| B8 | - | - | - | - | / | - | - | / | - | = | |
| B11 | - | - | - | - | / | - | - | / | - | = | |
| B13 | - | - | - | - | / | - | - | / | - | = | |
| B18 | - | - | - | - | / | - | - | / | - | = | |
| B21 | - | - | - | - | / | - | - | / | - | = | |
| B24 | - | - | - | - | / | - | - | / | - | = | |
| B1 | + | + | + | + | + | + | + | + | + | = | |
| B6 | + | + | + | + | + | + | + | + | + | = | |
| B7 | + | + | + | + | + | + | + | + | + | = | |
| B12 | + | + | + | + | + | + | + | + | + | = | |
| B14 | + | + | + | + | + | + | + | + | + | = | |
| B16 | + | + | + | + | + | + | + | + | + | = | |
| B20 | + | + | + | + | + | + | + | + | + | = | |
| B23 | + | + | + | + | + | + | + | + | + | = | |
| B2 | + | + | + | + | + | + | + | + | + | = | |
| B5 | + | + | + | + | + | + | + | + | + | = | |
| B9 | + | + | + | + | + | + | + | + | + | = | |
| B10 | + | + | + | + | + | + | + | + | + | = | |
| B15 | + | + | + | + | + | + | + | + | + | = | |
| B17 | + | + | + | + | + | + | + | + | + | = | |
| B19 | + | + | + | + | + | + | + | + | + | = | |
| B22 | + | + | + | + | + | + | + | + | + | = | |

Laboratory:

C

Aerobic mesophilic flora:

Not done

| N°Sample | Reference method ISO 6579 | | | | | | Alternative method MicroSEQ Salmonella | | | Agreement | |
|----------|---------------------------|-----------------------|------|-----------------------|---------------------|--------------|---|--------------|--------------|-----------|--|
| | RVS | | MKTn | | Confirmation result | Final result | PCR result | Confirmation | Final result | | |
| | XLD | Brilliance salmonella | XLD | Brilliance salmonella | | | | | | | |
| C3 | - | - | - | - | / | - | - | / | - | = | |
| C4 | - | - | + | + | - | - | - | / | - | | |
| C8 | - | - | - | - | / | - | - | / | - | = | |
| C11 | - | - | - | - | / | - | - | / | - | = | |
| C13 | - | - | + | - | - | - | - | / | - | = | |
| C18 | - | - | - | - | / | - | - | / | - | = | |
| C21 | - | - | - | - | / | - | - | / | - | = | |
| C24 | - | - | + | - | / | - | - | / | - | = | |
| C1 | + | + | + | + | + | + | + | + | + | = | |
| C6 | + | + | + | + | + | + | + | + | + | = | |
| C7 | + | + | + | + | + | + | + | + | + | = | |
| C12 | + | + | + | + | + | + | + | + | + | = | |
| C14 | + | + | + | + | + | + | + | + | + | = | |
| C16 | / (agar plate empty) | / (agar plate empty) | + | + | + | + | + | + | + | = | |
| C20 | + | + | + | + | + | + | + | + | + | = | |
| C23 | + | + | + | + | + | + | + | + | + | = | |
| C2 | + | + | + | + | + | + | + | + | + | = | |
| C5 | + | + | + | + | + | + | + | + | + | = | |
| C9 | + | + | + | + | + | + | + | + | + | = | |
| C10 | + | + | + | + | + | + | + | + | + | = | |
| C15 | + | + | + | + | + | + | + | + | + | = | |
| C17 | + | + | + | + | + | + | + | + | + | = | |
| C19 | + | + | + | + | + | + | + | + | + | = | |
| C22 | + | + | + | + | + | + | + | + | + | = | |

Laboratory :**D****Aerobic mesophilic flora :** **$9,5 \cdot 10^4 / g$**

| N°Sample | Reference method ISO 6579 | | | | | | Alternative method MicroSEQ Salmonella | | | Agreement | |
|----------|---------------------------|-----------------------|------|-----------------------|---------------------|--------------|---|--------------|--------------|-----------|--|
| | RVS | | MKTn | | Confirmation result | Final result | PCR result | Confirmation | Final result | | |
| | XLD | Brilliance salmonella | XLD | Brilliance salmonella | | | | | | | |
| D3 | - | - | - | - | / | - | - | / | - | = | |
| D4 | - | - | - | - | / | - | - | / | - | = | |
| D8 | - | - | - | - | / | - | - | / | - | = | |
| D11 | - | - | - | - | / | - | - | / | - | = | |
| D13 | - | - | - | - | / | - | - | / | - | = | |
| D18 | - | - | - | - | / | - | - | / | - | = | |
| D21 | - | - | - | - | / | - | - | / | - | = | |
| D24 | - | - | - | - | / | - | - | / | - | = | |
| D1 | + | + | + | + | + | + | + | + | + | = | |
| D6 | + | + | + | + | + | + | + | + | + | = | |
| D7 | + | + | + | + | + | + | + | + | + | = | |
| D12 | + | + | + | + | + | + | + | + | + | = | |
| D14 | + | + | + | + | + | + | + | + | + | = | |
| D16 | + | + | + | + | + | + | + | + | + | = | |
| D20 | + | + | + | + | + | + | + | + | + | = | |
| D23 | + | + | + | + | + | + | + | + | + | = | |
| D2 | + | + | + | + | + | + | + | + | + | = | |
| D5 | + | + | + | + | + | + | + | + | + | = | |
| D9 | + | + | + | + | + | + | + | + | + | = | |
| D10 | + | + | - | + | + | + | + | + | + | = | |
| D15 | + | + | + | + | + | + | + | + | + | = | |
| D17 | + | + | + | + | + | + | + | + | + | = | |
| D19 | + | + | + | + | + | + | + | + | + | = | |
| D22 | + | + | + | + | + | + | + | + | + | = | |

Laboratory:**E**

Aerobic mesophilic flora:

1,5.10⁴/g

| N°Sample | Reference method ISO 6579 | | | | | | Alternative method MicroSEQ Salmonella | | | Agreement | |
|----------|---------------------------|-----------------------|------|-----------------------|---------------------|--------------|---|--------------|--------------|-----------|--|
| | RVS | | MKTn | | Confirmation result | Final result | PCR result | Confirmation | Final result | | |
| | XLD | Brilliance salmonella | XLD | Brilliance salmonella | | | | | | | |
| E3 | - | - | - | - | / | - | - | / | - | = | |
| E4 | - | - | - | - | / | - | - | / | - | = | |
| E8 | - | - | - | - | / | - | - | / | - | = | |
| E11 | - | - | - | - | / | - | - | / | - | = | |
| E13 | + | + 1 colony | + | - | - | - | - | / | - | = | |
| E18 | - | - | - | - | / | - | - | / | - | = | |
| E21 | + | - | + | - | - | - | - | / | - | = | |
| E24 | - | - | - | - | / | - | - | / | - | = | |
| E1 | + | + | + | + | + | + | + | + | + | = | |
| E6 | + | + | + | + | + | + | + | + | + | = | |
| E7 | + | + | + | + | + | + | + | + | + | = | |
| E12 | + | + | + | + | + | + | + | + | + | = | |
| E14 | + | + | + | + | + | + | + | + | + | = | |
| E16 | + | + | + | + | + | + | + | + | + | = | |
| E20 | + | + | + | + | + | + | + | + | + | = | |
| E23 | + | + | + | + | + | + | + | + | + | = | |
| E2 | + | + | + | + | + | + | + | + | + | = | |
| E5 | + | + | + | + | + | + | + | + | + | = | |
| E9 | + | + | + | + | + | + | + | + | + | = | |
| E10 | + | + | + | + | + | + | + | + | + | = | |
| E15 | + | + | + | + | + | + | + | + | + | = | |
| E17 | + | + | + | + | + | + | + | + | + | = | |
| E19 | + | + | + | + | + | + | + | + | + | = | |
| E22 | + | + | + | + | + | + | + | + | + | = | |

Laboratory:**F**

Aerobic mesophilic flora:

2,0.10⁵/g

| N°Sample | Reference method ISO 6579 | | | | | | Alternative method MicroSEQ Salmonella | | | Agreement | |
|----------|---------------------------|-----------------------|------|-----------------------|---------------------|--------------|---|--------------|--------------|-----------|--|
| | RVS | | MKTn | | Confirmation result | Final result | PCR result | Confirmation | Final result | | |
| | XLD | Brilliance salmonella | XLD | Brilliance salmonella | | | | | | | |
| F3 | - | - | - | - | / | - | - | / | - | = | |
| F4 | - | - | - | - | / | - | - | / | - | = | |
| F8 | - | - | - | - | / | - | - | / | - | = | |
| F11 | - | - | - | - | / | - | - | / | - | = | |
| F13 | - | - | - | - | / | - | - | / | - | = | |
| F18 | - | - | - | - | / | - | - | / | - | = | |
| F21 | - | - | - | - | / | - | - | / | - | = | |
| F24 | - | - | - | - | / | - | - | / | - | = | |
| F1 | + | + | + | + | + | + | + | + | + | = | |
| F6 | + | + | + | + | + | + | + | + | + | = | |
| F7 | + | + | + | + | + | + | + | + | + | = | |
| F12 | + | + | + | + | + | + | + | + | + | = | |
| F14 | + | + | + | + | + | + | + | + | + | = | |
| F16 | + | + | + | + | + | + | + | + | + | = | |
| F20 | + | + | + | + | + | + | + | + | + | = | |
| F23 | + | + | + | + | + | + | + | + | + | = | |
| F2 | + | + | + | + | + | + | + | + | + | = | |
| F5 | + | + | + | + | + | + | + | + | + | = | |
| F9 | + | + | + | + | + | + | + | + | + | = | |
| F10 | + | + | - | + | + | + | + | + | + | = | |
| F15 | + | + | + | + | + | + | + | + | + | = | |
| F17 | + | + | + | + | + | + | + | + | + | = | |
| F19 | + | + | + | + | + | + | + | + | + | = | |
| F22 | + | + | + | + | + | + | + | + | + | = | |

Laboratory:**G**

Aerobic mesophilic flora:

2,6.10⁴/g

| N°Sample | Reference method ISO 6579 | | | | | | Alternative method MicroSEQ Salmonella | | | Agreement | |
|----------|---------------------------|-----------------------|------|-----------------------|---------------------|--------------|---|--------------|--------------|-----------|--|
| | RVS | | MKTn | | Confirmation result | Final result | PCR result | Confirmation | Final result | | |
| | XLD | Brilliance salmonella | XLD | Brilliance salmonella | | | | | | | |
| G3 | - | - | - | - | / | - | - | / | - | = | |
| G4 | - | - | - | - | / | - | - | / | - | = | |
| G8 | - | - | - | - | / | - | - | / | - | = | |
| G11 | - | - | - | - | / | - | - | / | - | = | |
| G13 | - | - | - | - | / | - | - | / | - | = | |
| G18 | - | - | - | - | / | - | - | / | - | = | |
| G21 | - | - | - | - | / | - | - | / | - | = | |
| G24 | - | - | - | - | / | - | - | / | - | = | |
| G1 | + | + | + | + | + | + | + | + | + | = | |
| G6 | + | + | + | + | + | + | + | + | + | = | |
| G7 | + | + | + | + | + | + | + | + | + | = | |
| G12 | + | + | + | + | + | + | + | + | + | = | |
| G14 | + | + | + | + | + | + | + | + | + | = | |
| G16 | + | + | + | + | + | + | + | + | + | = | |
| G20 | + | + | + | + | + | + | + | + | + | = | |
| G23 | + | + | + | + | + | + | + | + | + | = | |
| G2 | + | + | + | + | + | + | + | + | + | = | |
| G5 | + | + | + | + | + | + | + | + | + | = | |
| G9 | + | + | + | + | + | + | + | + | + | = | |
| G10 | + | + | + | + | + | + | + | + | + | = | |
| G15 | + | + | + | + | + | + | + | + | + | = | |
| G17 | + | + | + | + | + | + | + | + | + | = | |
| G19 | + | + | + | + | + | + | + | + | + | = | |
| G22 | + | + | + | + | + | + | + | + | + | = | |

Laboratory:**H**

Aerobic mesophilic flora:

 $5,7 \cdot 10^4/g$

| N° Sample | Reference method ISO 6579 | | | | | Alternative method MicroSEQ Salmonella | | | Agreement | |
|-----------|---------------------------|-----------------------|------|------------------------|---------------------|---|------------|--------------|-----------|--|
| | RVS | | MKTn | | Confirmation result | Final result | PCR result | Confirmation | | |
| | XLD | Brilliance salmonella | XLD | Brilliance salmonell a | | | | | | |
| H3 | - | - | - | - | / | - | - | / | - = | |
| H4 | - | - | - | - | / | - | - | / | - = | |
| H8 | - | - | - | - | / | - | - | / | - = | |
| H11 | - | - | - | - | / | - | - | / | - = | |
| H13 | - | - | - | - | / | - | - | / | - = | |
| H18 | - | - | - | - | / | - | - | / | - = | |
| H21 | - | - | - | - | / | - | - | / | - = | |
| H24 | - | - | - | - | / | - | - | / | - = | |
| H1 | + | + | + | + | + | + | + | + | + | |
| H6 | + | + | + | + | + | + | + | + | + | |
| H7 | + | + | + | + | + | + | + | + | + | |
| H12 | + | + | + | + | + | + | + | + | + | |
| H14 | + | + | + | + | + | + | + | + | + | |
| H16 | + | + | + | + | + | + | + | + | + | |
| H20 | + | + | + | + | + | + | + | + | + | |
| H23 | + | + | + | + | + | + | + | + | + | |
| H2 | + | + | + | + | + | + | + | + | + | |
| H5 | + | + | + | + | + | + | + | + | + | |
| H9 | + | + | + | + | + | + | + | + | + | |
| H10 | + | + | + | + | + | + | + | + | + | |
| H15 | + | + | + | + | + | + | + | + | + | |
| H17 | + | + | + | + | + | + | + | + | + | |
| H19 | + | + | + | + | + | + | + | + | + | |
| H22 | + | + | + | + | + | + | + | + | + | |

Laboratory:

I

Analysed at Day 1Aerobic mesophilic flora : 4,1.10⁴/g

| N°Sample | Reference method ISO 6579 | | | | | | Alternative method MicroSEQ Salmonella | | | Agreement | |
|----------|---------------------------|------------------------------|------|------------------------------|------------------------|-----------------|---|--------------|-----------------|-----------|--|
| | RVS | | MKTn | | Confirmation result | Final result | PCR result | Confirmation | Final result | | |
| | XLD | Brilliance salmonell a | XLD | Brilliance salmonell a | | | | | | | |
| I3 | - | - | - | - | / | - | - | / | - | = | |
| I4 | - | - | - | - | / | - | - | / | - | = | |
| I8 | - | - | - | - | / | - | - | / | - | = | |
| I11 | - | - | - | - | / | - | - | / | - | = | |
| I13 | - | - | - | - | / | - | - | / | - | = | |
| I18 | - | - | - | - | / | - | - | / | - | = | |
| I21 | - | - | - | - | / | - | - | / | - | = | |
| I24 | - | - | - | - | / | - | - | / | - | = | |
| I1 | + | + | + | + | + | + | + | + | + | = | |
| I6 | + | + | + | + | + | + | + | + | + | = | |
| I7 | + | + | + | + | + | + | + | + | + | = | |
| I12 | + | + | + | + | + | + | + | + | + | = | |
| I14 | + | + | + | + | + | + | + | + | + | = | |
| I16 | + | + | + | + | + | + | + | + | + | = | |
| I20 | + | + | + | + | + | + | + | + | + | = | |
| I23 | + | + | + | + | + | + | + | + | + | = | |
| I2 | + | + | + | + | + | + | + | + | + | = | |
| I5 | + | + | + | + | + | + | + | + | + | = | |
| I9 | + | + | + | + | + | + | + | + | + | = | |
| I10 | + | + | + | + | + | + | + | + | + | = | |
| I15 | + | + | + | + | + | + | + | + | + | = | |
| I17 | + | + | + | + | + | + | + | + | + | = | |
| I19 | + | + | + | + | + | + | + | + | + | = | |
| I22 | + | + | + | + | + | + | + | + | + | = | |

Laboratory: J

Aerobic mesophilic flora: 5,5.10⁴/g

| N°Sample | Reference method ISO 6579 | | | | | | Alternative method MicroSEQ Salmonella | | | Agreement | |
|----------|---------------------------|--------------------------|------|--------------------------|------------------------|-----------------|---|--------------|-----------------|-----------|--|
| | RVS | | MKTn | | Confirmation result | Final result | PCR result | Confirmation | Final result | | |
| | XLD | Brilliance salmonella | XLD | Brilliance salmonella | | | | | | | |
| J3 | - | - | - | - | / | - | - | / | - | = | |
| J4 | - | - | - | - | / | - | - | / | - | = | |
| J8 | - | - | - | - | / | - | - | / | - | = | |
| J11 | - | - | - | - | / | - | - | / | - | = | |
| J13 | - | - | - | - | / | - | - | / | - | = | |
| J18 | - | - | - | - | / | - | - | / | - | = | |
| J21 | - | - | - | - | / | - | - | / | - | = | |
| J24 | - | - | - | - | / | - | - | / | - | = | |
| J1 | + | + | + | + | + | + | + | + | + | = | |
| J6 | + | + | + | + | + | + | + | + | + | = | |
| J7 | + | + | + | + | + | + | + | + | + | = | |
| J12 | + | + | + | + | + | + | + | + | + | = | |
| J14 | + | + | + | + | + | + | + | + | + | = | |
| J16 | + | + | + | + | + | + | + | + | + | = | |
| J20 | + | + | + | + | + | + | + | + | + | = | |
| J23 | + | + | + | + | + | + | + | + | + | = | |
| J2 | + | + | + | + | + | + | + | + | + | = | |
| J5 | + | + | + | + | + | + | + | + | + | = | |
| J9 | + | + | + | + | + | + | + | + | + | = | |
| J10 | + | + | + | + | + | + | + | + | + | = | |
| J15 | + | + | + | + | + | + | + | + | + | = | |
| J17 | + | + | + | + | + | + | + | + | + | = | |
| J19 | + | + | + | + | + | + | + | + | + | = | |
| J22 | + | + | + | + | + | + | + | + | + | = | |

Laboratory: K

Aerobic mesophilic flora: 1,4.10⁵/g

| N°Sample | Reference method ISO 6579 | | | | | | Alternative method MicroSEQ Salmonella | | | Agreement | |
|----------|---------------------------|-----------------------|------|-----------------------|---------------------|--------------|---|--------------|--------------|-----------|--|
| | RVS | | MKTn | | Confirmation result | Final result | PCR result | Confirmation | Final result | | |
| | XLD | Brilliance salmonella | XLD | Brilliance salmonella | | | | | | | |
| K3 | - | - | - | - | / | - | - | / | - | = | |
| K4 | - | - | - | - | / | - | - | / | - | = | |
| K8 | - | - | - | - | / | - | - | / | - | = | |
| K11 | - | - | - | - | / | - | - | / | - | = | |
| K13 | - | - | - | - | / | - | - | / | - | = | |
| K18 | - | - | - | - | / | - | - | / | - | = | |
| K21 | - | - | + | - | - | - | - | / | - | = | |
| K24 | - | - | - | - | / | - | - | / | - | = | |
| K1 | + | + | + | + | + | + | + | + | + | = | |
| K6 | + | + | + | + | + | + | + | + | + | = | |
| K7 | + | + | + | + | + | + | + | + | + | = | |
| K12 | + | + | + | + | + | + | + | + | + | = | |
| K14 | + | + | + | + | + | + | + | + | + | = | |
| K16 | + | + | + | + | + | + | + | + | + | = | |
| K20 | + | + | + | + | + | + | + | + | + | = | |
| K23 | + | + | + | + | + | + | + | + | + | = | |
| K2 | + | + | + | + | + | + | + | + | + | = | |
| K5 | + | + | + | + | + | + | + | + | + | = | |
| K9 | + | + | + | + | + | + | + | + | + | = | |
| K10 | + | + | + | + | + | + | + | + | + | = | |
| K15 | + | + | + | + | + | + | + | + | + | = | |
| K17 | + | + | + | + | + | + | + | + | + | = | |
| K19 | + | + | + | + | + | + | + | + | + | = | |
| K22 | + | + | + | + | + | + | + | + | + | = | |

Laboratory:

L

Reception at Day 2(25°C)

Aerobic mesophilic flora: Not done

| N° Sample | Reference method ISO 6579 | | | | | | Alternative method MicroSEQ Salmonella | | | Agreement | |
|-----------|---------------------------|-----------------------|------|-----------------------|---------------------|--------------|---|--------------|--------------|-----------|--|
| | RVS | | MKTn | | Confirmation result | Final result | PCR result | Confirmation | Final result | | |
| | XLD | Brilliance salmonella | XLD | Brilliance salmonella | | | | | | | |
| L3 | - | - | - | - | / | - | - | / | - | = | |
| L4 | - | - | - | - | / | - | - | / | - | = | |
| L8 | - | - | - | - | / | - | - | / | - | = | |
| L11 | - | - | - | - | / | - | - | / | - | = | |
| L13 | - | - | - | - | / | - | + | - | - | (PPNC) = | |
| L18 | - | - | - | - | / | - | - | / | - | = | |
| L21 | - | - | - | - | / | - | - | / | - | = | |
| L24 | - | - | - | - | / | - | - | / | - | = | |
| L1 | + | + | + | + | + | + | + | + | + | = | |
| L6 | + | + | + | + | + | + | + | + | + | = | |
| L7 | + | + | + | + | + | + | + | + | + | = | |
| L12 | + | + | + | + | + | + | + | + | + | = | |
| L14 | + | + | + | + | + | + | + | + | + | = | |
| L16 | + | + | + | + | + | + | + | + | + | = | |
| L20 | + | + | + | + | + | + | + | + | + | = | |
| L23 | + | + | + | + | + | + | + | + | + | = | |
| L2 | + | + | + | + | + | + | + | + | + | = | |
| L5 | + | + | + | + | + | + | + | + | + | = | |
| L9 | + | + | + | + | + | + | + | + | + | = | |
| L10 | + | + | + | + | + | + | + | + | + | = | |
| L15 | + | + | + | + | + | + | + | + | + | = | |
| L17 | + | + | + | + | + | + | + | + | + | = | |
| L19 | + | + | + | + | + | + | + | + | + | = | |
| L22 | + | + | + | + | + | + | + | + | + | = | |

Laboratory: M

Aerobic mesophilic flora: 1,2.10⁵/g

| N°Sample | Reference method ISO 6579 | | | | | | Alternative method MicroSEQ Salmonella | | | Agreement | |
|----------|---------------------------|--------------------------|------|--------------------------|------------------------|-----------------|---|--------------|-----------------|-----------|--|
| | RVS | | MKTn | | Confirmation result | Final result | PCR result | Confirmation | Final result | | |
| | XLD | Brilliance salmonella | XLD | Brilliance salmonella | | | | | | | |
| M3 | - | - | - | - | / | - | - | / | - | = | |
| M4 | - | - | - | - | / | - | - | / | - | = | |
| M8 | - | - | - | - | / | - | - | / | - | = | |
| M11 | - | - | - | - | / | - | - | / | - | = | |
| M13 | - | - | - | - | / | - | - | / | - | = | |
| M18 | - | - | - | - | / | - | - | / | - | = | |
| M21 | - | - | - | - | / | - | - | / | - | = | |
| M24 | - | - | - | - | / | - | - | / | - | = | |
| M1 | + | + | + | + | + | + | + | + | + | = | |
| M6 | + | + | + | + | + | + | + | + | + | = | |
| M7 | + | + | + | + | + | + | + | + | + | = | |
| M12 | + | + | + | + | + | + | + | + | + | = | |
| M14 | + | + | + | + | + | + | + | + | + | = | |
| M16 | + | + | + | + | + | + | + | + | + | = | |
| M20 | + | + | + | + | + | + | + | + | + | = | |
| M23 | + | + | + | + | + | + | + | + | + | = | |
| M2 | + | + | + | + | + | + | + | + | + | = | |
| M5 | + | + | + | + | + | + | + | + | + | = | |
| M9 | + | + | + | + | + | + | + | + | + | = | |
| M10 | + | + | + | + | + | + | + | + | + | = | |
| M15 | + | + | + | + | + | + | + | + | + | = | |
| M17 | + | + | + | + | + | + | + | + | + | = | |
| M19 | + | + | + | + | + | + | + | + | + | = | |
| M22 | + | + | + | + | + | + | + | + | + | = | |

Laboratory:**N****Inversion between N7 and N21?**

Aerobic mesophilic flora:

3,7.10³/g

| N°Sample | Reference method ISO 6579 | | | | | | Alternative method MicroSEQ Salmonella | | | Agreement | |
|----------|---------------------------|--------------------------|------|--------------------------|------------------------|-----------------|---|--------------|-----------------|-----------|--|
| | RVS | | MKTn | | Confirmation result | Final result | PCR result | Confirmation | Final result | | |
| | XLD | Brilliance salmonella | XLD | Brilliance salmonella | | | | | | | |
| N3 | - | - | - | - | / | - | - | / | - | = | |
| N4 | - | - | - | - | / | - | - | / | - | = | |
| N8 | - | - | - | - | / | - | - | / | - | = | |
| N11 | - | - | - | - | / | - | - | / | - | = | |
| N13 | - | - | - | - | / | - | - | / | - | = | |
| N18 | - | - | - | - | / | - | - | / | - | = | |
| N21 | + | + | + | + | + | + | +/- | + | + | = | |
| N24 | - | - | - | - | / | - | - | / | - | = | |
| N1 | + | + | + | + | + | + | + | + | + | = | |
| N6 | + | + | + | + | + | + | + | + | + | = | |
| N7 | - | - | - | - | / | - | -/- | / | - | = | |
| N12 | + | + | + | + | + | + | + | + | + | = | |
| N14 | + | + | + | + | + | + | + | + | + | = | |
| N16 | + | + | + | + | + | + | + | + | + | = | |
| N20 | + | + | + | + | + | + | + | + | + | = | |
| N23 | + | + | + | + | + | + | + | + | + | = | |
| N2 | + | + | + | + | + | + | + | + | + | = | |
| N5 | + | + | + | + | + | + | + | + | + | = | |
| N9 | + | + | + | + | + | + | + | + | + | = | |
| N10 | + | + | + | + | + | + | + | + | + | = | |
| N15 | + | + | + | + | + | + | + | + | + | = | |
| N17 | + | + | + | + | + | + | + | + | + | = | |
| N19 | + | + | + | + | + | + | + | + | + | = | |
| N22 | + | + | + | + | + | + | + | + | + | = | |

Laboratory: O

Aerobic mesophilic flora: 5,9.10⁴/g

| N°Sample | Reference method ISO 6579 | | | | | | Alternative method MicroSEQ Salmonella | | | Agreement | |
|----------|---------------------------|--------------------------|------|--------------------------|------------------------|-----------------|---|--------------|-----------------|-----------|--|
| | RVS | | MKTn | | Confirmation result | Final result | PCR result | Confirmation | Final result | | |
| | XLD | Brilliance salmonella | XLD | Brilliance salmonella | | | | | | | |
| O3 | - | - | - | - | / | - | - | / | - | = | |
| O4 | - | - | - | - | / | - | - | / | - | = | |
| O8 | - | - | - | - | / | - | - | / | - | = | |
| O11 | - | - | - | - | / | - | - | / | - | = | |
| O13 | - | - | - | - | / | - | - | / | - | = | |
| O18 | - | - | - | - | / | - | - | / | - | = | |
| O21 | - | - | - | - | / | - | - | / | - | = | |
| O24 | - | - | - | - | / | - | - | / | - | = | |
| O1 | + | + | + | + | + | + | + | + | + | = | |
| O6 | + | + | + | + | + | + | + | + | + | = | |
| O7 | + | + | + | + | + | + | + | + | + | = | |
| O12 | + | + | + | + | + | + | + | + | + | = | |
| O14 | + | + | + | + | + | + | + | + | + | = | |
| O16 | + | + | + | + | + | + | + | + | + | = | |
| O20 | + | + | + | + | + | + | + | + | + | = | |
| O23 | + | + | + | + | + | + | + | + | + | = | |
| O2 | + | + | + | + | + | + | + | + | + | = | |
| O5 | + | + | + | + | + | + | + | + | + | = | |
| O9 | + | + | + | + | + | + | + | + | + | = | |
| O10 | + | + | + | + | + | + | + | + | + | = | |
| O15 | + | + | + | + | + | + | + | + | + | = | |
| O17 | + | + | + | + | + | + | + | + | + | = | |
| O19 | + | + | + | + | + | + | + | + | + | = | |
| O22 | + | + | + | + | + | + | + | + | + | = | |

Laboratory: P (ADRIA)

Aerobic mesophilic flora: 1,6.10⁵/g

| N°Sample | Reference method ISO 6579 ♦ | | | | | | Alternative method -MicroSEQ Salmonella | | | Agreement | |
|----------|-----------------------------|-----------------------|------|-----------------------|---------------------|--------------|--|--------------|--------------|-----------|--|
| | RVS | | MKTn | | Confirmation result | Final result | PCR result | Confirmation | Final result | | |
| | XLD | Brilliance salmonella | XLD | Brilliance salmonella | | | | | | | |
| P3 | - | - | - | - | / | - | - | / | - | = | |
| P4 | - | - | - | - | / | - | - | / | - | = | |
| P8 | - | - | - | - | / | - | - | / | - | = | |
| P11 | - | - | - | - | / | - | - | / | - | = | |
| P13 | - | - | - | - | / | - | - | / | - | = | |
| P18 | - | - | - | - | / | - | - | / | - | = | |
| P21 | - | - | - | - | / | - | - | / | - | = | |
| P24 | - | - | - | - | / | - | - | / | - | = | |
| P1 | + | + | + | + | + | + | + | + | + | = | |
| P6 | + | + | + | + | + | + | + | + | + | = | |
| P7 | + | + | + | + | + | + | + | + | + | = | |
| P12 | + | + | + | + | + | + | + | + | + | = | |
| P14 | + | + | + | + | + | + | + | + | + | = | |
| P16 | + | + | + | + | + | + | + | + | + | = | |
| P20 | + | + | + | + | + | + | + | + | + | = | |
| P23 | + | + | + | + | + | + | + | + | + | = | |
| P2 | + | + | + | + | + | + | + | + | + | = | |
| P5 | + | + | + | + | + | + | + | + | + | = | |
| P9 | + | + | + | + | + | + | + | + | + | = | |
| P10 | + | + | + | + | + | + | + | + | + | = | |
| P15 | + | + | + | + | + | + | + | + | + | = | |
| P17 | + | + | + | + | + | + | + | + | + | = | |
| P19 | + | + | + | + | + | + | + | + | + | = | |
| P22 | + | + | + | + | + | + | + | + | + | = | |

♦ Analyses performed according to the COFRAC accreditation