

**NF VALIDATION - Validation of alternative analysis methods
Application to the food industry**

**Summary report
according to the standard EN ISO 16140-2:2016**

Qualitative method

**VIDAS® *Listeria monocytogenes* II (VIDAS LMO2 – Ref. 30704)
Certificate # BIO 12/09-07/02
for the detection of *Listeria monocytogenes***

*Protocol for a broad range of foods, excluding raw products for test portions in 25 g, in
environmental samples and in dairy products excluding raw milk and powdered infant formula
and cereals in test portions of 125 g*

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Preamble

- Protocols of validation:

- EN ISO 16140-1 and EN ISO 16140-2 (September 2016): Microbiology of the food chain — Method validation
Part 1: Vocabulary.
Part 2: Protocol for the validation of alternative (proprietary) methods against a reference method.
- Requirements regarding comparison and interlaboratory studies for implementation of the standard EN ISO 16140-2 (project version 7).

- Reference method:

- **EN ISO 11290-1 (1997)** : Horizontal method for the detection and enumeration of *Listeria monocytogenes* and *Listeria spp* – Part 1 : detection method.
- **EN ISO 11290-1 / A1 (2005)** : Horizontal method for the detection and enumeration of *Listeria monocytogenes* and *Listeria spp* – Part 1 : detection method.
- **EN ISO 11290-1 (July 2017)**: Microbiology of the food chain – Horizontal method for the detection and enumeration of *Listeria monocytogenes* and *Listeria spp*- Part 1: Detection method.

- Application scope:

- **Human food products:**
 - meat products 25 g (excluding raw products),
 - dairy products 25 g (excluding raw products),
 - seafood products 25 g(excluding raw products),
 - vegetables 25 g (excluding raw products),
 - dairy products 125g (excluding raw milk),
 - powder infant formula and cereals 125 g.
- **Environmental samples.**

- Certification body:

- **AFNOR Certification** (<https://nf-validation.afnor.org/>).

Definitions

- **Method comparison study**

The method comparison study is the part of the validation process that is performed in the organizing laboratory. It consists of three parts namely the following:

- A comparative study of the results of the reference method to the results of the alternative method in (naturally and/or artificially) contaminated samples (so-called sensitivity study);
- A comparative study to determine the relative level of detection (RLOD) in artificially contaminated samples (so-called RLOD study);
- An inclusivity/exclusivity study of the alternative method.

- **Sensitivity study**

The sensitivity study aims to determine the difference in sensitivity between the reference and the alternative method.

The sensitivity is the ability of the reference method or alternative method to detect the analyte.

- **Relative level of detection study**

A comparative study is conducted to evaluate the level of detection (LOD) of the alternative method against the reference method. The evaluation is based on the calculation of the relative level of detection (RLOD).

The level of detection at 50% (LOD₅₀) is the measured analyte concentration, obtained by a given measurement procedure, for which the probability of detection is 50%.

The relative level of detection level of detection at $P = 0,50$ (LOD₅₀) of the alternative method divided by the level of detection at $P = 0,50$ (LOD₅₀) of the reference method.

- **Inclusivity and exclusivity study**

The inclusivity study is a study involving pure target strains to be detected or enumerated by the alternative method.

The exclusivity study is a study involving pure non-target strains, which can be potentially cross-reactive, but are not expected to be detected or enumerated by the alternative method.

- **Interlaboratory study**

The interlaboratory 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 aim of the interlaboratory study is to determine the difference in sensitivity between the reference and the alternative method when tested by different collaborators using identical samples (reproducibility conditions).

Table of contents

| | |
|--|----|
| 1. Introduction..... | 6 |
| 2. Protocols of the methods | 7 |
| 2.1. Alternative method | 7 |
| 2.1.1. Principle of the method..... | 7 |
| 2.1.2. Protocol of the method | 7 |
| 2.1.3. Restrictions..... | 8 |
| 2.2. Reference method | 8 |
| 2.3. Application scope | 9 |
| 2.4. Study design | 9 |
| 3. Methods comparison study | 10 |
| 3.1. Sensitivity study..... | 10 |
| 3.1.1. Protocols applied during the studies | 10 |
| 3.1.2. Number and nature of the samples..... | 10 |
| 3.1.3. Artificial contamination | 11 |
| 3.1.4. Results | 12 |
| 3.1.5. Calculation of relative trueness (RT), sensitivity (SE) and false positive ratio (PFR)..... | 13 |
| 3.1.6. Analysis of discordant results | 15 |
| 3.1.7. Calculation and interpretation of data | 18 |
| 3.1.8. Enrichment broth storage at 2 – 8°C for 72 hours (extension study only)..... | 19 |
| 3.1.9. Conclusion of the sensitivity study | 19 |
| 3.2. Relative detection level study..... | 19 |
| 3.2.1. Matrices used | 19 |
| 3.2.2. Contamination protocol | 20 |
| 3.2.3. Results | 21 |
| 3.2.4. Interpretation and conclusion | 22 |
| 3.3. Inclusivity and exclusivity study..... | 22 |
| 3.3.1. Results | 22 |
| 3.3.2. Conclusion | 22 |
| 3.4. Practicability | 23 |
| 3.5. Conclusion | 23 |
| 4. Interlaboratory study..... | 25 |
| 4.1. Organization of the interlaboratory study | 25 |
| 4.2. Experimental parameters | 25 |

| | | |
|--------|--|----|
| 4.3. | Control of the experimental parameters | 25 |
| 4.3.1. | Samples preparation and spiking | 25 |
| 4.3.2. | Temperature and state of the samples | 25 |
| 4.4. | Results | 26 |
| 4.4.1. | Total viable counts | 26 |
| 4.4.2. | Expert laboratory results | 26 |
| 4.4.3. | Collaborators results | 26 |
| 4.4.4. | Analysis of the results and collaborators selected for the statistical analysis | 27 |
| 4.5. | Interpretation of the results and statistical analysis..... | 28 |
| 4.5.1. | Interpretation of the results..... | 28 |
| 4.5.2. | Specificity of the methods..... | 28 |
| 4.5.3. | Sensitivity of the two methods, relative trueness and false positive ratio of the alternative method | 28 |
| 4.5.4. | Determination of the acceptability limit and conclusion..... | 29 |
| 4.5.5. | Evaluation of the RLOD, LOD _{50%} and LOD _{95%} | 29 |
| 5. | General conclusion | 30 |

Appendices

Appendix A: Protocol of the alternative method

Appendix B: Protocol of the reference method

Appendix C: Artificial contaminations

Appendix D: Relative sensitivity study – Raw results

Appendix E: Relative level of detection study – Raw results

Appendix F: Inclusivity – Exclusivity

Appendix G: Interlaboratory study – Raw results

1. Introduction

The VIDAS® LMO2 method is validated by AFNOR Certification under the NF VALIDATION EN ISO 16140 brand with the certification number BIO 12/09-07/02 for the detection of *Listeria monocytogenes* according to the standard EN ISO 16140-2:2016 for a broad range of foods, excluding raw products for test portions in 25 g, in environmental samples and in dairy products excluding raw milk and powdered infant formula and cereals in test portions of 125 g.

Table 1 summarizes the different steps of the validation that occurred since the initial validation.

| Date | Study | Expert Laboratory | Standards |
|----------------|---|--|---|
| July 2002 | Initial validation for all human food products | SERMHA – Institut Pasteur de Lille | - ISO 16140:2003 (preliminary study) - AFNOR requirements: interlaboratory study - ISO 11290-1:1997 |
| September 2002 | Extension for environmental samples of food production in accordance with EN ISO 16140 | | - ISO 16140:2003 (preliminary study) - ISO 11290-1/A1 |
| June 2004 | Modification of application scope with the exclusion of raw products (for each category of human food products) | | - ISO 16140:2003 - ISO 11290-1/A1:2005 |
| December 2006 | First renewal. Complementary assays and completion of interlaboratory study. | | - ISO 16140:2003 - ISO 11290-1/A1:2005 |
| May 2010 | Second renewal | Eurofins IPL Nord | - ISO 16140:2003 - ISO 11290-1/A1:2005 |
| May 2014 | Third renewal | Institut Scientifique d'Hygiène et d'Analyse (ISHA) | - ISO 16140:2003 - ISO 11290-1/A1:2005 |
| May 2018 | Fourth renewal. Complementary assays. | | - ISO 16140-2:2016 - ISO 11290-1/A1:2005 |
| June 2021 | Extension for 2 new protocols | Microsept | - ISO 16140-2:2016 - ISO 11290-1:2017 |
| June 2022 | Fifth renewal | Microsept | - ISO 16140-2:2016 - ISO 11290-1:2017 |

The present document introduces a summary report for the AFNOR Certification validation of the of the VIDAS® *Listeria monocytogenes* II (LMO2) method according to the standard EN ISO 16140-2:2016 for a broad range of foods, excluding raw products for test portions in 25 g, in environmental samples and in dairy products excluding raw milk and powdered infant formula and cereals in test portions of 125 g.

2. Protocols of the methods

2.1. Alternative method

2.1.1. Principle of the method

VIDAS LMO2 is an enzyme-linked fluorescent immunoassay (ELFA) for use on the VIDAS family of instruments for the specific detection of *Listeria monocytogenes* antigens.

The Solid Phase Receptacle (SPR) serves as the solid phase as well as the pipetting device. The interior of the SPR is coated with anti-*L. monocytogenes* antibodies adsorbed on its surface. Reagents for the assay are ready-to-use and pre-dispensed in the sealed reagent strips.

All of the assay steps are performed automatically by the instrument. The reaction medium is cycled in and out of the SPR several times.

Part of the enrichment broth is dispensed into the reagent strip. The antigens present will bind to the anti- *L. monocytogenes* antibodies which are coated on the interior of the SPR. Unbound sample components are washed away. Antibodies conjugated with alkaline phosphatase are cycled in and out of the SPR and will bind to any *L. monocytogenes* antigens which are themselves bound to the antibodies on the SPR wall. Further wash steps remove unbound conjugate.

During the final detection step, the substrate (4-Methylumbelliferyl phosphate) is cycled in and out of the SPR. The conjugate enzyme catalyzes the hydrolysis of this substrate into a fluorescent product (4-Methylumbelliferone), the fluorescence of which is measured at 450 nm.

At the end of the assay, the results are analyzed automatically by the instrument which generates a test value for each sample. This value is compared to a set of stored standards (thresholds) and each result is interpreted (positive, negative), as shown in figure 1.

Figure 1: interpretation of the VIDAS LMO2 test

| | |
|---|--------------------------|
| $Test\ value\ (TV) = \frac{RFV_{sample}}{RFV_{standard}}$ | TV < 0.05: negative test |
| | TV ≥ 0.05: positive test |

2.1.2. Protocol of the method

The protocols are as follows:

- **General protocol :**

- pre-enrichment in half-Fraser broth, incubated for 24 to 26 hours at 30±1°C,
- subculture in Fraser broth (1 ml in 10 ml), incubated for 24 to 26 hours at 30±1°C.

The VIDAS LMO2 test is then performed using an aliquot of 0.5 ml of the unheated Fraser broth.

Samples found to be positive using the VIDAS LMO2 test are confirmed through isolation on agar: PALCAM, Oxford or a chromogenic agar and confirmation according to one of the two following options:

- the characteristic colonies are confirmed using the tests set out in the methods standardized by CEN or ISO,
- if a chromogenic agar according to Ottaviani Agosti or part of an ISO 16140 validated method is used, the presence of typical *Listeria monocytogenes* colonies is sufficient to confirm the VIDAS LMO2 result.

If confirmation is not initiated immediately after a positive VIDAS test, store the enrichment broth at +2°C to +8°C. Confirmation must be initiated within 48 hours following the end of incubation. The enrichment broth can be stored for 24 hours at +2°C to +8°C before the VIDAS test is performed.

- **Specific protocols**

- Dairy products excluding raw milk: **125 g** diluted at 1/10 in pre-warmed LX broth, incubation at 30±1°C for 22 – 26 h and subculture in LX broth (0,1 ml in 6 ml) incubated at 30±1°C for 22 – 26 h.
- Powder Infant Formula and cereals: **125 g** diluted at 1/10 in pre-warmed LX broth, incubation at 30±1°C for 26 – 30 h and subculture in LX broth (0,1 ml in 6 ml) incubated at 30±1°C for 22 – 26 h.

Samples found positive using the VIDAS LMO2 test are confirmed by streaking on agar according to Ottaviani and Agosti or Palcam agar from LX broth.

The presumptive positive colonies of *Listeria monocytogenes* are confirmed by the classical tests described in the reference method, including the purification step.

If a chromogenic agar according to Ottaviani Agosti or part of an ISO 16140 validated method is used, the presence of typical *Listeria monocytogenes* colonies is sufficient to confirm the VIDAS LMO2 result.

The workflow of the method is set out in Appendix A.

2.1.3. Restrictions

There are no restrictions on use for the VIDAS LMO2 method.

2.2. Reference method

Assays of 2002 study were performed according to the standard EN ISO 11290-1 (1997) "Horizontal method for the detection and enumeration of *Listeria monocytogenes* - Part 1: detection method" and 2006 studies were performed according to the standard EN ISO 11290-1 / A1 (2005) "Horizontal method for the detection and enumeration of *Listeria monocytogenes* - Part 1: detection method."

Assays of the 2018 study were performed according to the standard EN ISO 11290-1 (2017) "Horizontal method for the detection and enumeration of *Listeria monocytogenes* and of *Listeria* spp- Part 1: detection method."

Assays of the 2021 extension study were performed by the method described in the EN ISO 11290-1:2017 "Horizontal method for the detection and enumeration of *Listeria monocytogenes* and of *Listeria* spp - Part 1: detection method."

The workflow of the reference method is presented in Appendix B.

2.3. Application scope

The scope of the method concerns a broad range of foods and environmental samples including the categories presented in table 2.

Table 2: Scope of the VIDAS LMO2 method

| Categories | | Protocol | Study design |
|--|------------------------|---|----------------|
| ① Meat products (25g) | Excluding raw products | General protocol: Half Fraser – 24-26h – 30°C Fraser (1 ml in 10 ml) – 24-26h – 30°C | Paired study |
| ② Dairy products (25g) | | | |
| ③ Seafood products (25g) | | | |
| ④ Vegetal products (25g) | | | |
| ⑤ Environmental samples | | | |
| ⑥ Dairy products excluding raw milk (125g) | | Specific protocol: Pre-warmed LX broth – 22-26h – 30°C LX broth (0,1 ml in 6 ml) – 22-26h – 30°C | Unpaired study |
| ⑦ Powder Infant Formula and cereals (125g) | | Specific protocol: Pre-warmed LX broth – 26-30h – 30°C LX broth (0,1 ml in 6 ml) – 22-26h – 30°C | Unpaired study |

2.4. Study design

Concerning the general protocol, as there is a shared enrichment step for both the alternative and the reference methods, the same test portion is used for both methods. The study will thus provide paired data and the expression “paired study” is used to describe the study design.

For the categories using the new protocols added in extension study, enrichment broths are different, it is an “unpaired study”.

3. Methods comparison study

The study was conducted on a variety of samples and strains representative of food products. This is not an exhaustive list of the various matrices included in the application scope. For any remark on the alternative method, you can contact AFNOR Certification by connecting to the Internet page <http://nf-validation.afnor.org/contact-2/>.

3.1. Sensitivity study

The purpose of this study is to compare the two methods – the reference method EN ISO 11290-1:2017 and the VIDAS LMO2 method – on samples contaminated or not contaminated with *Listeria monocytogenes*.

3.1.1. Protocols applied during the studies

- **Incubation times:**

The minimum incubation times were tested, namely:

- 24 hours for the enrichment in half Fraser broth and in Fraser broth for categories **①, ②, ③, ④ & ⑤**
- 22 hours for the enrichment in LX pre-warmed broth for dairy products excluding raw milk **⑥**
- 26 hours for the enrichment in LX pre-warmed broth for Powder Infant Formula and cereals **⑦**
- 22 hours for the subculture in LX broth for categories **⑥ & ⑦**

- **Confirmations:**

For general protocol, all positive and discordant samples were confirmed after isolation of Fraser broth on PALCAM and Oxford agar using the tests described in the ISO 11290-1 method (1997) for the 2002 study, the ISO 11290-1/A1 method for the 2006 study, and the ISO 11290-1 method (2017) for the 2018 study.

For specific protocols, the positive results following the VIDAS LMO2 test were confirmed by streaking of the unheated LX enrichment broth on two selective *Listeria* agars (selective *Listeria* agar according to Ottaviani and Agosti and Palcam agar and performing the conventional tests described in the CEN or ISO standardized methods (including the purification step).

- **Cold storage of the enriched broths:**

For general protocol, positive enrichment Fraser broths were also stored for 24 hours at 2 - 8° C then retested by the alternative method and confirmed if positive.

For specific protocols the positive enrichment LX broths were also stored for 72 hours at 2 - 8°C and then tested again using the alternative method and confirmed if positive, in order to document the impact of a cold storage.

3.1.2. Number and nature of the samples

The sensitivity study concerned 490 samples. Three hundred and nineteen (319) samples from the 2002 and the 2006 studies were kept for the statistical analysis.

Thirty-two (32) samples of the renewal study 2018 were added for the statistical analysis. One hundred and thirty-nine (139) samples were analyzed during the extension study in 2021.

Samples analyzed by category and type are presented in table 3.

Table 3: Distribution of the samples per category and type (*: by any method)

| Category | Type | Positive results* | Negative results | Total | |
|--|--------------|--|------------------|------------|------------|
| Meat products ① | a | Prepared meals with meat | 10 | 10 | 20 |
| | b | Cooked sausages and delicatessen | 22 | 23 | 45 |
| | Total | | 32 | 33 | 65 |
| Dairy products ② | a | Cow's milk cheeses | 10 | 15 | 25 |
| | b | Cheeses from goat's milk or sheep's milk | 10 | 15 | 25 |
| | c | Desserts, milk powders, milks | 10 | 10 | 20 |
| | Total | | 30 | 40 | 70 |
| Seafood products ③ | a | Shellfish | 10 | 13 | 23 |
| | b | Terrines | 10 | 10 | 20 |
| | c | Cooked dishes made from fish | 13 | 12 | 25 |
| | Total | | 33 | 35 | 68 |
| Vegetal products ④ | a | Potato based precookers | 10 | 16 | 26 |
| | b | Vegetables cut | 8 | 16 | 24 |
| | c | Vegetables crushed, grinded, shredded | 12 | 8 | 20 |
| | Total | | 30 | 40 | 70 |
| Environment samples ⑤ | a | Process water | 10 | 10 | 20 |
| | b | Surface samples | 22 | 14 | 36 |
| | c | Residues | 8 | 14 | 22 |
| | Total | | 40 | 38 | 78 |
| Dairy products (excl. raw milk) 125g ⑥ | a | Raw milk cheese | 11 | 18 | 29 |
| | b | Pasteurized cheese | 8 | 12 | 20 |
| | c | Dairy powder | 11 | 13 | 24 |
| | Total | | 30 | 43 | 73 |
| Powder infant formula and cereals 125g ⑦ | a | Infant formula w/o probiotic | 10 | 11 | 21 |
| | b | Infant formula with probiotic | 10 | 14 | 24 |
| | c | Infant cereal with & w/o probiotic | 10 | 11 | 21 |
| | Total | | 30 | 36 | 66 |
| All categories | Total | | 225 | 265 | 490 |

3.1.3. Artificial contamination

Two hundred and twenty-five (225) positives samples were analyzed including 72 naturally contaminated samples.

Artificial contamination was carried out using Spiking or Seeding protocols in accordance with the requirements of the validation standard and of the AFNOR Certification Technical Board. None of the strains were used more than 6 times to get a positive result. For Spiking, strains were stressed using different treatments and the stress intensity was evaluated. For Seeding, bacterial suspensions were enumerated and inoculated in the matrices. The samples so contaminated were stored at 2 – 8°C for 48 to 72 hours. The results are presented in Appendix C.

Table 4 shows the proportion of naturally and artificially contaminated samples giving a positive result for all categories combined.

Table 4: distribution of the positive samples per level for all categories

| Category | | Number and percentage of samples analyzed per contamination levels | | | | | |
|------------------|---|--|-------------|--------------------------------|--------------------------|----------------------------------|-------------|
| | | NC | Mixture | ≤ 5 (spiking) ≤ 3 (seeding) | 5-10 (sp.) 3-10 (se.) | >10 | TOTAL |
| General protocol | ① Meat products | 12 | 0 | 10 | 7 | 3 (1 type a, 2 type b) | 32 |
| | ② Dairy products | 4 | 2 | 18 | 3 | 3 (1 type a, 1 type b, 1 type c) | 30 |
| | ③ Seafood products | 7 | 0 | 20 | 6 | 0 | 33 |
| | ④ Vegetal products | 12 | 9 | 4 | 3 | 2 (2 type c) | 30 |
| | ⑤ Environmental samples | 34 | 0 | 6 | 0 | 0 | 40 |
| New protocol | ⑥ Dairy products excluding raw milk /125g | 3 | 0 | 27 | 0 | 0 | 30 |
| | ⑦ PIF and cereals /125g | 0 | 0 | 30 | 0 | 0 | 30 |
| TOTAL | | 72 | 11 | 115 | 19 | 8 | 225 |
| % | | 32% | 4.9% | 51.1% | 8.4% | 3.6% | 100% |

225 samples gave a positive result by at least one of the 2 methods and 32% of them were naturally contaminated. In view of the scope of the method (exclusion of raw products) and the 2 categories added during the extension in 2021 (mainly milk powders), the rate of 40% of naturally contaminated samples required in the AFNOR rules (version 7) was difficult to maintain and was accepted by the Technical Board.

3.1.4. Results

Raw data are shown in appendix D.

Table 5 shows the results of the sensitivity study for all categories.

Table 5: results of the sensitivity study for both methods (R+/-: reference method positive or negative, A+/-: alternative method positive or negative, PA: positive agreement, NA: negative agreement, ND: negative deviation, PD: positive deviation, PP: presumptive positive before confirmation)

| Category | Response | R+ | R- |
|---|----------|--------------------------------------|--|
| Meat products ① | A+ | PA = 29 | PD = 1 |
| | A- | ND = 2 incl. 0 PPND | NA = 33 incl. 0 PPNA |
| Dairy products ② | A+ | PA = 30 | PD = 0 |
| | A- | ND = 0 incl. 0 PPND | NA = 40 incl. 0 PPNA |
| Seafood products ③ | A+ | PA = 29 | PD = 2 |
| | A- | ND = 2 incl. 0 PPND | NA = 35 incl. 0 PPNA |
| Vegetal products ④ | A+ | PA = 30 | PD = 0 |
| | A- | ND = 0 incl. 0 PPND | NA = 40 incl. 0 PPNA |
| Environmental sample ⑤ | A+ | PA = 39 | PD = 0 |
| | A- | ND = 1 incl. 0 PPND | NA = 38 incl. 0 PPNA |
| Dairy products (excl. raw milk) 125g ⑥ | A+ | PA = 20 | PD = 8 |
| | A- | ND = 2 incl. 0 PPND | NA = 43 incl. 2 PPNA |
| Powder infant formula and cereals 125g ⑦ | A+ | PA = 21 | PD = 7 |
| | A- | ND = 2 incl. 0 PPND | NA = 36 incl. 0 PPNA |
| All categories | A+ | PA = 198 | PD = 18 |
| | A- | ND = 9 incl. 0 PPND | NA = 265 incl. 2 PPNA |

3.1.5. Calculation of relative trueness (RT), sensitivity (SE) and false positive ratio (PFR)

The set of results obtained were used to calculate the relative trueness, the sensitivity and the false positive ratio for each of the categories and for all the categories, according to the formulas set out in the EN ISO 16140-2:2016 standard (table 6).

Table 6: values in % of sensitivity for the two methods, relative trueness and false positive ratio for the alternative method (SEalt: sensitivity for the alternative method, SEref: sensitivity for the reference method, RT: relative trueness, FPR: false positive ratio for the alternative method)

| Categories | Type | PA | NA | ND | PD | N | Including PPND | Including PPNA | SEalt | SEref | RT | FPR |
|---|--------------|------------|------------|----------|-----------|------------|----------------|----------------|--------------|--------------|--------------|-------------|
| Meat products ① | a | 10 | 10 | 0 | 0 | 20 | 0 | 0 | 100.0% | 100.0% | 100.0% | 0.0% |
| | b | 19 | 23 | 2 | 1 | 45 | 0 | 0 | 90.9% | 95.5% | 93.3% | 0.0% |
| | Total | 29 | 33 | 2 | 1 | 65 | 0 | 0 | 93.8% | 96.9% | 95.4% | 0.0% |
| Dairy products ② | a | 10 | 15 | 0 | 0 | 25 | 0 | 0 | 100.0% | 100.0% | 100.0% | 0.0% |
| | b | 10 | 15 | 0 | 0 | 25 | 0 | 0 | 100.0% | 100.0% | 100.0% | 0.0% |
| | c | 10 | 10 | 0 | 0 | 20 | 0 | 0 | 100.0% | 100.0% | 100.0% | 0.0% |
| | Total | 30 | 40 | 0 | 0 | 70 | 0 | 0 | 100.0% | 100.0% | 100.0% | 0.0% |
| Seafood products ③ | a | 8 | 13 | 1 | 1 | 23 | 0 | 0 | 90.0% | 90.0% | 91.3% | 0.0% |
| | b | 10 | 10 | 0 | 0 | 20 | 0 | 0 | 100.0% | 100.0% | 100.0% | 0.0% |
| | c | 11 | 12 | 1 | 1 | 25 | 0 | 0 | 92.3% | 92.3% | 92.0% | 0.0% |
| | Total | 29 | 35 | 2 | 2 | 68 | 0 | 0 | 93.9% | 93.9% | 94.1% | 0.0% |
| Vegetal products ④ | a | 10 | 16 | 0 | 0 | 26 | 0 | 0 | 100.0% | 100.0% | 100.0% | 0.0% |
| | b | 8 | 16 | 0 | 0 | 24 | 0 | 0 | 100.0% | 100.0% | 100.0% | 0.0% |
| | c | 12 | 8 | 0 | 0 | 20 | 0 | 0 | 100.0% | 100.0% | 100.0% | 0.0% |
| | Total | 30 | 40 | 0 | 0 | 70 | 0 | 0 | 100.0% | 100.0% | 100.0% | 0.0% |
| Environmental samples ⑤ | a | 9 | 10 | 1 | 0 | 20 | 0 | 0 | 90.0% | 100.0% | 95.0% | 0.0% |
| | b | 22 | 14 | 0 | 0 | 36 | 0 | 0 | 100.0% | 100.0% | 100.0% | 0.0% |
| | c | 8 | 14 | 0 | 0 | 22 | 0 | 0 | 100.0% | 100.0% | 100.0% | 0.0% |
| | Total | 39 | 38 | 1 | 0 | 78 | 0 | 0 | 97.5% | 100.0% | 98.7% | 0.0% |
| Dairy products (excl. milk) ⑥ | a | 9 | 18 | 1 | 1 | 29 | 0 | 2 | 90.9% | 90.9% | 93.1% | 11.1% |
| | b | 4 | 12 | 1 | 3 | 20 | 0 | 0 | 87.5% | 62.5% | 80.0% | 0.0% |
| | c | 7 | 13 | 0 | 4 | 24 | 0 | 0 | 100.0% | 63.6% | 83.3% | 0.0% |
| | Total | 20 | 43 | 2 | 8 | 73 | 0 | 2 | 93.3% | 73.3% | 86.3% | 4.7% |
| Powder Infant formula & cereals ⑦ | a | 8 | 11 | 0 | 2 | 21 | 0 | 0 | 100.0% | 80.0% | 90.5% | 0.0% |
| | b | 6 | 14 | 1 | 3 | 24 | 0 | 0 | 90.0% | 70.0% | 83.3% | 0.0% |
| | c | 7 | 11 | 1 | 2 | 21 | 0 | 0 | 90.0% | 80.0% | 85.7% | 0.0% |
| | Total | 21 | 36 | 2 | 7 | 66 | 0 | 0 | 93.3% | 76.7% | 86.4% | 0.0% |
| All categories | Total | 169 | 265 | 9 | 18 | 490 | 0 | 2 | 95.4% | 90.8% | 88.6% | 0.8% |

The results for all categories are summarized in the table 7 below.

Table 7: summary of the results for all categories

| Parameter | Formula EN ISO 16140-2 :2016 | Results for all categories |
|--|---|----------------------------|
| Sensitivity of the alternative method (SE _{alt}) | $SE_{alt} = \frac{(PA + PD)}{(PA + ND + PD)} \times 100 \%$ | 95.4 % |
| Sensitivity of the reference method (SE _{ref}) | $SE_{ref} = \frac{(PA + ND)}{(PA + ND + PD)} \times 100 \%$ | 90.8 % |
| Relative trueness (RT) | $RT = \frac{(PA + NA)}{N} \times 100 \%$ | 88.6 % |
| False positive ratio (FPR) | $FPR = \frac{FP}{NA} \times 100 \%$ | 0.8 % |

3.1.6. Analysis of discordant results

Discordant results are examined according to the standard ISO 16140-2: 2016.

The negative deviations are given in table 8 and the positive deviations in table 9.

Table 8: summary of the negative deviations

| Cat. | Sample number | Name | Type | Inoculation level CFU | Direct assay | | | Broth storage at 2-8°C | | |
|------|---------------|---|------|-----------------------|--------------|-------------------|-------------|------------------------|--------------|-------------|
| | | | | | VIDAS test | Confirmation | Concordance | VIDAS test | Confirmation | Concordance |
| ① | L9 | Pâté country | b | nc | - | No charact colony | ND | / | / | / |
| | Q10 | Ham | b | 7.6 | - | No charact colony | ND | / | / | / |
| ③ | R14 | Shrimp shelled | a | 0.8 | - | <i>L. mono</i> | ND | / | / | / |
| | N13 | Fish tajine | c | 3.1 | - | <i>L. mono</i> | ND | / | / | / |
| ⑤ | 2002 | Saucier post water | a | nc | - | <i>L. mono</i> | ND | / | / | / |
| ⑥ | 1977572 | Raw milk cow cheese (Morbier) | a | nc | - | - | ND | - | - | ND |
| | 1977551 | Pasteurized cow cheese | b | 1.8 | - | - | ND | - | - | ND |
| ⑦ | 1977590 | Organic infant milk 6-12 months <i>Lactobacillus fermentum hereditum</i> CECT5716 – 10 ⁶ UFC/g | b | 4.0 | - | - | ND | - | - | ND |
| | 1977746 | Whole oat and wheat infant cereals <i>B. lactis</i> 6,8 10 ⁶ CFU/g | c | 3.4 | - | - | ND | - | - | ND |

Nine negative deviations were observed: 3 from naturally contaminated sample and 6 from artificially contaminated samples.

For 2 negatives deviations (L9 and Q10), the protocol of the alternative method was applied and non-typical colonies was observed. The first enrichment in half-Fraser is identical for the two methods, however time and temperature applied for the second enrichment in Fraser, are different between the two methods. It is probable that the enrichment of the alternative method did not allow to reach the threshold of the VIDAS LMO2 method.

Three (3) negative deviations (R14; N13; 2002) are false negative highlighted by the confirmation protocol of the alternative method. It is probable that the enrichment did not allow to reach the threshold of the VIDAS LMO2 test.

For four (4) negative deviations (1977572, 1977551, 1917790, 1977746), no typical colony was able to be recovered from the enriched LX broths. These 4 negative deviations most probably come from the nature of the study design. In an unpaired study, because of the difference of sampling between both methods, and the use of naturally contaminated samples or samples contaminated at low levels, no cell of *Listeria monocytogenes* may have been present in the sampling of one of the two methods.

Table 9: summary of the positive deviations

| Cat. | Sample number | Sample | Type | Inoculation level CFU | Reference method ISO 11290-1 | | | | | | VIDAS LMO2 method | | | | |
|------|---------------|--|------|-----------------------|------------------------------|---------|--------------|---------|---------------------|--------|-------------------|----------------------|---|--------|-------------|
| | | | | | Half fraser | | Fraser | | Confirmation | Result | VIDAS test | Conf. O&A and PALCAM | Conf. ISO | Result | Concordance |
| | | | | | O&A | PAL-CAM | O&A | PAL-CAM | | | | | | | |
| 1 | O14 | Wieners | b | 0,9 | ∅ | ∅ | ∅ | ∅ | / | A | + | +LA | <i>L.monocytogenes</i> | P | PD |
| 3 | N15 | Winkles | a | 7,5 | ∅ | -ME | ∅ | ∅ | / | A | + | +MA | <i>L.monocytogenes</i> | P | PD |
| | N8 | Waterzai of fish stew | c | 3,1 | ∅ | ∅ | ∅ | ∅ | / | A | + | +LA | <i>L.monocytogenes</i> | P | PD |
| 6 | 1977823 | Raw milk cow cheese (Tomme) | a | 2,0 | ∅ | -EL | ∅ | -EL | / | A | + | AM halo | <i>L.monocytogenes</i> | P | PD |
| | 1977542 | Pasteurized cow cheese (Munster) | b | 1,8 | -EM | -EM | ∅ | -EM | / | A | + | AM halo | <i>L.monocytogenes</i> | P | PD |
| | 1977545 | Pasteurized cow cheese with pepper | b | 1,6/2,2 | AL sans halo | -EM | AM sans halo | -EM | <i>L.welshimeri</i> | A | + | AM halo+sans halo | <i>L.monocytogenes</i> <i>L.welshimeri</i> | P | PD |
| | 1977546 | Pasteurized sheep cheese | b | 1,6/2,2 | CL sans halo | -EM | AM sans halo | CM | <i>L.welshimeri</i> | A | + | AM halo+sans halo | <i>L.monocytogenes</i> <i>L.welshimeri</i> | P | PD |
| | 1977555 | Powdered whey | c | 4,8/4,0 | -EL | -EL | AM sans halo | DM | <i>L.innocua</i> | A | + | AM sans halo | <i>L.innocua</i> <i>L.monocytogenes</i> | P | PD |
| | 1977581 | Powdered whole milk | c | 4,0 | -EM | -EM | -EL | -EM | / | A | + | CL halo | <i>L.monocytogenes</i> | P | PD |
| | 1977582 | Skimmed milk powder | c | 4,0 | -EM | -EM | -EL | -EM | / | A | + | BM halo | <i>L.monocytogenes</i> | P | PD |
| | 1977584 | Powdered buttermilk | c | 4,4 | -EM | -EM | -EL | -EL | / | A | + | AM halo | <i>L.monocytogenes</i> | P | PD |
| 7 | 1977567 | Baby milk powder thickened formula 6-12 months | a | 4,0 | ∅ | -EL | ∅ | ∅ | / | A | + | AM halo | <i>L.monocytogenes</i> | P | PD |
| | 1977568 | Junior baby milk powder + 18 months | a | 4,0 | ∅ | -EL | ∅ | -EL | / | A | + | AM halo | <i>L.monocytogenes</i> | P | PD |
| | 1977592 | Infant milk 0-6 months <i>B.Lactis</i> – 4,5 10 ⁶ UFC/g | b | 4,6 | -EL | -EL | -EL | -EM | / | A | + | AM halo | <i>L.monocytogenes</i> | P | PD |
| | 1977595 | Infant milk 6-12 months Bifido. – 1,6 10 ⁶ UFC/g | b | 4,6 | -EL | -EM | ∅ | -EM | / | A | + | AM halo | <i>L.monocytogenes</i> | P | PD |
| | 1978391 | Infant milk 1-3 years <i>Lactobacillus reuteri</i> 5,4 10 ⁶ UFC/g | b | 3,8 | ∅ | ∅ | -EM | -EL | / | A | + | AL halo | <i>L.monocytogenes</i> | P | PD |
| | 1977750 | Infant chocolate cereals | c | 2,8 | ∅ | -EL | ∅ | -EL | / | A | + | AM halo | <i>L.monocytogenes</i> | P | PD |
| | 1977751 | Infant caramel cereals | c | 2,6 | ∅ | -EL | ∅ | -EL | / | A | + | AM halo | <i>L.monocytogenes</i> | P | PD |

Eighteen positive deviations were observed and concern artificially contaminated samples. For three (3) positive deviations (O14, N15, N8), the first enrichment in half-Fraser is identical for the two methods, however time and temperature applied for the second enrichment in Fraser, are different between the two methods. For the other 15 positive deviations (extension study), as with the negative deviations, they are most likely due to the nature of the study design. In an unpaired study, due to the difference in sampling between the two methods.

3.1.7. Calculation and interpretation of data

Table 10 shows the difference between negative deviations and positive deviations and the acceptability limits.

Table 10: acceptability limits

| Category | Type | ND | PD | Unpaired | | Paired | | | | Combined | |
|------------------------------------|--------------|----------|-----------|-----------|----------|----------|----------|----------|----------|-----------|----------|
| | | | | (ND-PD) | AL | (ND-PD) | AL | (ND+PD) | AL | (ND-PD) | AL |
| Meat products ① | a | 0 | 0 | | | 0 | / | 0 | / | 0 | 3 |
| | b | 2 | 1 | | | 1 | / | 3 | / | 1 | |
| | Total | 2 | 1 | | | 1 | 3 | 3 | 6 | 1 | |
| Dairy products ② | a | 0 | 0 | | | 0 | / | 0 | / | 0 | 3 |
| | b | 0 | 0 | | | 0 | / | 0 | / | 0 | |
| | c | 0 | 0 | | | 0 | / | 0 | / | 0 | |
| | Total | 0 | 0 | | | 0 | 3 | 0 | 6 | 0 | |
| Seafood products ③ | a | 1 | 1 | | | 0 | / | 2 | / | 0 | 3 |
| | b | 0 | 0 | | | 0 | / | 0 | / | 0 | |
| | c | 1 | 1 | | | 0 | / | 2 | / | 0 | |
| | Total | 2 | 2 | | | 0 | 3 | 4 | 6 | 0 | |
| Vegetal products ④ | a | 0 | 0 | | | 0 | / | 0 | / | 0 | 3 |
| | b | 0 | 0 | | | 0 | / | 0 | / | 0 | |
| | c | 0 | 0 | | | 0 | / | 0 | / | 0 | |
| | Total | 0 | 0 | | | 0 | 3 | 0 | 6 | 0 | |
| Environm. sample ⑤ | a | 1 | 0 | | | 1 | / | 1 | / | 1 | 3 |
| | b | 0 | 0 | | | 0 | / | 0 | / | 0 | |
| | c | 0 | 0 | | | 0 | / | 0 | / | 0 | |
| | Total | 1 | 0 | | | 1 | 3 | 1 | 6 | 1 | |
| DP (except raw milk) 125 g ⑥ | a | 1 | 1 | 0 | / | | | | | 0 | 3 |
| | b | 1 | 3 | -2 | / | | | | | -2 | |
| | c | 0 | 4 | -4 | / | | | | | -4 | |
| | Total | 2 | 8 | -6 | 3 | | | | | -6 | |
| PIF and cereals 125 g ⑦ | a | 0 | 2 | -2 | / | | | | | -2 | 3 |
| | b | 1 | 3 | -2 | / | | | | | -2 | |
| | c | 1 | 2 | -1 | / | | | | | -1 | |
| | Total | 2 | 7 | -5 | 3 | | | | | -5 | |
| All categories | Total | 9 | 18 | | | | | | | -9 | 7 |

The observed values (ND – PD) and (ND+PD) are below the acceptability limit for each category and for all categories. The alternative method produces results comparable to the reference method.

3.1.8. Enrichment broth storage at 2 – 8°C for 72 hours (extension study only)

A stability study of the enriched LX broths stored at 5±3°C for 72 hours was performed on all positive and discordant samples. After storage, the broths were reanalyzed and confirmed. No change was observed from the initial analysis.

Table 11 shows the difference between negative deviations and positive deviations and the acceptability limits.

Table 11: acceptability limits

| Category | Type | ND | PD | (ND-PD) | Acceptability limit (AL) | Observation |
|-------------------------------------|--------------|----------|-----------|------------|--------------------------|--------------|
| Dairy products (except raw milk) ⑥ | a | 1 | 1 | / | / | (ND-PD) ≤ AL |
| | b | 1 | 3 | | | |
| | c | 0 | 4 | | | |
| | Total | 2 | 8 | -6 | 3 | |
| Powder infant formula and cereals ⑦ | a | 0 | 2 | / | / | |
| | b | 1 | 3 | | | |
| | c | 1 | 2 | | | |
| | Total | 2 | 7 | -5 | 3 | |
| All categories | Total | 4 | 15 | -11 | 4 | |

The alternative method produces results comparable to the reference method after storage of the broths for 3 days at 5±3°C for the two categories tested.

3.1.9. Conclusion of the sensitivity study

The statistical tests of the EN ISO 16140-2:2016 standard conclude that the alternative method produces comparable results to the reference method.

3.2. Relative detection level study

3.2.1. Matrices used

Various "food matrix-strain" pairs were studied in parallel using the reference method and the alternative method, for the studied categories (cf. table 12).

Table 12: pairs matrix-strain for each category

| Category | Matrix/strain pairs | Origin of the strain | Study |
|--|--|-------------------------|---------------------|
| ① Meat products | Rillettes / <i>Listeria monocytogenes</i> 1/2c | / | Previous validation |
| ② Dairy products | Pasteurized milk / <i>Listeria monocytogenes</i> 1/2b | / | Previous validation |
| ③ Seafood products | Breaded fish / <i>Listeria monocytogenes</i> 1/2a | / | Previous validation |
| ④ Vegetal products | Pan-fried vegetables / <i>Listeria monocytogenes</i> 4b | / | Previous validation |
| ⑤ Environmental sample | Process water / <i>Listeria monocytogenes</i> 1/2c | / | Previous validation |
| ⑥ Dairy products (except raw milk) 125g | Cottage cheese with raw milk / <i>Listeria monocytogenes</i> 4b HBP652 | Raw milk cheese | Microsept 2021 |
| ⑦ Powder infant formula and cereals 125g | Infant milk powder with probiotics / <i>Listeria monocytogenes</i> 1/2b JAR249 | Pasteurized milk cheese | Microsept 2021 |

For categories ①, ②, ③, ④, ⑤ & ⑥ the total flora of the matrix was determined. For the category ⑦, an enumeration of probiotics was carried out according to ISO 15214. The results are presented in Appendix E.

3.2.2. Contamination protocol

- Protocol for categories ①, ②, ③, ④ and ⑤ (previous validation)

One negative control and 3 to 4 level of contaminations were tested.

Six replicates for each level of contamination were inoculated and analyzed by the reference method and the alternative method.

Artificial contamination was carried out in accordance with the requirements of the EN ISO 16140 standard and of the AFNOR Technical Board in force.

As the two methods have the same enrichment step in half-Fraser, the same test portions of 25 g was tested by the two methods. Test portion were prepared for each level of contamination and individually inoculated with a calibrated bacterial suspension. Several dilutions of a calibrated and low-concentrated suspension of *Listeria monocytogenes* were used to spike the samples before analysis.

Simultaneously, a total viable count was performed on a portion of non-contaminated matrix to estimate the concentration of mesophilic aerobic flora. A detection of *Listeria monocytogenes* using the reference method was also performed to check the absence of the target analyte in the matrix.

- Protocol for categories ⑥ & ⑦ (assays 2021)

Three levels of contamination were prepared consisting of a negative control level, a low level, and a higher level.

For the category ⑥, the cottage cheese with raw milk was contaminated using the seeding protocol.

Bulk contaminations were performed on the matrix for the different levels of contamination, then the matrix was stored at 5±3°C for two days before analysis. Samples were then analyzed by the reference and the alternative method.

For the category ⑦, the infant milk powder with probiotics was contaminated using the spiking protocol. The strain of *Listeria monocytogenes* used was stressed with heat treatment. Each initial suspension was then contaminated with this stressed and calibrated strain.

The negative control level shall not produce positive results. Five replicates were tested for this level.

The low level shall be the theoretical detection level, it was contaminated at low level to obtain fractional recovery results. Twenty replicates were tested for this level.

The higher level shall be just above the theoretical detection level. Five replicates were tested for this level.

3.2.3. Results

The detailed results tables are set out in Appendix E.

The RLOD is defined as the ratio of the LODs of the alternative method and the reference method:
 $RLOD = \frac{LOD_{alt}}{LOD_{ref}}$.

The RLODs calculations were performed according to the standard ISO 16140-2: 2016 using the Excel spreadsheet available for download at <http://standards.iso.org/iso/16140>, with unknown concentrations. Values of the RLODs are set out in table 13.

Table 13: RLODs values for all categories (RLOD: the estimated relative level of detection value, RLODU: the upper limit of the 95% confidence interval for RLOD, RLODL: the lower limit of the 95% confidence interval for RLOD, $b = \ln(RLOD)$: logarithm of the RLOD value, $sd(b)$: standard deviation of b , z-Test statistic: absolute value of the test statistic of the z-Test with the null hypothesis $H_0: b=0$, p-value: p-value of the z-Test)

| Matrix/strain pairs | RLOD | RLODL | RLODU | $b = \ln(RLOD)$ | $sd(b)$ | z-Test statistic | p-value | AL |
|---|-------|-------|-------|-----------------|---------|------------------|---------|-----|
| ① Rillettes / <i>L. mono</i> 1/2c | 1.000 | 0.419 | 2.385 | 0.000 | 0.435 | 0.000 | 1.000 | 1.5 |
| ② Pasteurized milk / <i>L. mono</i> 1/2b | 1.000 | 0.383 | 2.608 | 0.000 | 0.479 | 0.000 | 1.000 | 1.5 |
| ③ Breaded fish / <i>L. mono</i> 1/2a | 1.000 | 0.419 | 2.385 | 0.000 | 0.435 | 0.000 | 1.000 | 1.5 |
| ④ Pan-fried vegetables / <i>L. mono</i> 4b | 1.000 | 0.360 | 2.775 | 0.000 | 0.510 | 0.000 | 1.000 | 1.5 |
| ⑥ Process water / <i>L. mono</i> 1/2c | 1.000 | 0.386 | 2.591 | 0.000 | 0.476 | 0.000 | 1.000 | 1.5 |
| ⑦ Cottage cheese with raw milk / <i>L. mono</i> 4b HBP652 | 1.000 | 0.466 | 2.145 | 0.000 | 0.382 | 0.000 | 1.000 | 2.5 |
| ⑧ Infant milk powder with probiotics / <i>L. mono</i> 1/2b JAR249 | 1.146 | 0.498 | 2.636 | 0.136 | 0.417 | 0.327 | 0.744 | 2.5 |
| Combined | 1.018 | 0.738 | 1.404 | 0.018 | 0.161 | 0.109 | 0.913 | / |

The LOD₅₀ calculations according to Wilrich & Wilrich POD-LOD calculation program - version 10, are given in Table 14.

Table 14: LOD50% for the alternative and reference method

| Matrix | Strain | LOD50% (CFU/125g) alternative method | LOD50% (CFU/125g) Reference method |
|---|--|---|---------------------------------------|
| Rillettes | <i>L. monocytogenes</i> 1/2c | 0.680 | 0.680 |
| Pasteurized milk | <i>L. monocytogenes</i> 1/2b | 0.748 | 0.748 |
| Breaded fish | <i>L. monocytogenes</i> 1/2a | 0.567 | 0.567 |
| Pan-fried vegetables | <i>L. monocytogenes</i> 4b | 0.338 | 0.338 |
| Process water | <i>L. monocytogenes</i> 1/2c | 0.592 | 0.592 |
| Cottage cheese with raw milk (125g) | <i>L. monocytogenes</i> 4b | 0.569 | 0.569 |
| Infant milk powder with probiotics (125g) | <i>L. monocytogenes</i> 1/2b JAR249 | 0.669 | 0.596 |
| Combined results | | 0.597 | 0.584 |

3.2.4. Interpretation and conclusion

RLOD values are below the acceptability limit set at 1.5 for paired studies and 2.5 for unpaired studies. In conclusion, alternative and reference methods show similar LODs values for the detection of *Listeria monocytogenes* in the categories tested.

3.3. Inclusivity and exclusivity study

3.3.1. Results

The inclusivity and exclusivity of the method were defined by analyzing, respectively, 50 positive strains and 43 negative strains. The results are set out in Appendix F .

Fifty *Listeria monocytogenes* strains and 43 non-*Listeria monocytogenes* strains, of which 28 strains not belonging to the *Listeria* genus, were tested using the VIDAS LMO2 test.

All the *Listeria monocytogenes* strains provided a positive result and no cross-reactions were observed with non-target strains.

3.3.2. Conclusion

The selectivity of the method is satisfactory.

3.4. Practicability

| 1. <i>Storage conditions of the components (see package insert) – Expiration date of unopened products (see package insert)</i> | The storage temperature of the VIDAS LMO2 kit is 2-8°C. The kit expiration date is shown on the box label and on the various vials. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|---|---|--|----|----|--|----|----|--|---|---------|--|----|---|--|---|---------|--|-----------|-----------|--|----|----------|--|-----------------|-----------------|--|-----------------|-----------------|
| 2. <i>Conditions of use after first use (see package insert)</i> | The kit components should be stored at 2-8°C. If stored as recommended (pouch correctly resealed with desiccant after use, etc.), all the components will remain stable until the expiration date indicated on the label. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. <i>Time-to-result</i> Step Pre-enrichment of LX or Fraser Inoculation of LX or Fraser Streaking on selective media Perform VIDAS LMO2 test Plate reading Obtention of negative results (without confirmation) Confirmation testing Obtention of negative results (after negative confirmation testing if necessary) Obtention of positive results (confirmation of typical colonies) | <table border="1"> <thead> <tr> <th></th> <th><u>Time required (Day)</u> VIDAS LMO2 method</th> <th><u>Time required (Day)</u> EN ISO 11290-1 standard</th> </tr> </thead> <tbody> <tr> <td></td> <td>D0</td> <td>D0</td> </tr> <tr> <td></td> <td>D1</td> <td>D1</td> </tr> <tr> <td></td> <td>/</td> <td>D1 & D2</td> </tr> <tr> <td></td> <td>D2</td> <td>/</td> </tr> <tr> <td></td> <td>/</td> <td>D3 & D4</td> </tr> <tr> <td></td> <td>D2</td> <td>D4</td> </tr> <tr> <td></td> <td>D2</td> <td>D3 to D5</td> </tr> <tr> <td></td> <td>D4 to D6</td> <td>D4 to D6</td> </tr> <tr> <td></td> <td>D3 to D6</td> <td>D4 to D6</td> </tr> </tbody> </table> | | <u>Time required (Day)</u> VIDAS LMO2 method | <u>Time required (Day)</u> EN ISO 11290-1 standard | | D0 | D0 | | D1 | D1 | | / | D1 & D2 | | D2 | / | | / | D3 & D4 | | D2 | D4 | | D2 | D3 to D5 | | D4 to D6 | D4 to D6 | | D3 to D6 | D4 to D6 |
| | <u>Time required (Day)</u> VIDAS LMO2 method | <u>Time required (Day)</u> EN ISO 11290-1 standard | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | D0 | D0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | D1 | D1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | / | D1 & D2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | D2 | / | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | / | D3 & D4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | D2 | D4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | D2 | D3 to D5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | D4 to D6 | D4 to D6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | D3 to D6 | D4 to D6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. <i>Steps common to the reference method</i> | <u>Extension protocol:</u> no common step | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

3.5. Conclusion

The comparative study of the methods was performed according to the EN ISO 16140-2:2016 standard.

- **Sensitivity study**

The performance of the extension of the VIDAS LMO2 method was compared to that of the reference method EN ISO 11290-1: 2017 by analyzing 490 samples divided into seven product categories.

The observed values (ND – PD) were below to the acceptability limit for each category and for all categories after the initial test and after three days of conservation at 5±3°C for extension study. Statistically, the alternative method produces comparable results to that of the reference method.

- **Relative level of detection study**

The relative detection level of VIDAS LMO2 method and reference method was evaluated by artificially contaminating two different products.

The relative level of detection of the alternative method varies from 1,000 to 1,146 cells per test sample depending on the categories and is equal to 1,018 for all categories combined. The VIDAS LMO2 method and the reference method showed similar LODs values for the detection of *Listeria monocytogenes* in the categories tested.

- **Inclusivity and exclusivity study**

The method is satisfactory, all strains of *Listeria monocytogenes* have been detected and no cross-reaction has been observed with the non-target strains.

4. Interlaboratory study

4.1. Organization of the interlaboratory study

A validation extension was obtained in December 2006 following the completion of the interlaboratory study in accordance with the EN ISO 16140 standard in force.

The interlaboratory study was realized by the expert laboratory and sixteen participating laboratories.

4.2. Experimental parameters

- Matrix: pasteurized milk
- Strain: *Listeria monocytogenes* L32 (origin "Raw milk cheese").
- Number of samples per laboratory: 24 samples per method were prepared to represent 3 levels of contamination, with 8 samples per level.

4.3. Control of the experimental parameters

4.3.1. Samples preparation and spiking

The following table shows the contamination rates obtained and the estimated accuracies:

Table 15: contamination levels

| Level | Samples | Targeted theoretical level (CFU/25 g) | Real level (CFU/25 g) |
|-----------------|----------------------|---------------------------------------|-----------------------|
| Level 0 (L0) | 6-7-8-14-15-19-20-21 | 0 | 0 |
| Low level (L1) | 1-2-9-1011-16-22-23 | 3 | 4.5 |
| High level (L2) | 3-4-5-12-13-17-18-24 | 30 | 46.6 |

4.3.2. Temperature and state of the samples

The measured temperatures are listed in the table 16.

Table 16: temperature measurements

| Laboratory | Temperature at reception | | Comments |
|------------|--------------------------------|-----------------------------------|---------------|
| | Communicated by the laboratory | Measured by the temperature probe | |
| A | 4,0°C | 4,4°C | / |
| B | / | 12,4°C | Receipt at D2 |
| C | / | 12,4°C | Receipt at D2 |
| D | 2,5°C | 1,4°C | / |
| E | 6,5°C | 5,9°C | / |
| F | 4,3°C | 5,0°C | / |
| G | 4,0°C | 3,4°C | / |
| H | 6,2°C | 4,4°C | / |
| I | 6,5°C | 3,9°C | / |
| J | 7,1°C | 6,0°C | / |
| K | 8,5°C | 7,9°C | / |
| L | 6,6°C | 3,9°C | / |
| M | 5,5°C | 5,9°C | / |
| N | 4,4°C | 4,9°C | / |
| O | 5,7°C | 6,0°C | / |
| P | 7,8°C | 7,5°C | / |

Fourteen of the 16 laboratories received their samples the day after they were sent (B and C received at D2).

4.4. Results

Fourteen (14) laboratories among the 16 laboratories selected were finally retained for the study (exclusion of laboratories B and C).

4.4.1. Total viable counts

For the whole laboratories, the total viable counts at 30°C varied between 1.6×10^4 CFU/g and 7.3×10^8 CFU/ml.

4.4.2. Expert laboratory results

The results obtained by the expert laboratory are summarized in table 17 (raw results in appendix G).

Table 17 : positive results obtained by expert laboratory by both methods

| Contamination level | Alternative method | Reference method |
|---------------------|--------------------|------------------|
| L0 | 0/8 | 0/8 |
| L1 | 8/8 | 8/8 |
| L2 | 8/8 | 8/8 |

The results are consistent with those expected.

4.4.3. Collaborators results

The results (number of positive samples/number of tested samples) are summarized in tables 18 and 19. Raw results are presented in appendix G.

- Reference method results

Table 18 : results for all laboratories (bc: before contamination, ac: after contamination)

| Alternative method | | | | | | | Reference method | | | |
|--------------------|--------------|--------------|----------------|----------------|----------------|----------------|------------------|--------------|----------------|----------------|
| LAB | L0 | | L1 | | L2 | | LAB | L0 | L1 | L2 |
| | bc | ac | bc | ac | bc | ac | | | | |
| A | 0/8 | 0/8 | 8/8 | 8/8 | 8/8 | 8/8 | A | 0/8 | 8/8 | 8/8 |
| D | 0/8 | 0/8 | 8/8 | 8/8 | 8/8 | 8/8 | D | 0/8 | 8/8 | 8/8 |
| E | 0/8 | 0/8 | 8/8 | 8/8 | 8/8 | 8/8 | E | 0/8 | 8/8 | 8/8 |
| F | 0/8 | 0/8 | 4/4 | 4/4 | 8/8 | 8/8 | F | 0/8 | 4/4 | 8/8 |
| G | 0/8 | 0/8 | 8/8 | 8/8 | 8/8 | 8/8 | G | 0/8 | 8/8 | 8/8 |
| H | 0/8 | 0/8 | 8/8 | 8/8 | 8/8 | 8/8 | H | 0/8 | 8/8 | 8/8 |
| I | 0/8 | 0/8 | 8/8 | 8/8 | 8/8 | 8/8 | I | 0/8 | 8/8 | 8/8 |
| J | 0/8 | 0/8 | 8/8 | 8/8 | 8/8 | 8/8 | J | 0/8 | 8/8 | 8/8 |
| K | 0/8 | 0/8 | 8/8 | 8/8 | 8/8 | 8/8 | K | 0/8 | 8/8 | 8/8 |
| L | 0/8 | 0/8 | 8/8 | 8/8 | 8/8 | 8/8 | L | 0/8 | 8/8 | 8/8 |
| M | 0/8 | 0/8 | 8/8 | 8/8 | 8/8 | 8/8 | M | 0/8 | 8/8 | 8/8 |
| N | 0/8 | 0/8 | 8/8 | 8/8 | 8/8 | 8/8 | N | 0/8 | 8/8 | 8/8 |
| O | 0/8 | 0/8 | 8/8 | 8/8 | 8/8 | 8/8 | O | 0/8 | 8/8 | 8/8 |
| P | 0/8 | 0/8 | 8/8 | 8/8 | 8/8 | 8/8 | P | 0/8 | 8/8 | 8/8 |
| Total | 0/112 | 0/112 | 108/108 | 108/108 | 112/112 | 112/112 | Total | 0/112 | 108/108 | 112/112 |

4.4.4. Analysis of the results and collaborators selected for the statistical analysis

Laboratory F was excluded from the final statistical analysis of the results, as four samples had not been analyzed owing to leaks. The results of 13 laboratories were considered (table 14).

Table 19 : results kept for statistical analysis (bc: before contamination, ac: after contamination)

| Alternative method | | | | | | | Reference method | | | |
|--------------------|--------------|--------------|----------------|----------------|----------------|----------------|------------------|--------------|----------------|----------------|
| LAB | L0 | | L1 | | L2 | | LAB | L0 | L1 | L2 |
| | bc | ac | bc | ac | bc | ac | | | | |
| A | 0/8 | 0/8 | 8/8 | 8/8 | 8/8 | 8/8 | A | 0/8 | 8/8 | 8/8 |
| D | 0/8 | 0/8 | 8/8 | 8/8 | 8/8 | 8/8 | D | 0/8 | 8/8 | 8/8 |
| E | 0/8 | 0/8 | 8/8 | 8/8 | 8/8 | 8/8 | E | 0/8 | 8/8 | 8/8 |
| G | 0/8 | 0/8 | 8/8 | 8/8 | 8/8 | 8/8 | G | 0/8 | 8/8 | 8/8 |
| H | 0/8 | 0/8 | 8/8 | 8/8 | 8/8 | 8/8 | H | 0/8 | 8/8 | 8/8 |
| I | 0/8 | 0/8 | 8/8 | 8/8 | 8/8 | 8/8 | I | 0/8 | 8/8 | 8/8 |
| J | 0/8 | 0/8 | 8/8 | 8/8 | 8/8 | 8/8 | J | 0/8 | 8/8 | 8/8 |
| K | 0/8 | 0/8 | 8/8 | 8/8 | 8/8 | 8/8 | K | 0/8 | 8/8 | 8/8 |
| L | 0/8 | 0/8 | 8/8 | 8/8 | 8/8 | 8/8 | L | 0/8 | 8/8 | 8/8 |
| M | 0/8 | 0/8 | 8/8 | 8/8 | 8/8 | 8/8 | M | 0/8 | 8/8 | 8/8 |
| N | 0/8 | 0/8 | 8/8 | 8/8 | 8/8 | 8/8 | N | 0/8 | 8/8 | 8/8 |
| O | 0/8 | 0/8 | 8/8 | 8/8 | 8/8 | 8/8 | O | 0/8 | 8/8 | 8/8 |
| P | 0/8 | 0/8 | 8/8 | 8/8 | 8/8 | 8/8 | P | 0/8 | 8/8 | 8/8 |
| Total | 0/104 | 0/104 | 104/104 | 104/104 | 104/104 | 104/104 | Total | 0/104 | 104/104 | 104/104 |

4.5. Interpretation of the results and statistical analysis

4.5.1. Interpretation of the results

The interpretation of the results is shown in the table below.

Table 20 : tests results for both methods (PA: positive agreement, NA: negative agreement, ND: negative deviation, PD: positive deviation)

| Level | Alternative method (AM) | Reference method (RM) | | |
|-------|-------------------------|-------------------------------|---------------------------------|------------|
| | | RM+ | RM- | Total |
| L0 | AM+ | PA= 0 | PD= 0 | 0 |
| | AM- | ND= 0 including PPND= 0 | NA= 104 including PPNA= 0 | 104 |
| | Total | 0 | 104 | 104 |
| L1 | AM+ | PA= 104 | PD= 0 | 104 |
| | AM- | ND= 0 including PPND= 0 | NA= 0 including PPNA= 0 | 0 |
| | Total | 104 | 0 | 104 |
| L2 | AM+ | PA= 104 | PD= 0 | 104 |
| | AM- | ND= 0 including PPND= 0 | NA= 0 including PPNA= 0 | 0 |
| | Total | 104 | 0 | 104 |

4.5.2. Specificity of the methods

The percentage specificity of the reference method and the alternative method is calculated using the data after confirmation, based on the results of level L₀.

- Specificity of the reference method: $SP_{ref} = \left[1 - \left(\frac{P_0}{N_-} \right) \right] \times 100\% = 100.0\%$,

- Specificity of the alternative method: $SP_{alt} = \left[1 - \left(\frac{CP_0}{N_-} \right) \right] \times 100\% = 100.0\%$,

where:

N_- is the number of all L₀ tests;

P_0 is the total number of false-positive results obtained with the blank samples before confirmation;

CP_0 is the total number of false-positive results obtained with blank samples.

4.5.3. Sensitivity of the two methods, relative trueness and false positive ratio of the alternative method

The sensitivity of the two methods, the relative trueness of the alternative method and the false positive ratio of the two methods are calculated. Results are presented in the table 21.

Table 21: summary of the sensitivity study results for all the categories of the application scope

| Parameter | ISO 16140-2 formulas | Results for L1 and for L2 |
|---------------------------------------|---|---------------------------|
| Sensitivity of the alternative method | $SE_{alt} = \frac{(PA + PD)}{(PA + ND + PD)} \times 100 \%$ | 100.0% |
| Sensitivity of the reference method | $SE_{ref} = \frac{(PA + ND)}{(PA + ND + PD)} \times 100 \%$ | 100.0% |
| Relative trueness | $RT = \frac{(PA + NA)}{N} \times 100 \%$ | 100.0% |
| False positive ratio | $FPR = \frac{FP}{NA} \times 100 \%$ | 0% |

4.5.4. Determination of the acceptability limit and conclusion

No fractional recovery was obtained for the level L1 and L2. That is why the difference between (ND – PD) and the addition (ND + PD) were calculated for the level L1 and the level L2. The observed value found for (ND – PD) and (ND+PD) shall not be higher than the acceptability limit (AL). Results are shown in the table 22.

Table 22: acceptability limits

| Level | N _{lab} | (ND-PD) | (ND+PD) | Acceptability limit (AL) |
|-------|------------------|---------|---------|---|
| L1 | 13 | 0 | 0 | (ND – PD) _{AL=4} ; (ND + PD) _{AL=5} |
| L2 | 13 | 0 | 0 | (ND – PD) _{AL=4} ; (ND + PD) _{AL=5} |

The values (ND-PD) and (ND+PD) for the level L1 and L2 are inferior to the AL, so the requirements of the standard ISO 16140-2 : 2016 are fulfilled.

The performance of the alternative method and the reference method can be considered as equivalent.

4.5.5. Evaluation of the RLOD, LOD_{50%} and LOD_{95%}

The evaluation of the RLOD between laboratories could not be determined using the Annex F of ISO 16140-2:2016 and using the Excel spreadsheet available at http://standards.iso.org/iso/16140 - RLOD_inter-lab-study_16140-2_AnnexF_ver1_28-06-2017.

Calculation of LOD_{50%} and LOD_{95%} are not possible because every sample at level 1 was positive for VIDAS LMO2 method.

5. General conclusion

- Method comparison study

The performance of the VIDAS LMO2 test is comparable to that of the standard ISO 11290-1 : 2017.

This study concerned 490 samples of seven categories of products.

Values obtained for the criteria of the sensitivity study are the following, depending on the incubation times and the protocol of confirmation:

- sensitivity of the alternative method : 95.4%
- sensitivity of the reference method : 90.8%
- relative trueness: 88.6%
- false positive ratio: from 0.8%

Some discordant results were observed. For categories ① at ⑤, the first enrichment in half-Fraser is identical for the two methods, however time and temperature applied for the second enrichment in Fraser, are different between the two methods. That could be explain the discordant results observed. For categories ⑥ and ⑦, the unpaired study design is probably the source of the discordant results observed.

The relative level of detection of the alternative method and the reference method was evaluated for all categories. The results are comparable between the two methods. It varies between 1.000 and 1.146 CFU per test portion for the alternative method for all categories.

The specificity of the method is satisfactory.

The study of the practicability of the alternative method shows a simple and easy-to-use method and significant time savings compared to the reference method.

- Interlaboratory study

Concerning the interlaboratory study, the results obtained for the selected laboratories showed that the performance of the alternative method and the reference method can be considered as equivalent.

The data and the interpretation of the methods comparison study and of the interlaboratory study fulfill the requirements of the standard EN ISO 16140-2:2016. The VIDAS LMO2 method is considered as equivalent to the standard EN ISO 11290-1:2017.

Le Lion d'Angers, June 21th , 2022.
François Le Nestour
Head of the Microbiology Department



APPENDICES

APPENDIX A
ALTERNATIVE METHOD PROTOCOL

VIDAS LMO2 - General protocol

Primary enrichment :

X g of sample + 9 X mL of half-Fraser broth

Example: 1 swab into 10 mL,

1 sponge into 100 mL, 1 wipe into 225 mL



Incubation 24-26h at 30±1°C

Secondary enrichment :

1mL enriched primary broth

+

10 mL of FRASER broth



Incubation 24-26h at 30±1°C

Possibility to store the broth at 2-8°C for:

- 24 hours (VIDAS testing)
- 48 hours (confirmation)

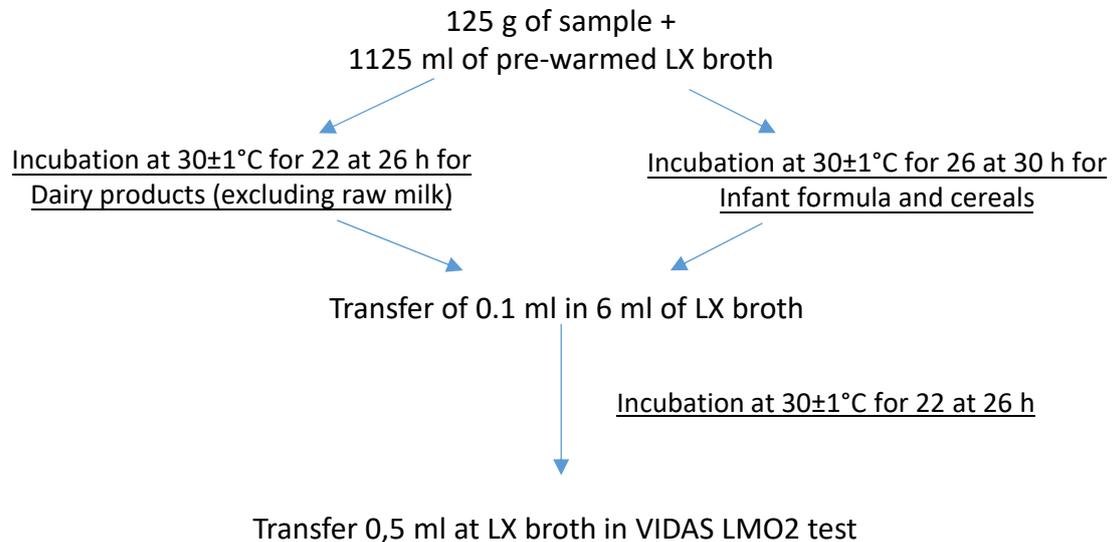


VIDAS LMO2

Confirmation of positive results :

- On PALCAM or Oxford: the characteristic colonies are confirmed using the tests set out in the methods standardized by CEN or ISO,
- On a chromogenic agar according to Ottaviani Agosti: the presence of typical *Listeria monocytogenes* colonies is sufficient to confirm the VIDAS LMO2 result.

APPENDIX A
VIDAS LMO2 method – News protocols



Confirmation at positive result

Streaking on agar *Listeria* according to Ottaviani and Agosti and PALCAM or OXFORD agar the LX broth



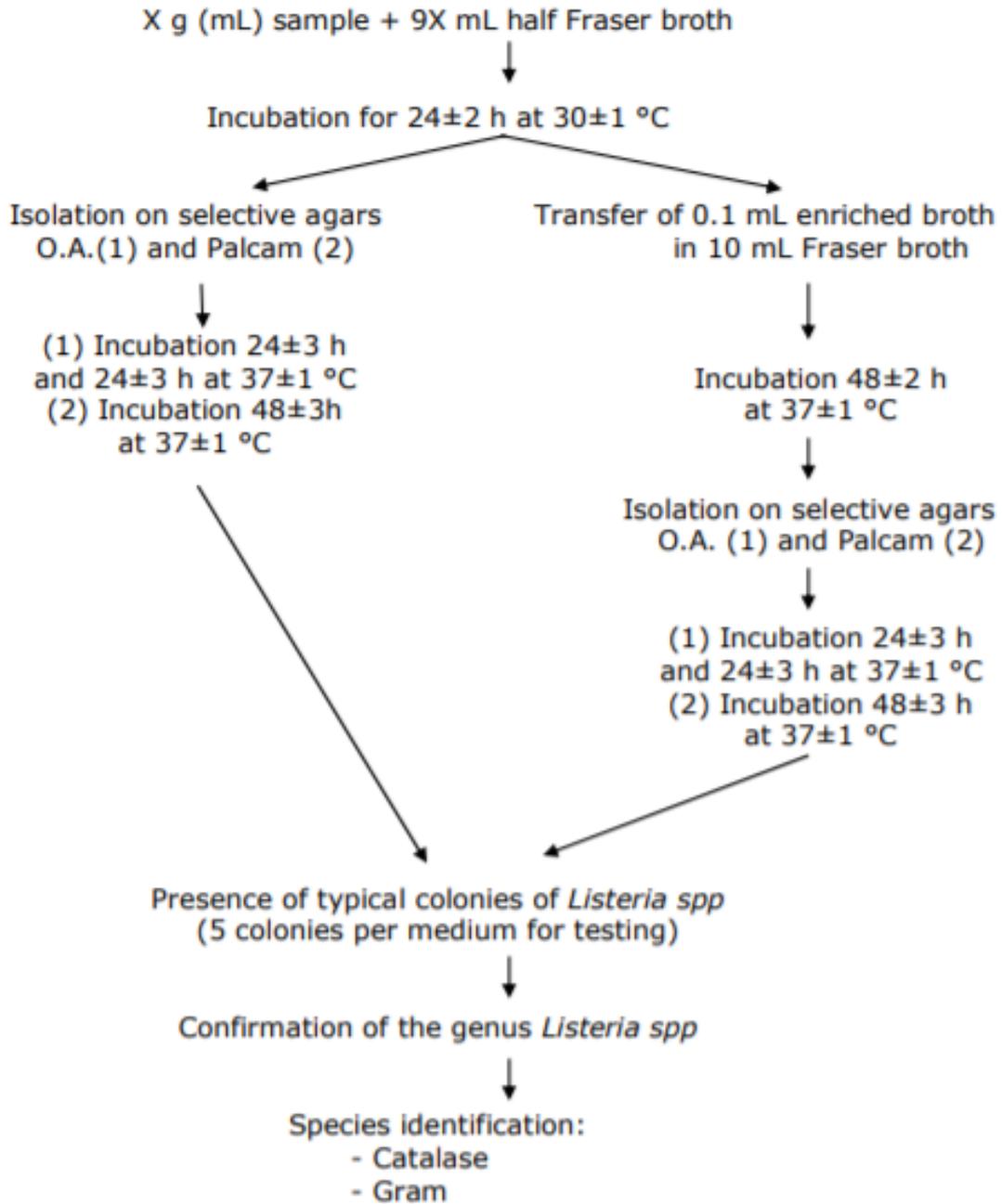
Incubation at 37±1°C for 24±2 h and for 24±2 h

Typical colonies confirmed:

- by the confirmation tests of the ISO 11290-1/A1 method, including the purification step,
- the presence of typical colonies after isolation of the enrichment broth on chromogenic agar certified NF VALIDATION is sufficient to confirm the presence of *L. monocytogenes*.

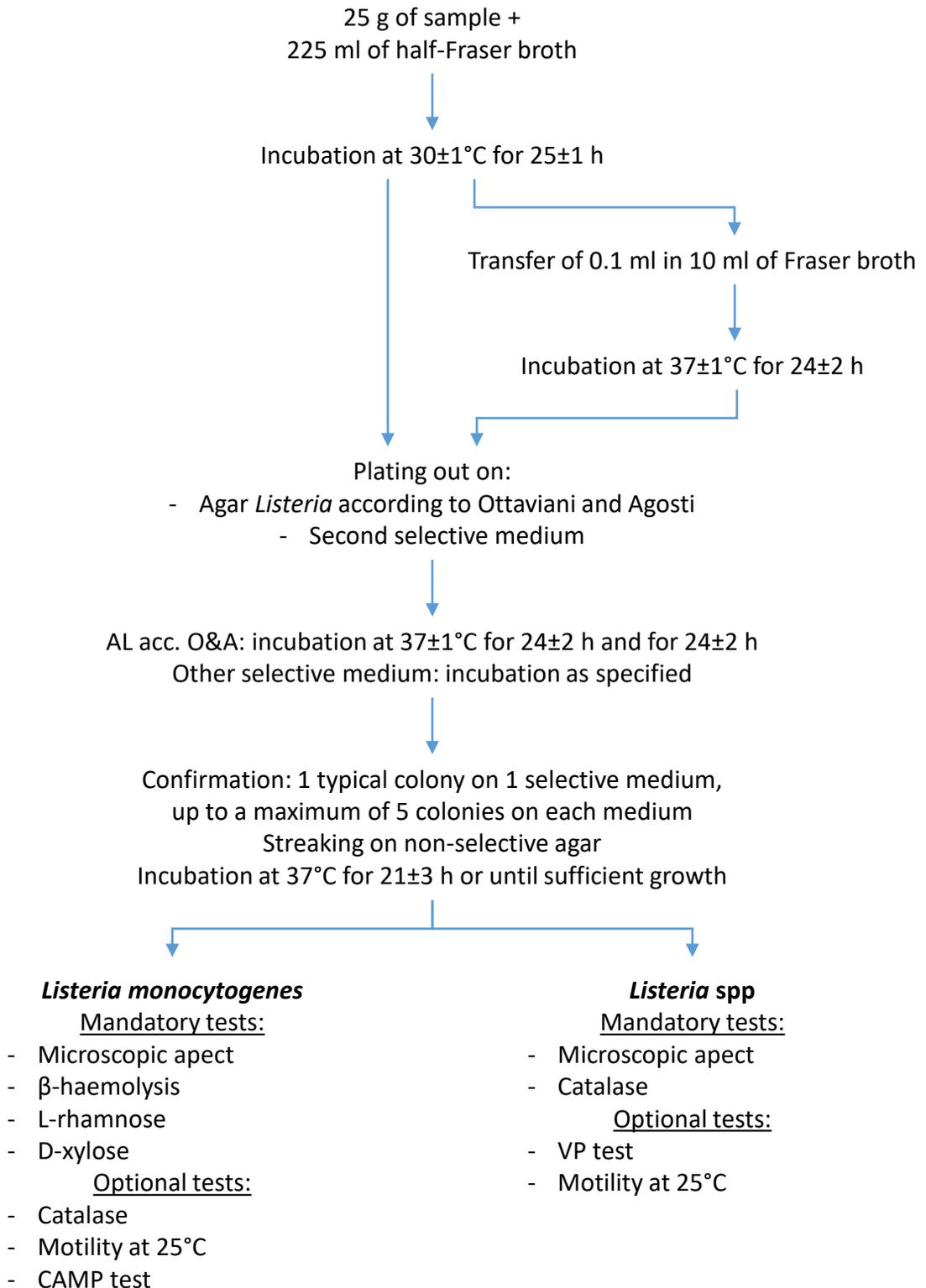
APPENDIX B : Protocol of the reference method

EN ISO 11290-1/A1 : 2005



APPENDIX B
EN ISO 11290-1:2017

Diagram of the procedure as described in the standard



Appendix C - Artificial contaminations

| Category | Type | Sample number | Sample | Code strain | Strain | Origin | Protocol of stress | Inoculation level (CFU/25g) | Global result | |
|---------------|----------------|-----------------------------------|--|--------------------------|-----------------------------|--|--|---|---------------|---|
| Meat products | m1 | M1 | Kidneys in Madeira sauce | L44 | <i>L. mono ½ a</i> | Dried sausage | Spiking - 50 min at 55°C, 35 min at -80°C | 7,2 | + | |
| | m1 | M2 | Pork spring rolls | L44 | <i>L. mono ½ a</i> | Dried sausage | Spiking - 50 min at 55°C, 35 min at -80°C | 4,5 | + | |
| | m1 | M3 | Chicken wings | L44 | <i>L. mono ½ a</i> | Dried sausage | Spiking - 50 min at 55°C, 35 min at -80°C | 2,7 | + | |
| | m1 | M6 | Breaded meat stuffed with cheese | L44 | <i>L. mono ½ a</i> | Dried sausage | Spiking - 50 min at 55°C, 35 min at -80°C | 4,5 | + | |
| | m1 | M7 | Sautéed pork with sauce | L44 | <i>L. mono ½ a</i> | Dried sausage | Spiking - 50 min at 55°C, 35 min at -80°C | 2,7 | + | |
| | m1 | N1 | Basque-style chicken | L10 | <i>L. mono ½ a</i> | Rillettes | Spiking - 50 min at 55°C, 35 min at -80°C | 12,3 | + | |
| | m1 | N2 | Meat with bolognese sauce | L10 | <i>L. mono ½ a</i> | Rillettes | Spiking - 50 min at 55°C, 35 min at -80°C | 9,8 | + | |
| | m1 | 1 | Chicken baked with vegetable | LIS.4.27 | <i>L. mono ½ a</i> | Ground beef | Seeding - 48h at 5±3 °C | 2.4 | + | |
| | m1 | 3 | Beef with potatoes | LIS.4.27 | <i>L. mono ½ a</i> | Ground beef | Seeding - 48h at 5±3 °C | 2.4 | + | |
| | m2 | M4 | Blood sausage | L44 | <i>L. mono ½ a</i> | Dried sausage | Spiking - 50 min at 55°C, 35 min at -80°C | 4,5 | - | |
| | m2 | M5 | Rillettes | L44 | <i>L. mono ½ a</i> | Dried sausage | Spiking - 50 min at 55°C, 35 min at -80°C | 7,2 | + | |
| | m2 | M30 | Sausages | L44 | <i>L. mono ½ a</i> | Dried sausage | Spiking - 50 min at 55°C, 35 min at -80°C | 4,5 | + | |
| | m2 | N3 | Cooked merguez sausage | L10 | <i>L. mono ½ a</i> | Rillettes | Spiking - 50 min at 55°C, 35 min at -80°C | 9,8 | + | |
| | m2 | N4 | Rillettes | L10 | <i>L. mono ½ a</i> | Rillettes | Spiking - 50 min at 55°C, 35 min at -80°C | 6,2 | + | |
| | m2 | O10 | Frankfurter sausage | L15 | <i>L. mono ½ c</i> | Beef | Spiking - 50 min at 55°C, 35 min at -80°C | 16,8 | + | |
| | m2 | O11 | Cervelas sausage | L15 | <i>L. mono ½ c</i> | Beef | Spiking - 50 min at 55°C, 35 min at -80°C | 12,6 | + | |
| | m2 | O12 | Cervelas sausage with mustard | L49 | <i>L. mono ½ b</i> | Chicken liver mousse | Spiking - 50 min at 55°C, 35 min at -80°C | 1,2 | + | |
| | m2 | O13 | Alsace sausage | L49 | <i>L. mono ½ b</i> | Chicken liver mousse | Spiking - 50 min at 55°C, 35 min at -80°C | 0,8 | - | |
| | Dairy products | d1 | K11 | Brie cheese | L62 | <i>L. mono</i> | Reblochon cheese | Spiking - 50 min at 55°C, 35 min at -80°C | 3.2 | + |
| | | d1 | K14 | Slices of Holland cheese | L62 | <i>L. mono</i> | Reblochon cheese | Spiking - 50 min at 55°C, 35 min at -80°C | 2 | - |
| d1 | | M22 | Pasteurized St Nectaire cheese | L62 | <i>L. mono</i> | Reblochon cheese | Spiking - 50 min at 55°C, 35 min at -80°C | 0.2 | - | |
| d1 | | M23 | Young Gouda cheese | L62 | <i>L. mono</i> | Reblochon cheese | Spiking - 50 min at 55°C, 35 min at -80°C | 0.3 | - | |
| d1 | | O15 | Pasteurized St Nectaire cheese | L62 | <i>L. mono</i> | Reblochon cheese | Spiking - 50 min at 55°C, 35 min at -80°C | 4.5 | + | |
| d1 | | O16 | Mimolette cheese | L7 | <i>L. mono ½ a</i> | Munster cheese rind | Spiking - 50 min at 55°C, 35 min at -80°C | 11.2 | + | |
| d1 | | O17 | Époisses cheese | L62 | <i>L. mono</i> | Reblochon cheese | Spiking - 50 min at 55°C, 35 min at -80°C | 2.7 | + | |
| d1 | | P5 | Pasteurized Tomme cheese | L18 | <i>L. mono ½ c</i> | Munster cheese rind | Spiking - 24 hrs at 4°C, 50 min at 55°C, 30 min at -80°C | 11 | - | |
| d1 | | P6 | Brin de paille cheese | L51 | / | / | / | ND | - | |
| d1 | | P7 | Époisses cheese | L51 | / | / | / | ND | - | |
| d1 | Q3 | Pasteurized brie cheese | L32 | <i>L. mono 4b</i> | Munster cheese rind | Spiking - 24 hrs at 4°C, 50 min at 55°C, 30 min at -80°C | <1 | - | | |
| d1 | Q4 | Camembert | L32 | <i>L. mono 4b</i> | Munster cheese rind | Spiking - 24 hrs at 4°C, 50 min at 55°C, 30 min at -80°C | <1 | - | | |
| d1 | R1 | Carré de l'Est cheese | L62 | <i>L. mono</i> | Reblochon cheese | Spiking - 50 min at 55°C, 35 min at -80°C | 6.4 | - | | |
| d1 | R2 | Brie cheese | L18 | <i>L. mono ½ c</i> | Munster cheese rind | Spiking - 50 min at 55°C, 35 min at -80°C | 0.2 | - | | |
| d1 | R3 | Époisses cheese | L18 | <i>L. mono ½ c</i> | Munster cheese rind | Spiking - 50 min at 55°C, 35 min at -80°C | 0.3 | - | | |
| d1 | R7 | Camembert | mixture with naturally contaminated raw milk | | | | | | - | |
| d1 | R8 | Époisses cheese | mixture with naturally contaminated raw milk | | | | | | - | |
| d1 | S2 | Camembert | L37 | <i>L. mono ½ b</i> | Maroilles cheese (raw milk) | Spiking - 50 min at 55°C, 35 min at -80°C | 4 | + | | |
| d1 | S3 | Munster cheese (pasteurized milk) | L32 | <i>L. mono 4b</i> | Munster cheese rind | Spiking - 50 min at 55°C, 35 min at -80°C | 7.6 | + | | |
| d1 | 9 | Cow cheese | LIS .4.23 | <i>L. mono ½ a</i> | Fresh cheese | Seeding - 48h at 5±3 °C | 2.0 | + | | |
| d1 | 11 | Cow cheese | LIS .4.23 | <i>L. mono ½ a</i> | Fresh cheese | Seeding - 48h at 5±3 °C | 2.0 | + | | |

Appendix C - Artificial contaminations

| Category | Type | Sample number | Sample | Code strain | Strain | Origin | Protocol of stress | Inoculation level (CFU/25g) | Global result | |
|------------------|------|---------------------|-------------------------------|---|---------------------|---|--|-----------------------------|---------------|---|
| Dairy products | d1 | 13 | Saint Nectaire | LIS.4.23 | <i>L. mono</i> ½ a | Fresh cheese | Seeding - 48h at 5±3 °C | 2.0 | + | |
| | d2 | J1 | Pasteurized goat's cheese | L7 | <i>L. mono</i> ½ a | Munster cheese rind | Spiking - 50 min at 55°C, 35 min at -80°C | 0.2 | - | |
| | d2 | J2 | Petit Billy goat's cheese | L37 | <i>L. mono</i> ½ b | Maroilles cheese made with raw milk | Spiking - 50 min at 55°C, 35 min at -80°C | 0.9 | - | |
| | d2 | J3 | Etorki cheese | L62 | <i>L. mono</i> | Reblochon cheese | Spiking - 50 min at 55°C, 35 min at -80°C | 2.6 | + | |
| | d2 | K17 | Pasteurized goat's cheese log | L62 | <i>L. mono</i> | Reblochon cheese | Spiking - 50 min at 55°C, 35 min at -80°C | 3.2 | + | |
| | d2 | M24 | Pasteurized goat's cheese log | L62 | <i>L. mono</i> | Reblochon cheese | Spiking - 50 min at 55°C, 35 min at -80°C | 0.3 | - | |
| | d2 | O18 | Petit Billy goat's cheese | L62 | <i>L. mono</i> | Reblochon cheese | Spiking - 50 min at 55°C, 35 min at -80°C | 2.7 | + | |
| | d2 | O20 | Goat's cream cheese | L62 | <i>L. mono</i> | Reblochon cheese | Spiking - 50 min at 55°C, 35 min at -80°C | 3.6 | + | |
| | d2 | P8 | Limousin goat's cheese | L18 | <i>L. mono</i> ½ c | Munster cheese rind | Spiking - 24 hrs at 4°C, 50 min at 55°C, 30 min at -80°C | 8.3 | - | |
| | d2 | P9 | Pasteurized goat's cheese log | L18 | <i>L. mono</i> ½ c | Munster cheese rind | Spiking - 24 hrs at 4°C, 50 min at 55°C, 30 min at -80°C | 5.5 | - | |
| | d2 | P10 | Pasteurized goat's cheese log | L51 | <i>L. mono</i> ½ b | Matured Germain cheese | Spiking - 24 hrs at 4°C, 50 min at 55°C, 30 min at -80°C | ND | - | |
| | d2 | P11 | Petit Billy goat's cheese | L51 | <i>L. mono</i> ½ b | Matured Germain cheese | Spiking - 24 hrs at 4°C, 50 min at 55°C, 30 min at -80°C | ND | - | |
| | d2 | Q1 | Pasteurized goat's cheese log | L32 | <i>L. mono</i> 4b | Munster cheese rind | Spiking - 24 hrs at 4°C, 50 min at 55°C, 30 min at -80°C | <1 | - | |
| | d2 | Q2 | Pasteurized goat's cheese log | L32 | <i>L. mono</i> 4b | Munster cheese rind | Spiking - 24 hrs at 4°C, 50 min at 55°C, 30 min at -80°C | <1 | - | |
| | d2 | R4 | Petit Billy goat's cheese | L18 | <i>L. mono</i> ½ c | Munster cheese rind | Spiking - 50 min at 55°C, 35 min at -80°C | 0.2 | - | |
| | d2 | R5 | Pasteurized goat's cheese log | L62 | <i>L. mono</i> | Reblochon cheese | Spiking - 50 min at 55°C, 35 min at -80°C | 6.4 | - | |
| | d2 | R6 | Pasteurized goat's cheese | L18 | <i>L. mono</i> ½ c | Munster cheese rind | Spiking - 50 min at 55°C, 35 min at -80°C | 0.2 | - | |
| | d2 | R9 | Petit Billy goat's cheese | mixture with naturally contaminated raw milk | | | | | | - |
| | d2 | R10 | Chabichou goat's cheese | mixture with naturally contaminated raw milk | | | | | | + |
| | d2 | S5 | Chabichou goat's cheese | L37 | <i>L. mono</i> ½ b | Maroilles cheese (raw milk) | Spiking - 50 min at 55°C, 35 min at -80°C | 4.0 | + | |
| | d2 | S6 | St Maure cheese | L32 | <i>L. mono</i> 4b | Munster cheese rind | Spiking - 50 min at 55°C, 35 min at -80°C | 11.4 | + | |
| | d2 | S7 | Pasteurized goat's cheese | L32 | <i>L. mono</i> 4b | Munster cheese rind | Spiking - 50 min at 55°C, 35 min at -80°C | 7.6 | + | |
| | d2 | 15 | Goat cheese | LIS.4.59 | <i>L. mono</i> | Goat raw milk | Seeding - 48h at 5±3 °C | 2.4 | + | |
| | d2 | 17 | Ewe cheese | LIS.4.59 | <i>L. mono</i> | Goat raw milk | Seeding - 48h at 5±3 °C | 2.4 | + | |
| | d3 | K5 | Pasteurized milk | L37 | <i>L. mono</i> ½ b | Maroilles cheese | Spiking - 50 min at 55°C, 35 min at -80°C | 20,6 | + | |
| | d3 | K6 | Pasteurized milk | L62 | <i>L. mono</i> | Reblochon cheese | Spiking - 50 min at 55°C, 35 min at -80°C | 3,2 | + | |
| | d3 | K9 | Milk powder | L62 | <i>L. mono</i> | Reblochon cheese | Spiking - 50 min at 55°C, 35 min at -80°C | 4,0 | + | |
| | d3 | L12 | Pasteurized milk | mixture with naturally contaminated Chantilly cream | | | | | | + |
| d3 | M20 | Pasteurized milk | L62 | <i>L. mono</i> | Reblochon cheese | Spiking - 50 min at 55°C, 35 min at -80°C | 0,2 | - | | |
| d3 | M21 | Pasteurized milk | L62 | <i>L. mono</i> | Reblochon cheese | Spiking - 50 min at 55°C, 35 min at -80°C | 0,1 | - | | |
| d3 | O21 | Egg custard pie | L7 | <i>L. mono</i> ½ a | Munster cheese rind | Spiking - 50 min at 55°C, 35 min at -80°C | 7,0 | + | | |
| d3 | 19 | Skimmed milk powder | LIS.4.32 | <i>L. mono</i> ½ b | Raw milk | Seeding - 48h at 5±3 °C | 2.2 | + | | |
| d3 | 21 | Skimmed UHT milk | LIS.4.32 | <i>L. mono</i> ½ b | Raw milk | Seeding - 48h at 5±3 °C | 2.2 | + | | |
| Seafood products | s1 | M12 | Ray wing | L5 | <i>L. mono</i> ½ a | Smoked salmon lardons | Spiking - 50 min at 55°C, 35 min at -80°C | 8,0 | + | |
| | s1 | M16 | Shrimps | L5 | <i>L. mono</i> ½ a | Smoked salmon lardons | Spiking - 50 min at 55°C, 35 min at -80°C | 8,0 | + | |
| | s1 | M17 | Whelks | L5 | <i>L. mono</i> ½ a | Smoked salmon lardons | Spiking - 50 min at 55°C, 35 min at -80°C | 5,0 | + | |
| | s1 | M18 | Crab claws | L5 | <i>L. mono</i> ½ a | Smoked salmon lardons | Spiking - 50 min at 55°C, 35 min at -80°C | 3,0 | + | |
| | s1 | N5 | Crab | L116 | <i>L. mono</i> ½ a | Fish in cream sauce | Spiking - 50 min at 55°C, 35 min at -80°C | 3,1 | + | |
| | s1 | N6 | Shrimp | L124 | <i>L. mono</i> | Fillet of perch | Spiking - 50 min at 55°C, 35 min at -80°C | 6,0 | + | |
| | s1 | N14 | Lobster | L116 | <i>L. mono</i> ½ a | Fish in cream sauce | Spiking - 50 min at 55°C, 35 min at -80°C | 4,3 | + | |
| | s1 | N15 | Sea snails | L124 | <i>L. mono</i> | Fillet of perch | Spiking - 50 min at 55°C, 35 min at -80°C | 7,5 | + | |
| | s1 | O1 | Cooked whelks | L20 | <i>L. mono</i> ½ | Smoked salmon offcuts | Spiking - 50 min at 55°C, 35 min at -80°C | 1,4 | - | |
| | s1 | O2 | Shrimp | L20 | <i>L. mono</i> ½ | Smoked salmon offcuts | Spiking - 50 min at 55°C, 35 min at -80°C | 1,1 | - | |
| | s1 | Q5 | Shrimps | L12 | <i>L. mono</i> ½ a | Smoked salmon | Spiking - 24 hrs at 4°C, 50 min at 55°C, 30 min at -80°C | 0,4 | - | |
| | s1 | Q6 | Shrimps | L12 | <i>L. mono</i> ½ a | Smoked salmon | Spiking - 24 hrs at 4°C, 50 min at 55°C, 30 min at -80°C | 0,3 | - | |

Appendix C - Artificial contaminations

| Category | Type | Sample number | Sample | Code strain | Strain | Origin | Protocol of stress | Inoculation level (CFU/25g) | Global result | |
|------------------|------|--------------------------|------------------------------------|--|--------------------------------|---|--|-----------------------------|---------------|---|
| Seafood products | s1 | R13 | Vacuum-packed crayfish tails | L12 | <i>L. mono ½ a</i> | Smoked salmon | Spiking - 50 min at 55°C, 35 min at -80°C | 0,5 | - | |
| | s1 | R14 | Peeled shrimps | L12 | <i>L. mono ½ a</i> | Smoked salmon | Spiking - 50 min at 55°C, 35 min at -80°C | 0,8 | + | |
| | s1 | T2 | Crab | L20 | <i>L. mono ½</i> | Smoked salmon offcuts | Spiking - 50 min at 55°C, 35 min at -80°C | ND | - | |
| | s1 | T3 | Shrimps | L20 | <i>L. mono ½</i> | Smoked salmon offcuts | Spiking - 50 min at 55°C, 35 min at -80°C | ND | - | |
| | s2 | N11 | Salmon terrine | L116 | <i>L. mono ½ a</i> | Fish in cream sauce | Spiking - 50 min at 55°C, 35 min at -80°C | 3,1 | + | |
| | s2 | N12 | Crab terrine | L124 | <i>L. mono</i> | Fillet of perch | Spiking - 50 min at 55°C, 35 min at -80°C | 3,8 | + | |
| | s2 | O3 | Salmon terrine | L20 | <i>L. mono ½</i> | Smoked salmon offcuts | Spiking - 50 min at 55°C, 35 min at -80°C | 1,1 | - | |
| | s2 | O4 | Salmon terrine with pistachios | L20 | <i>L. mono ½</i> | Smoked salmon offcuts | Spiking - 50 min at 55°C, 35 min at -80°C | 0,8 | - | |
| | s2 | O5 | Tuna terrine | L20 | <i>L. mono ½ a</i> | Smoked salmon offcuts | Spiking - 50 min at 55°C, 35 min at -80°C | 0,7 | + | |
| | s2 | P1 | Potted seafood | L20 | <i>L. mono ½</i> | Smoked salmon offcuts | Spiking - 24 hrs at 4°C, 50 min at 55°C, 30 min at -80°C | 3,8 | - | |
| | s2 | P2 | Salmon terrine with crème fraîche | L20 | <i>L. mono ½ a</i> | Smoked salmon offcuts | Spiking - 24 hrs at 4°C, 50 min at 55°C, 30 min at -80°C | 3,8 | + | |
| | s2 | P3 | Salmon terrine with vegetables | L20 | <i>L. mono ½ a</i> | Smoked salmon offcuts | Spiking - 24 hrs at 4°C, 50 min at 55°C, 30 min at -80°C | 2,5 | + | |
| | s2 | Q7 | Salmon rillette | L12 | <i>L. mono ½ a</i> | Smoked salmon | Spiking - 24 hrs at 4°C, 50 min at 55°C, 30 min at -80°C | 0,2 | - | |
| | s2 | Q8 | Salmon terrine | L12 | <i>L. mono ½ a</i> | Smoked salmon | Spiking - 24 hrs at 4°C, 50 min at 55°C, 30 min at -80°C | 0,3 | + | |
| | s2 | R15 | Terrine of scallops | L12 | <i>L. mono ½ a</i> | Smoked salmon | Spiking - 50 min at 55°C, 35 min at -80°C | 0,4 | + | |
| | s3 | M13 | Salmon steak with sorrel sauce | L5 | <i>L. mono ½ a</i> | Smoked salmon lardons | Spiking - 50 min at 55°C, 35 min at -80°C | 5,0 | + | |
| | s3 | M14 | Waterzooi fish stew | L5 | <i>L. mono ½ a</i> | Smoked salmon lardons | Spiking - 50 min at 55°C, 35 min at -80°C | 5,0 | + | |
| | s3 | M15 | Salmon paupiette | L5 | <i>L. mono ½ a</i> | Smoked salmon lardons | Spiking - 50 min at 55°C, 35 min at -80°C | 3,0 | + | |
| | s3 | M25 | Scallops in cream sauce | L5 | <i>L. mono ½ a</i> | Smoked salmon lardons | Spiking - 50 min at 55°C, 35 min at -80°C | 5,0 | - | |
| | s3 | N7 | Scallops in bechamel cream sauce | L116 | <i>L. mono ½ a</i> | Fish in cream sauce | Spiking - 50 min at 55°C, 35 min at -80°C | 5,0 | - | |
| | s3 | N8 | Waterzooi fish stew | L116 | <i>L. mono ½ a</i> | Fish in cream sauce | Spiking - 50 min at 55°C, 35 min at -80°C | 3,1 | + | |
| | s3 | N9 | Curried fish kebab | L124 | <i>L. mono</i> | Fillet of perch | Spiking - 50 min at 55°C, 35 min at -80°C | 6,0 | + | |
| | s3 | N10 | Tuna salad | L124 | <i>L. mono</i> | Fillet of perch | Spiking - 50 min at 55°C, 35 min at -80°C | 7,5 | + | |
| | s3 | N13 | Fish tagine | L116 | <i>L. mono ½ a</i> | Fish in cream sauce | Spiking - 50 min at 55°C, 35 min at -80°C | 3,7 | + | |
| | s3 | O6 | Tuna mayonnaise | L20 | <i>L. mono ½</i> | Smoked salmon offcuts | Spiking - 50 min at 55°C, 35 min at -80°C | 1,1 | - | |
| | s3 | O7 | Seafood paella | L20 | <i>L. mono ½</i> | Smoked salmon offcuts | Spiking - 50 min at 55°C, 35 min at -80°C | 1,1 | + | |
| | s3 | P4 | Minced tuna with peppers | L20 | <i>L. mono ½</i> | Smoked salmon offcuts | Spiking - 24 hrs at 4°C, 50 min at 55°C, 30 min at -80°C | 5,0 | - | |
| s3 | R16 | Fish fillet with sauce | L12 | <i>L. mono ½ a</i> | Smoked salmon | Spiking - 50 min at 55°C, 35 min at -80°C | 0,5 | + | | |
| s3 | 27 | Salmon with sorrel sauce | LIS.4.83 | <i>L. mono</i> | Fish with lemon sauce and rice | Seeding - 48h at 5±3 °C | 2.6 | + | | |
| Vegetal products | v1 | O25 | Cooked potatoes | L47 | <i>L. mono ½ a</i> | Fried potatoes | Spiking - 50 min at 55°C, 35 min at -80°C | 0,7 | - | |
| | v1 | O26 | Frozen fries | L47 | <i>L. mono ½ a</i> | Fried potatoes | Spiking - 50 min at 55°C, 35 min at -80°C | 0,9 | - | |
| | v1 | R17 | Frozen fries | L125 | <i>L. mono</i> | Pan-fried vegetables | Spiking - 50 min at 55°C, 35 min at -80°C | ND | - | |
| | v1 | R20 | Fried potatoes | mixture with naturally contaminated rice | | | | | | + |
| | v1 | R21 | Frozen fries | mixture with naturally contaminated rice | | | | | | + |
| | v1 | S10 | Frozen fries | L58 | <i>L. mono 4b</i> | Salad | Spiking - 50 min at 55°C, 35 min at -80°C | 3,6 | + | |
| | v2 | N16 | Pan-fried Mediterranean vegetables | L125 | <i>L. mono</i> | Pan-fried vegetables | Spiking - 50 min at 55°C, 35 min at -80°C | 5,6 | + | |
| | v2 | N17 | Pan-fried mushrooms and vegetables | L125 | <i>L. mono</i> | Pan-fried vegetables | Spiking - 50 min at 55°C, 35 min at -80°C | 7,0 | - | |
| | v2 | N18 | Pan-fried Mediterranean vegetables | L129 | <i>L. mono ½ a</i> | Fried potatoes | Spiking - 50 min at 55°C, 35 min at -80°C | <1 | - | |
| | v2 | N19 | Mixed vegetables | L129 | <i>L. mono ½ a</i> | Fried potatoes | Spiking - 50 min at 55°C, 35 min at -80°C | <1 | - | |
| | v2 | N20 | Creamed spinach | L125 | <i>L. mono</i> | Pan-fried vegetables | Spiking - 50 min at 55°C, 35 min at -80°C | 7,0 | - | |
| | v2 | N23 | Courgette with provençal sauce | L129 | <i>L. mono ½ a</i> | Fried potatoes | Spiking - 50 min at 55°C, 35 min at -80°C | <1 | - | |
| | v2 | O23 | Pan-fried mushrooms and vegetables | L47 | <i>L. mono ½ a</i> | Fried potatoes | Spiking - 50 min at 55°C, 35 min at -80°C | 0,7 | - | |
| | v2 | P12 | Pan-fried mushrooms and vegetables | mixture with naturally contaminated rice | | | | | | + |
| | v2 | P16 | Pan-fried "Romaine" vegetables | L47 | <i>L. mono ½ a</i> | Fried potatoes | Spiking - 24 hrs at 4°C, 50 min at 55°C, 30 min at -80°C | 8,0 | + | |
| | v2 | P17 | Vegetables for casserole | mixture with naturally contaminated rice | | | | | | + |

Appendix C - Artificial contaminations

| Category | Type | Sample number | Sample | Code strain | Strain | Origin | Protocol of stress | Inoculation level (CFU/25g) | Global result |
|----------------------|------|-----------------------------|---------------------------------------|---------------------|---------------------|-------------------------|--|-----------------------------|---------------|
| Vegetal products | v2 | P18 | Diced mixed vegetables | | | | mixture with naturally contaminated rice | | + |
| | v2 | Q11 | Mixed vegetables | L58 | <i>L. mono 4b</i> | Salad | Spiking - 24 hrs at 4°C, 50 min at 55°C, 30 min at -80°C | 2,4 | - |
| | v2 | Q12 | Ratatouille | L58 | <i>L. mono 4b</i> | Salad | Spiking - 24 hrs at 4°C, 50 min at 55°C, 30 min at -80°C | 1,8 | - |
| | v2 | R22 | Ratatouille | | | | mixture with naturally contaminated rice | | + |
| | v2 | R23 | Mixed vegetables | | | | mixture with naturally contaminated rice | | + |
| | v2 | R25 | Provençal mixed vegetables | L125 | <i>L. mono</i> | Pan-fried vegetables | Spiking - 50 min at 55°C, 35 min at -80°C | ND | - |
| | v2 | R26 | Vichy carrots | L125 | <i>L. mono</i> | Pan-fried vegetables | Spiking - 50 min at 55°C, 35 min at -80°C | ND | - |
| | v2 | T4 | Zucchini | L129 | <i>L. mono ½ a</i> | Fried potatoes | Spiking - 50 min at 55°C, 35 min at -80°C | ND | - |
| | v3 | N21 | Saffron rice with baby vegetables | L125 | <i>L. mono</i> | Pan-fried vegetables | Spiking - 50 min at 55°C, 35 min at -80°C | 5,6 | - |
| | v3 | N22 | Creole rice | L125 | <i>L. mono</i> | Pan-fried vegetables | Spiking - 50 min at 55°C, 35 min at -80°C | 3,5 | + |
| | v3 | N24 | Green bean purée | L129 | <i>L. mono ½ a</i> | Fried potatoes | Spiking - 50 min at 55°C, 35 min at -80°C | <1 | - |
| | v3 | O22 | Frozen leek and carrot patties | L47 | <i>L. mono ½ a</i> | Fried potatoes | Spiking - 50 min at 55°C, 35 min at -80°C | 0,9 | - |
| | v3 | O24 | Tuscan purée | L47 | <i>L. mono ½ a</i> | Fried potatoes | Spiking - 50 min at 55°C, 35 min at -80°C | 0,4 | - |
| | v3 | P13 | Frozen broccoli patties | | | | mixture with naturally contaminated rice | | + |
| | v3 | P14 | Frozen cauliflower and carrot patties | | | | mixture with naturally contaminated rice | | + |
| | v3 | P15 | Frozen leek and carrot patties | L47 | <i>L. mono ½ a</i> | Fried potatoes | Spiking - 24 hrs at 4°C, 50 min at 55°C, 30 min at -80°C | 16,0 | + |
| | v3 | P20 | Tuscan purée | L47 | <i>L. mono ½ a</i> | Fried potatoes | Spiking - 24 hrs at 4°C, 50 min at 55°C, 30 min at -80°C | 8,0 | + |
| | v3 | P21 | Wheat | L47 | <i>L. mono ½ a</i> | Fried potatoes | Spiking - 24 hrs at 4°C, 50 min at 55°C, 30 min at -80°C | 16,0 | + |
| | v3 | R24 | Frozen peas | L125 | <i>L. mono</i> | Pan-fried vegetables | Spiking - 50 min at 55°C, 35 min at -80°C | ND | - |
| | v3 | S11 | Broccoli and carrot patties | L58 | <i>L. mono 4b</i> | Salad | Spiking - 50 min at 55°C, 35 min at -80°C | 2,4 | - |
| v3 | 29 | Long grain rice | LIS.4.17 | <i>L. mono 1/2a</i> | Crudeness | Seeding - 48h at 5±3 °C | 2.4 | + | |
| v3 | 33 | Leek, carrot, potatoes cake | LIS.4.17 | <i>L. mono 1/2a</i> | Crudeness | Seeding - 48h at 5±3 °C | 2.4 | + | |
| Environmental sample | e1 | 35 | Processed water 1 | LIS.4.2 | <i>L. mono</i> | Environment | Seeding - 48h at 5±3 °C | 2.2 | + |
| | e1 | 37 | Processed water 2 | LIS.4.2 | <i>L. mono</i> | Environment | Seeding - 48h at 5±3 °C | 2.2 | + |
| | e2 | E4 | Surface sponge | L28 | <i>L. mono 1/2a</i> | Surface sponge | Spiking - 50 min at 55°C, 35 min at -80°C | 2,2 | + |
| | e2 | E5 | Surface sponge | L28 | <i>L. mono 1/2a</i> | Surface sponge | Spiking - 50 min at 55°C, 35 min at -80°C | 4,4 | + |
| | e3 | 39 | Residue 1 | LIS.4.44 | <i>L. mono 3a</i> | Surface control | Seeding - 48h at 5±3 °C | 2.4 | + |
| | e3 | 41 | Residue 2 | LIS.4.44 | <i>L. mono 3a</i> | Surface control | Seeding - 48h at 5±3 °C | 2.4 | + |

APPENDIX C - Artificial contaminations (extension results)

| # | Sample name | Category | Type | Strain | | | Injury protocol | | | | Result | |
|---------|--|-----------------------------------|-------------------------------------|--|-----------------------------|--|----------------------------|----------------|----------------|--------------------------|--------|---|
| | | | | Strain | Code | Origin | Type of stress | Applied stress | Delta log | Level (CFU/test portion) | | |
| 1977823 | Raw milk cow cheese (Tomme) | Dairy products excluding raw milk | a | <i>L.monocytogenes 1/2b ou 3b ou 7</i> | BMU793 | Raw milk dairy products | Seeding | 72h at 4°C | / | 2,0 | + | |
| 1977824 | Raw milk cow cheese (Abondance) | | a | <i>L.monocytogenes 1/2b ou 3b ou 7</i> | BMU793 | Raw milk dairy products | Seeding | 72h at 4°C | / | 2,0 | + | |
| 1977825 | Raw milk cow cheese (Brie de Meaux) | | a | <i>L.monocytogenes 1/2b ou 3b ou 7</i> | BMU793 | Raw milk dairy products | Seeding | 72h at 4°C | / | 2,0 | + | |
| 1977826 | Raw milk cow cheese (Morbier) | | a | <i>L.monocytogenes 1/2a ou 3a</i> | BLV059 | Raw milk cheese | Seeding | 72h at 4°C | / | 2,2 | - | |
| 1977827 | Raw milk cow cheese (Chabichou) | | a | <i>L.monocytogenes 1/2a ou 3a</i> | BLV059 | Raw milk cheese | Seeding | 72h at 4°C | / | 2,2 | + | |
| 1977828 | Raw milk cow cheese (Roquefort) | | a | <i>L.monocytogenes 1/2a ou 3a</i> | BLV059 | Raw milk cheese | Seeding | 72h at 4°C | / | 2,2 | + | |
| 2067968 | Raw milk ewe cheese (Roquefort) | | a | <i>L.monocytogenes 4d</i> | GCQ471 | Raw milk cheese | Seeding | 72h at 4°C | / | 2,8 | + | |
| 2067969 | Raw milk goat cheese (Ste Maure) | | a | <i>L.monocytogenes 4d</i> | GCQ471 | Raw milk cheese | Seeding | 72h at 4°C | / | 2,8 | + | |
| 2067970 | Raw milk cow cheese (Camembert) | | a | <i>L.monocytogenes 4d</i> | GCQ471 | Raw milk cheese | Seeding | 72h at 4°C | / | 2,8 | + | |
| 1977542 | Pasteurized cow cheese (Munster) | | b | <i>L.monocytogenes 1/2b</i> | CLM641 | Raw milk cheese | Seeding | 72h at 4°C | / | 1,8 | + | |
| 1977545 | Pasteurized cow cheese with pepper | | b | <i>L.monocytogenes 1/2a ou 3a - L.welshimeri</i> | FKZ497 - GLX736 | Tartiflette brusheta - Infant formula industry | Seeding | 72h at 4°C | / | 1,6/2,2 | + | |
| 1977546 | Pasteurized sheep cheese | | b | <i>L.monocytogenes 1/2a ou 3a - L.welshimeri</i> | FKZ497 - GLX736 | Tartiflette brusheta - Infant formula industry | Seeding | 72h at 4°C | / | 1,6/2,2 | + | |
| 1977547 | Pasteurized cow cheese (Brie) | | b | <i>L.monocytogenes 1/2a ou 3a - L.welshimeri</i> | FKZ497 - GLX736 | Tartiflette brusheta - Infant formula industry | Seeding | 72h at 4°C | / | 1,6/2,2 | + | |
| 1977548 | Pasteurized sheep cheese (Bleu) | | b | <i>L.monocytogenes 1/2a ou 3a</i> | FMJ325 | Thermized milk cheese | Seeding | 72h at 4°C | / | 1,8 | + | |
| 1977549 | Pasteurized cow cheese (Merzer) | | b | <i>L.monocytogenes 1/2a ou 3a</i> | FMJ325 | Thermized milk cheese | Seeding | 72h at 4°C | / | 1,8 | + | |
| 1977550 | Pasteurized sheep cheese | | b | <i>L.monocytogenes 1/2a ou 3a</i> | FMJ325 | Thermized milk cheese | Seeding | 72h at 4°C | / | 1,8 | + | |
| 1977551 | Pasteurized cow cheese | | b | <i>L.monocytogenes 1/2a ou 3a</i> | FMJ325 | Thermized milk cheese | Seeding | 72h at 4°C | / | 1,8 | + | |
| 1977555 | Powdered whey | | c | <i>L.monocytogenes 4b - L.innocua</i> | HBP652 - GPQ140 | Raw milk cheese - Milk powder industry | Spiking | 15 min at 56°C | 1,63 / 1,26 | 4,8/4,0 | + | |
| 1977557 | Skimmed milk powder | | c | <i>L.monocytogenes 1/2b ou 3b ou 7</i> | FLD375 | Feta cheese | Spiking | 15 min at 56°C | 1,81 | 4,6 | + | |
| 1977558 | Goat milk powder | | c | <i>L.monocytogenes 1/2b ou 3b ou 7</i> | FLD375 | Feta cheese | Spiking | 15 min at 56°C | 1,81 | 4,6 | + | |
| 1977559 | Powdered caseinate | | c | <i>L.monocytogenes 1/2b ou 3b ou 7</i> | FLD375 | Feta cheese | Spiking | 15 min at 56°C | 1,81 | 4,6 | + | |
| 1977581 | Powdered whole milk | | c | <i>L.monocytogenes 1/2b</i> | JAR249 | Pasteurized milk cheese | Spiking | 15 min at 56°C | 1,03 | 4,0 | + | |
| 1977582 | Skimmed milk powder | | c | <i>L.monocytogenes 1/2b</i> | JAR249 | Pasteurized milk cheese | Spiking | 15 min at 56°C | 1,03 | 4,0 | + | |
| 1977584 | Powdered buttermilk | | c | <i>L.monocytogenes 4b</i> | LAS822 | Raw milk cheese | Spiking | 15 min at 56°C | 0,80 | 4,4 | + | |
| 1977585 | Semi-skimmed milk powder | | c | <i>L.monocytogenes 4b</i> | LAS822 | Raw milk cheese | Spiking | 15 min at 56°C | 0,80 | 4,4 | + | |
| 1977577 | Whey permeate | | c | <i>L.monocytogenes 1/2a ou 3a</i> | GND673 | Environment dairy industry | Spiking | 15 min at 56°C | 0,85 | 4,4 | - | |
| 1977578 | Organic skimmed milk powder | | c | <i>L.monocytogenes 1/2a ou 3a</i> | GND673 | Environment dairy industry | Spiking | 15 min at 56°C | 0,85 | 4,4 | - | |
| 1977583 | Whey permeate | | c | <i>L.monocytogenes 1/2b</i> | JAR249 | Pasteurized milk cheese | Spiking | 15 min at 56°C | 1,03 | 4,0 | - | |
| 2067971 | Whey permeate | | c | <i>L.monocytogenes 1/2a ou 3a</i> | FKZ497 | Tartiflette brushetta | Spiking | 15 min at 56°C | 1,12 | 4,2 | + | |
| 2067972 | Powdered buttermilk | | c | <i>L.monocytogenes 1/2a ou 3a</i> | FKZ497 | Tartiflette brushetta | Spiking | 15 min at 56°C | 1,12 | 4,2 | + | |
| 2067973 | Ewe whole milk powder | | c | <i>L.monocytogenes 1/2a ou 3a</i> | FKZ497 | Tartiflette brushetta | Spiking | 15 min at 56°C | 1,12 | 4,2 | + | |
| 1977560 | Baby milk powder 0-6 months | | a | <i>L.innocua - L.monocytogenes 1/2b ou 3b ou 7</i> | GRR943 - BMU793 | Environment dairy industry - Fresh cream with raw milk | Spiking | 15 min at 56°C | 1,40 / 1,29 | 2,8/3,0 | + | |
| 1977561 | Baby milk powder 6-12 months batch 1 | | a | <i>L.innocua - L.monocytogenes 1/2b ou 3b ou 7</i> | GRR943 - BMU793 | Environment dairy industry - Fresh cream with raw milk | Spiking | 15 min at 56°C | 1,40 / 1,29 | 2,8/3,0 | + | |
| 1977562 | Baby milk powder 1-3 years batch 1 | | a | <i>L.innocua - L.monocytogenes 1/2b ou 3b ou 7</i> | GRR943 - BMU793 | Environment dairy industry - Fresh cream with raw milk | Spiking | 15 min at 56°C | 1,40 / 1,29 | 2,8/3,0 | + | |
| 1977563 | Baby growth milk powder 1-3 years | | a | <i>L.innocua - L.monocytogenes 1/2a ou 3a</i> | GLE603 - BLV059 | Environment dairy industry - Raw milk cheese | Spiking | 15 min at 56°C | 1,28 / 1,15 | 3,0/4,0 | + | |
| 1977564 | Baby goat milk powder 1-3 years | | a | <i>L.innocua - L.monocytogenes 1/2a ou 3a</i> | GLE603 - BLV059 | Environment dairy industry - Raw milk cheese | Spiking | 15 min at 56°C | 1,28 / 1,15 | 3,0/4,0 | + | |
| 1977565 | Baby milk powder 1-3 years batch 2 | | a | <i>L.innocua - L.monocytogenes 1/2a ou 3a</i> | GLE603 - BLV059 | Environment dairy industry - Raw milk cheese | Spiking | 15 min at 56°C | 1,28 / 1,15 | 3,0/4,0 | + | |
| 1977568 | Junior baby milk powder + 18 months | | a | <i>L.monocytogenes 1/2a</i> | PCA920 | Environment dairy industry | Spiking | 15 min at 56°C | 0,57 | 4,0 | + | |
| 1977567 | Baby milk powder thickened formula 6-12 months | | a | <i>L.monocytogenes 1/2a</i> | PCA920 | Environment dairy industry | Spiking | 15 min at 56°C | 0,57 | 4,0 | + | |
| 1977569 | Baby milk powder 6-12 months LOT 2 | | a | <i>L.monocytogenes 1/2a</i> | PCA920 | Environment dairy industry | Spiking | 15 min at 56°C | 0,57 | 4,0 | + | |
| 1977566 | Baby growth milk powder 1-3 years | | a | <i>L.monocytogenes 1/2a</i> | PCA920 | Environment dairy industry | Spiking | 15 min at 56°C | 0,57 | 4,0 | - | |
| 2045465 | Organic baby milk powder 6-12 months | | a | <i>L.monocytogenes 1/2a ou 3a</i> | GND673 | Environment dairy industry | Spiking | 30 min at 60°C | 1,73 | 3,8 | + | |
| 1977589 | Infant milk 1-3 years <i>Lactobacillus reuteri</i> DSM 17938 - 5.5 10 ⁶ UFC/g | | Powdered Infant Formula and cereals | b | <i>L.monocytogenes 1/2b</i> | JAR249 | Pasteurized milk cheese | Spiking | 15 min at 56°C | 1,03 | 4,0 | + |
| 1977590 | Organic infant milk 6-12 months <i>Lactobacillus fermentum hereditum</i> - 10 ⁶ UFC/g | | | b | <i>L.monocytogenes 1/2a</i> | PCA920 | Environment dairy industry | Spiking | 15 min at 56°C | 1,26 | 4,0 | + |
| 1977591 | Organic infant milk 1-3 years <i>Bifidobacterium lactis</i> - 2.1 10 ⁹ UFC/g | | | b | <i>L.monocytogenes 1/2a</i> | PCA920 | Environment dairy industry | Spiking | 15 min at 56°C | 1,26 | 4,0 | + |
| 1977592 | Infant milk 0-6 months greedy baby <i>B.Lactis</i> - 4.5 10 ⁶ UFC/g | | | b | <i>L.monocytogenes 4b</i> | HBP652 | Raw milk cheese | Spiking | 15 min at 56°C | 1,02 | 4,6 | + |
| 1977593 | Infant milk 6-12 months <i>Lactobacillus reuteri</i> DSM 17938 - 6.1 10 ⁶ UFC/g | | | b | <i>L.monocytogenes 4b</i> | HBP652 | Raw milk cheese | Spiking | 15 min at 56°C | 1,02 | 4,6 | + |
| 1977594 | Infant milk 6-12 months <i>S.thermophilus</i> - 7.7 10 ⁶ UFC/g | b | | <i>L.monocytogenes 4b</i> | HBP652 | Raw milk cheese | Spiking | 15 min at 56°C | 1,02 | 4,6 | + | |
| 1977595 | Infant milk 6-12 months thickened formula Bifidobactéries - 1.6 10 ⁶ UFC/g | b | | <i>L.monocytogenes 4b</i> | HBP652 | Raw milk cheese | Spiking | 15 min at 56°C | 1,02 | 4,6 | + | |
| 1978391 | Infant milk 1-3 years <i>Lactobacillus reuteri</i> DSM 17938 - 5.4 10 ⁶ UFC/g | b | | <i>L.monocytogenes 1/2a ou 3a</i> | GND673 | Environment dairy industry | Spiking | 30 min at 60°C | 1,73 | 3,8 | + | |
| 1977586 | Infant milk 0-6 months thickened formula <i>B.Lactis</i> - 4.7 10 ⁶ UFC/g | b | | <i>L.monocytogenes 1/2b</i> | JAR249 | Pasteurized milk cheese | Spiking | 15 min at 56°C | 1,03 | 4,0 | - | |
| 1977587 | Infant milk 0-6 months (breastfeeding relay) <i>Lactobacillus reuteri</i> DSM 17938 - 4 10 ⁶ UFC/g | b | | <i>L.monocytogenes 4b</i> | LAS822 | Raw milk cheese | Spiking | 15 min at 56°C | 0,8 | 4,4 | - | |
| 1977588 | Infant milk 6-12 months thickened formula <i>Bifidobacterium infantis</i> - 4.1 10 ⁶ UFC/g | b | | <i>L.monocytogenes 4b</i> | LAS822 | Raw milk cheese | Spiking | 15 min at 56°C | 0,8 | 4,4 | - | |
| 1978390 | Organic infant milk 1-3 years <i>Lactobacillus fermentum hereditum</i> CECT5716 - 5.8 10 ⁶ UFC/g | b | | <i>L.monocytogenes 1/2a ou 3a</i> | GND673 | Environment dairy industry | Spiking | 30 min at 60°C | 1,73 | 3,8 | - | |

APPENDIX C - Artificial contaminations (extension results)

| # | Sample name | Category | Type | Strain | | | Injury protocol | | | | Result |
|---------|---|---|------|-----------------------------------|--------|----------------------------|-----------------|----------------|-----------|--------------------------|--------|
| | | | | Strain | Code | Origin | Type of stress | Applied stress | Delta log | Level (CFU/test portion) | |
| 2067974 | Organic infant milk 6-12 months Bifidobacterium infantis - 2,3 10 ⁶ UFC/g | Powdered Infant Formula and cereals | b | <i>L.monocytogenes 1/2a</i> | LCM223 | Environment dairy industry | Spiking | 15 min at 56°C | 0,9 | 4,8 | + |
| 2067975 | Organic infant milk 0-6 months Bifidobacterium - 9,4 10 ⁵ UFC/g | | b | <i>L.monocytogenes 1/2a</i> | LCM223 | Environment dairy industry | Spiking | 15 min at 56°C | 0,9 | 4,8 | + |
| 1977742 | Infant cereal quinoa banana plum B. lactis 1,1 10 ⁶ CFU/g | | c | <i>L.monocytogenes 4b</i> | RCJ280 | Plants | Spiking | 30 min at 60°C | 0,73 | 4 | + |
| 1977743 | Infant cereals with honey B. lactis 3,4 10 ⁶ CFU/g | | c | <i>L.monocytogenes 4b</i> | RCJ280 | Plants | Spiking | 30 min at 60°C | 0,73 | 4 | + |
| 1977744 | Biscuit flavored infant cereals B. lactis 7 10 ⁵ CFU/g | | c | <i>L.monocytogenes 4b</i> | RCJ280 | Plants | Spiking | 30 min at 60°C | 0,73 | 4 | + |
| 1977745 | Infant cereals with 5 cereals B. lactis 5 10 ⁵ CFU/g | | c | <i>L.monocytogenes 4b</i> | RCJ280 | Plants | Spiking | 30 min at 60°C | 0,73 | 4 | + |
| 1977746 | Whole oat and wheat infant cereals B. lactis 6,8 10 ⁶ CFU/g | | c | <i>L.monocytogenes</i> | BNX114 | Composite feeds | Spiking | 15 min at 56°C | 1,01 | 3,4 | + |
| 1977747 | Infant multi-cereals with exotic fruits | | c | <i>L.monocytogenes</i> | BNX114 | Composite feeds | Spiking | 15 min at 56°C | 1,01 | 3,4 | + |
| 1977748 | Brioche flavored Infant cereals | | c | <i>L.monocytogenes 4b</i> | RCJ280 | Plants | Spiking | 30 min at 60°C | 0,73 | 4 | + |
| 1977749 | Infant vanilla cereals | | c | <i>L.monocytogenes 4b</i> | LAS822 | Raw milk cheese | Spiking | 15 min at 56°C | 1,72 | 2,8 | - |
| 1977750 | Infant chocolate cereals | | c | <i>L.monocytogenes 4b</i> | LAS822 | Raw milk cheese | Spiking | 15 min at 56°C | 1,72 | 2,8 | + |
| 1977751 | Infant caramel cereals | | c | <i>L.monocytogenes 1/2b</i> | JAR249 | Pasteurized milk cheese | Spiking | 15 min at 56°C | 1,85 | 2,6 | + |
| 1977780 | Infant chocolate cereals | | c | <i>L.monocytogenes 1/2a ou 3a</i> | GND673 | Environment dairy industry | Spiking | 30 min at 60°C | 1,73 | 3,8 | + |

Appendix D - Sensitivity study - Raw results

Caption:

sp : spiking
se : seeding
AC : artificial contamination
Level of conta.: level of contamination
mix: contamination by mixture
OAA : Ottaviani & Agosti agar
OX: Oxford agar
PAL: Palcam agar
Chromo: Chromogenic agar
+ : positive result
- : negative result
/ : test not realized
PA : positive agreement
NA : negative agreement
PD : positive deviation
ND : negative deviation

Bacterial load (previous validation)

∅ : absence of colonies
∅, L, M, H: level of bacterial load from absence to high
A: pure culture of suspected colonies
B: mixing with a majority of suspected colonies
C: mixing with a minority of suspected colonies
D: mixing with rare suspected colonies
E: absence of suspected colonies

Bacterial load (2018 study)

∅ : absence of annex flora
0 / 1 / 2 / 3 / 4 : level of typical flora, from absence to high
∅ / L / M / H : level of annex flora, from absence to high

Meat products

| Year | Code | Matrices (french name) | Matrices | Cat. | AC | level of conta | EN ISO 11290-1 method | | | | | | VIDAS LMO2 method | | | | | | Comparison | | |
|------|------|-------------------------------------|------------------------------------|------|----|----------------|-----------------------|---------------------------|--------|-------------------------------|-----------------|-----------------|-------------------|-------|-------------|--------------|---------------------------------|-----------------|-----------------|--------------|----|
| | | | | | | | Half Fraser | | Fraser | | Confirmation | | VIDAS LMO2 | | | Confirmation | | | | Final result | |
| | | | | | | | P1 | OX1(2002) OA1(2006, 2018) | P2 | OX1/OA2(2002) OA2(2006, 2018) | Identification | Result | RFV | TV | Test result | PAL | OX/Chromo(2002) OAA(2006, 2018) | Identification | | | |
| 2002 | 2002 | Rôti de dindonneau | Roast turkey | m1 | No | / | ∅ | ∅ | -LE | -LE | / | - | 0.00 | - | / | / | / | - | NA | | |
| 2006 | L6 | Tripes à la tomate | Tripe with tomato | m1 | No | / | ∅ | ∅ | ∅ | ∅ | / | - | -2 | 0.00 | - | / | / | / | - | NA | |
| 2006 | L8 | Foie gras | Foie gras | m1 | No | / | ∅ | ∅ | ∅ | ∅ | / | - | -1 | 0.00 | - | / | / | / | - | NA | |
| 2006 | M4 | Boudin noir | Black pudding | m1 | sp | 4.5 | ∅ | ∅ | ∅ | ∅ | / | - | 1 | 0.00 | - | ∅ | ∅ | / | - | NA | |
| 2006 | M26 | Escalope de dinde panée | Breaded turkey cutlet | m1 | No | / | -LE | -LE | -LE | ∅ | / | - | -2 | 0.00 | - | / | / | / | - | NA | |
| 2006 | M27 | Sauté de porc en sauce | Sautéed pork in sauce | m1 | No | / | ∅ | -LE | ∅ | ∅ | / | - | 0 | 0.00 | - | / | / | / | - | NA | |
| 2006 | Q15 | Bœuf bourguignon | Beef bourguignon | m1 | No | / | ∅ | ∅ | ∅ | ∅ | / | - | 0 | 0.00 | - | / | / | / | - | NA | |
| 2006 | Q16 | Escalope de veau à la crème | Escalopes of veal in cream sauce | m1 | No | / | ∅ | ∅ | ∅ | ∅ | / | - | 0 | 0.00 | - | / | / | / | - | NA | |
| 2006 | Q17 | Sauté de porc aux légumes | Sautéed pork with vegetables | m1 | No | / | ∅ | ∅ | ∅ | ∅ | / | - | 2 | 0.00 | - | / | / | / | - | NA | |
| 2006 | Q22 | Cervelas rémoulade | Cervelas rémoulade | m1 | No | / | ∅ | ∅ | -LE | -LE | / | - | -1 | 0.00 | - | / | / | / | - | NA | |
| 2002 | 2002 | Saucisses de Strasbourg | Sausages from Strasbourg | m2 | No | / | -HE | -HE | +HB | +HB / -HE | L.welshimeri | - | 0.00 | - | / | / | / | - | NA | | |
| 2002 | 2002 | Pâté | Paté | m2 | No | / | +MB | +MB | +MB | -ME / -LE | L.welshimeri | - | 0.00 | - | / | / | / | - | NA | | |
| 2002 | 2002 | Noix de jambon | Ham nuts | m2 | No | / | +MB | +MB | +HB | +HB / -LE | L.welshimeri | - | 0.00 | - | / | / | / | - | NA | | |
| 2002 | 2002 | Pâté de tête | Pâté de tête | m2 | No | / | -LE | -ME | ∅ | ∅ | / | - | 0.00 | - | / | / | / | - | NA | | |
| 2002 | 2002 | Jambon | Ham | m2 | No | / | ∅ | -ME | -LE | -HE | / | - | 0.00 | - | / | / | / | - | NA | | |
| 2002 | 2002 | Jambon | Ham | m2 | No | / | ∅ | -LE | ∅ | -HE | / | - | 0.00 | - | / | / | / | - | NA | | |
| 2002 | 2002 | Mortadelle | mortadella | m2 | No | / | ∅ | ∅ | -ME | -ME | / | - | 0.00 | - | / | / | / | - | NA | | |
| 2006 | O13 | Saucisse d'Alsace | Sausage of Alsace | m2 | sp | 0.75 | -LE | ∅ | ∅ | ∅ | / | - | 1 | 0.00 | - | / | / | / | - | NA | |
| 2006 | P29 | Saucisses de Montbéliard cuites | Cooked Montbéliard sausages | m2 | No | / | ∅ | ∅ | ∅ | ∅ | / | - | -1 | 0.00 | - | / | / | / | - | NA | |
| 2006 | Q18 | Saucisses de Strasbourg vinaigrette | Sausages of Strasbourg vinaigrette | m2 | No | / | ∅ | ∅ | ∅ | -LE | / | - | -3 | 0.00 | - | / | / | / | - | NA | |
| 2006 | Q20 | Cervelas | Wieners | m2 | No | / | ∅ | ∅ | ∅ | ∅ | / | - | -4 | 0.00 | - | / | / | / | - | NA | |
| 2006 | Q21 | Saucisse de Frankfort | Wiener | m2 | No | / | ∅ | ∅ | -ME | -LE | / | - | 0 | 0.00 | - | / | / | / | - | NA | |
| 2006 | R11 | Saucisses de Strasbourg | Sausages from Strasbourg | m2 | No | / | -LE | ∅ | ∅ | -LE | / | - | -2 | 0.00 | - | / | / | / | - | NA | |
| 2006 | L3 | Pâté de tête | Pâté de tête | m2 | No | / | +HB | -HA | +HA | -HA | L.innocua | - | -1 | 0.00 | - | / | / | / | - | NA | |
| 2006 | L4 | Mousse de foie | Liver mousse | m2 | No | / | ∅ | -LE | -ME | -ME | / | - | -2 | 0.00 | - | / | / | / | - | NA | |
| 2006 | L5 | Saucisson sec | Dry sausage | m2 | No | / | +LA | -MB | +MB | -HA | L.innocua | - | -2 | 0.00 | - | / | / | / | - | NA | |
| 2006 | M10 | Pâté de tête | Pâté de tête | m2 | No | / | -HE | -ME | -HE | -ME | / | - | 1 | 0.00 | - | -ME | -ME | / | - | NA | |
| 2006 | M11 | Saucisse à tartiner | Sausage spreads | m2 | No | / | -LE | -LE | -HE | -ME | / | - | -1 | 0.00 | - | -HE | -ME | / | - | NA | |
| 2006 | Q19 | Saucisson à l'ail | Garlic sausage | m2 | No | / | ∅ | ∅ | -LE | -LE | / | - | 0 | 0.00 | - | / | / | / | - | NA | |
| 2006 | R12 | Cervelas | Wieners | m2 | sp | 2.7 | ∅ | ∅ | ∅ | ∅ | / | - | 36 | 0.00 | - | / | / | / | - | NA | |
| 2018 | 2 | Sausssises de Francfort | Francfort sausages | ∅ | m2 | No | / | 0∅ | 0L | 0∅ | 0∅ | / | - | -4 | 0.00 | - | 0∅ | 0∅ | / | A | NA |
| 2018 | 4 | Sausssises de Strasbourg | Strasbourg sausages | ∅ | m2 | No | / | 0∅ | 0∅ | 0∅ | 0∅ | / | - | -5 | 0.00 | - | 0∅ | 0∅ | / | A | NA |
| 2018 | 6 | Sausssises de poulet | Chicken sausages | ∅ | m2 | No | / | 0∅ | 0∅ | 0∅ | 0∅ | / | - | -5 | 0.00 | - | 0∅ | 0∅ | / | A | NA |
| 2006 | L7 | Foie gras | Foie gras | m1 | No | / | +LA | +MA | +MA | +HA | L.monocytogenes | + | 9191 | 2.29 | + | +HA | +HA | L.monocytogenes | + | PA | |
| 2006 | M3 | Ailerons de poulets | Chicken wings | m1 | sp | 2.7 | +LB(5) | +LA(3) | +HB | +MA | L.monocytogenes | + | 10027 | 2.63 | + | +HA | +MA | L.monocytogenes | + | PA | |
| 2006 | M7 | Sauté de porc en sauce | Sautéed pork in sauce | m1 | sp | 2.7 | +LA | +LA | +HA | +MA | L.monocytogenes | + | 8597 | 2.25 | + | +HA | +MA | L.monocytogenes | + | PA | |
| 2006 | M2 | Nems de porc | Nems of pork | m1 | sp | 4.5 | +MB | +MB | +HB | +MB | L.monocytogenes | + | 9152 | 2.40 | + | +MA | +MA | L.monocytogenes | + | PA | |
| 2006 | M6 | Cordons bleus | Blue cords | m1 | sp | 4.5 | +LA | +LA | +HA | +HB | L.monocytogenes | + | 9344 | 2.45 | + | +HA | +MA | L.monocytogenes | + | PA | |
| 2006 | M1 | Rognons sauce Madère | Madeira sauce kidneys | m1 | sp | 7.2 | +LA | +LA | +HA | +MA | L.monocytogenes | + | 9247 | 2.42 | + | +HA | +HA | L.monocytogenes | + | PA | |
| 2006 | N2 | Viande à la bolognaise | Meat Bolognese | m1 | sp | 9.84 | +MA | +MA | +HA | +MA | L.monocytogenes | + | 9041 | 2.31 | + | +HA | +HA | L.monocytogenes | + | PA | |
| 2006 | N1 | Poulet basquaise | Basque chicken | m1 | sp | 12.3 | +MA | +MA | +HA | +HA | L.monocytogenes | + | 9121 | 2.33 | + | +HA | +HA | L.monocytogenes | + | PA | |
| 2018 | 1 | Poulet cuisiné aux légumes | Chicken baked with vegetable | ∅ | m1 | se | 2.4 | 2h+∅ | 2L | 3h+∅ | 3L | L.monocytogenes | + | 11125 | 2.83 | + | 3h+∅ | 2∅ | L.monocytogenes | + | PA |
| 2018 | 3 | Bœuf à la tomate | Beef with potatoes | ∅ | m1 | se | 2.4 | 2h+∅ | 2∅ | 2h+∅ | 3∅ | L.monocytogenes | + | 10899 | 2.78 | + | 3h+∅ | 3∅ | L.monocytogenes | + | PA |
| 2002 | 2002 | Saucisses de Strasbourg | Sausages from Strasbourg | m2 | No | / | +HA | +HA | +HB | +HB | L.monocytogenes | + | 1.72 | + | +HB | +HB / +HA | L.monocytogenes | + | PA | | |
| 2002 | 2002 | Saucisses de Strasbourg | Sausages from Strasbourg | m2 | No | / | +HA | +HA | +HB | +HB | L.monocytogenes | + | 1.90 | + | +HB | +HB / +HA | L.monocytogenes | + | PA | | |
| 2002 | 2002 | Terrine de canard | Duck terrine | m2 | No | / | +MA | +MA | +HA | +HA | L.monocytogenes | + | 2.38 | + | +HA | +HA | L.monocytogenes | + | PA | | |
| 2002 | 2002 | Tête de porc persillée | Blue pork head | m2 | No | / | +MA | +MB | +HA | +HB / +HA | L.monocytogenes | + | 2.06 | + | +HB | +HB / +HA | L.monocytogenes | + | PA | | |

Meat products

| Year | Code | Matrices (french name) | Matrices | Cat. | AC | level of conta | EN ISO 11290-1 method | | | | | | VIDAS LMO2 method | | | | | | Comparison | | |
|------|------|--------------------------|-----------------------|------|----|----------------|-----------------------|---------------------------|--------|-------------------------------|----------------|--|-------------------|-------|-------------|--------------|---------------------------------|-----------------|--|--------------|----|
| | | | | | | | Half Fraser | | Fraser | | Confirmation | | VIDAS LMO2 | | | Confirmation | | | | Final result | |
| | | | | | | | P1 | OX1(2002) OA1(2006, 2018) | P2 | OX1/OA2(2002) OA2(2006, 2018) | Identification | Result | RFV | TV | Test result | PAL | OX/Chromo(2002) OAA(2006, 2018) | Identification | | | |
| 2002 | 2002 | Fritons de porc | Pork fries | | m2 | No | / | +HA | +HA | +MB | +MB | <i>L.monocytogenes</i> <i>L.innocua</i> | + | | 2.02 | + | +HA | +HA / +HB | <i>L.monocytogenes</i> <i>L.innocua</i> | + | PA |
| 2002 | 2002 | Foie gras | Foie gras | | m2 | No | / | +HA | +HB | +HA | +HB / +HA | <i>L.monocytogenes</i> | + | | 1.40 | + | +HA | +HB / +HA ; +HC | <i>L.monocytogenes</i> | + | PA |
| 2006 | O14 | Cervelas | Wieners | | m2 | sp | 0.9 | ∅ | ∅ | ∅ | ∅ | / | - | 1240 | 0.31 | + | +MA | +LA | <i>L.monocytogenes</i> | + | PD |
| 2006 | O12 | Cervelas à la moutarde | Cervelas with mustard | | m2 | sp | 1.2 | +LA(1) | ∅ | +HA | +MA | <i>L.monocytogenes</i> | + | 11158 | 2.86 | + | +HA | +MA | <i>L.monocytogenes</i> | + | PA |
| 2006 | M30 | Saucisses | Sausages | | m2 | sp | 4.5 | +LA | +LA | +MA | +MA | <i>L.monocytogenes</i> | + | 8579 | 2.25 | + | +HA | +MA | <i>L.monocytogenes</i> | + | PA |
| 2006 | N3 | Merguez cuite | Cooked merguez | | m2 | sp | 9.84 | +MA | +MA | +HA | +MA | <i>L.monocytogenes</i> | + | 8939 | 2.29 | + | +HA | +MA | <i>L.monocytogenes</i> | + | PA |
| 2006 | O11 | Cervelas | Wieners | | m2 | sp | 12.6 | +MA | +MA | +MA | +MA | <i>L.monocytogenes</i> | + | 8293 | 2.12 | + | +HA | +MA | <i>L.monocytogenes</i> | + | PA |
| 2006 | O10 | Saucisse de Frankfort | Wiener | | m2 | sp | 16.8 | +MA | +MA | +HA | +MA | <i>L.monocytogenes</i> | + | 8150 | 2.09 | + | +HA | +MA | <i>L.monocytogenes</i> | + | PA |
| 2006 | L9 | Pâté de campagne | Country pâté | | m2 | No | / | ∅ | -LE | +MA | +MA | <i>L.monocytogenes</i> | + | 0 | 0.00 | - | ∅ | ∅ | / | - | ND |
| 2006 | L2 | Saucisse à tartiner | Sausage spreads | | m2 | No | / | +MB | +MB | +HA | +MB | <i>L.monocytogenes</i> <i>L.innocua</i> | + | 10239 | 2.55 | + | +HA | +MA | <i>L.monocytogenes</i> <i>L.innocua</i> | + | PA |
| 2006 | M8 | Langue en gelée | Tongue in jelly | | m2 | No | / | +MB | +MB | +HC | +MD | <i>L.monocytogenes</i> | + | 6536 | 1.71 | + | +HA | +HA | <i>L.monocytogenes</i> | + | PA |
| 2006 | M9 | Mousse de foie | Liver mousse | | m2 | No | / | -ME | -ME | +HA | +MA | <i>L.monocytogenes</i> | + | 11331 | 2.57 | + | +MA | +MA | <i>L.monocytogenes</i> | + | PA |
| 2006 | Q9 | Pâté de campagne | Country pâté | | m2 | sp | 5.7 | +LA | +LB | +MA | +MB | <i>L.monocytogenes</i> | + | 9262 | 2.37 | + | +HA | +HA | <i>L.monocytogenes</i> | + | PA |
| 2006 | N4 | Rillettes | rillettes | | m2 | sp | 6.15 | +LA | +MA | +HA | +MA | <i>L.monocytogenes</i> | + | 9108 | 2.33 | + | +MA | +MA | <i>L.monocytogenes</i> | + | PA |
| 2006 | M5 | Rillettes | rillettes | | m2 | sp | 7.2 | +MB | +MB | +HA | +HA | <i>L.monocytogenes</i> | + | 9709 | 2.54 | + | +HA | +MA | <i>L.monocytogenes</i> | + | PA |
| 2006 | Q10 | Jambon | Ham | | m2 | sp | 7.6 | +LA | +LA | +HA | +HA | <i>L.monocytogenes</i> | + | 93 | 0.02 | - | -ME | -LE | / | - | ND |
| 2018 | 5 | Saussisses de Francfort | Francfort sausages | ∅ | m2 | se | 2.2 | 1h+∅ | 2∅ | 3h+∅ | 2∅ | <i>L.monocytogenes</i> | + | 11434 | 2.91 | + | 3h+∅ | 2∅ | <i>L.monocytogenes</i> | + | PA |
| 2018 | 7 | Saussisses de Strasbourg | Strasbourg sausages | ∅ | m2 | No | / | 2h+∅ | 2∅ | 3h+∅ | 2∅ | <i>L.monocytogenes</i> | + | 12029 | 3.06 | + | 3h+∅ | 3∅ | <i>L.monocytogenes</i> | + | PA |

Dairy products

| Year | Code | Matrices (french name) | Matrices | Cat. | AC | level of conta. | EN ISO 11290-1 method | | | | | | VIDAS LMO2 method | | | | | | Final result | Comparison | |
|------|------|-------------------------------|-------------------------|------|----|-----------------|-----------------------|---------------------------|--------|-------------------------------|----------------|------------------------|-------------------|-------|-------------|--------------|---------------------------------|----------------|------------------------|------------|----|
| | | | | | | | Half Fraser | | Fraser | | Confirmation | | VIDAS LMO2 | | | Confirmation | | | | | |
| | | | | | | | P1 | OX1(2002) OA1(2006,2 018) | P2 | OX1/OA2(2002) OA2(2006, 2018) | Identification | Result | RFV | TV | Test result | PAL | OX/Chromo(2002) OAA(2006, 2018) | Identification | | | |
| 2006 | K14 | Tranchettes hollandaise | Dutch slicers | | d1 | sp | 2 | ∅ | ∅ | -LE | ∅ | / | - | 0 | 0.00 | - | / | / | / | - | NA |
| 2006 | Q3 | Brie pasteurisé | Pasteurized brie | | d1 | sp | <1 | ∅ | ∅ | ∅ | -ME | / | - | 1 | 0.00 | - | / | / | / | - | NA |
| 2006 | Q4 | Camembert | Camembert | | d1 | sp | <1 | ∅ | ∅ | ∅ | ∅ | / | < | 14 | 0.00 | - | / | / | / | - | NA |
| 2006 | R1 | Carré de l'Est | Eastern Square | | d1 | sp | 6.4 | -LE | -LE | -ME | -LE | / | - | 6 | 0.00 | - | / | / | / | - | NA |
| 2006 | R2 | Brie | Brie | | d1 | sp | 0.2 | -ME | -ME | -HE | -ME | / | - | 2 | 0.00 | - | / | / | / | - | NA |
| 2006 | R3 | Epoisses | Epoisses | | d1 | sp | 0.3 | -LE | ∅ | ∅ | -LE | / | - | 1 | 0.00 | - | / | / | / | - | NA |
| 2006 | M22 | St Nectaire pasteurisé | St Nectaire pasteurized | | d1 | sp | 0.2 | -ME | -ME | -LE | ∅ | / | - | 3 | 0.00 | - | -LE | ∅ | / | - | NA |
| 2006 | M23 | Gouda jeune | Young Gouda | | d1 | sp | 0.32 | -LE | -LE | -LE | ∅ | / | - | -2 | 0.00 | - | ∅ | ∅ | / | - | NA |
| 2006 | P5 | Tomme pasteurisée | Pasteurized Tomme | | d1 | sp | 11 | ∅ | -LE | ∅ | -ME | / | - | 2 | 0.00 | - | / | / | / | - | NA |
| 2006 | P6 | Brin de paille | Straw | | d1 | sp | ND | ∅ | -ME | ∅ | -ME | / | - | 8 | 0.00 | - | / | / | / | - | NA |
| 2006 | P7 | Epoisses | Epoisses | | d1 | sp | ND | ∅ | ∅ | -LE | ∅ | / | - | 1 | 0.00 | - | / | / | / | - | NA |
| 2006 | R7 | Camembert | Camembert | | d1 | sp | mix | -LE | -ME | ∅ | ∅ | / | - | 0 | 0.00 | - | / | / | / | - | NA |
| 2006 | R8 | Epoisses | Epoisses | | d1 | sp | mix | ∅ | ∅ | -ME | -LE | / | - | -1 | 0.00 | - | / | / | / | - | NA |
| 2006 | U2 | Epoisses | Epoisses | | d1 | No | / | -LE | -LE | -LE | -LE | / | - | 1 | 0.00 | - | / | / | / | - | NA |
| 2006 | U5 | Munster pasteurisé | Pasteurized Munster | | d1 | No | / | ∅ | -LE | ∅ | ∅ | / | - | -5 | 0.00 | - | / | / | / | - | NA |
| 2006 | J1 | Fromage de chèvre pasteurisé | Pasteurized goat cheese | | d2 | sp | 0.15 | ∅ | ∅ | ∅ | -LE | / | - | -2 | 0.00 | - | / | / | / | - | NA |
| 2006 | J2 | Petit Billy | Little Billy | | d2 | sp | 0.9 | ∅ | ∅ | ∅ | -LE | / | - | -1 | 0.00 | - | / | / | / | - | NA |
| 2006 | L1 | Fromage de chèvre frais | Fresh goat cheese | | d2 | No | / | -LE | -LE | -LE | ∅ | / | - | -2 | 0.00 | - | -LE | ∅ | / | - | NA |
| 2006 | M24 | Bûche de chèvre pasteurisée | Pasteurized goat's log | | d2 | sp | 0.32 | ∅ | ∅ | ∅ | ∅ | / | - | 28 | 0.00 | - | ∅ | ∅ | / | - | NA |
| 2006 | P8 | Fromage de chèvre du Limousin | Limousin goat cheese | | d2 | sp | 8.25 | ∅ | ∅ | ∅ | ∅ | / | - | 17 | 0.00 | - | / | / | / | - | NA |
| 2006 | P9 | Bûche de chèvre pasteurisée | Pasteurized goat's log | | d2 | sp | 5.5 | ∅ | ∅ | ∅ | ∅ | / | - | -4 | 0.00 | - | / | / | / | - | NA |
| 2006 | P10 | Bûche de chèvre pasteurisée | Pasteurized goat's log | | d2 | sp | ND | -LE | -LE | -LE | -LE | / | - | 10 | 0.00 | - | / | / | / | - | NA |
| 2006 | P11 | Petit Billy | Little Billy | | d2 | sp | ND | ∅ | ∅ | ∅ | -LE | / | - | -1 | 0.00 | - | / | / | / | - | NA |
| 2006 | Q1 | Bûche de chèvre pasteurisée | Pasteurized goat's log | | d2 | sp | <1 | ∅ | ∅ | ∅ | ∅ | / | - | 0 | 0.00 | - | / | / | / | - | NA |
| 2006 | Q2 | Bûche de chèvre pasteurisée | Pasteurized goat's log | | d2 | sp | <1 | ∅ | ∅ | ∅ | ∅ | / | - | -2 | 0.00 | - | / | / | / | - | NA |
| 2006 | R4 | Petit Billy | Little Billy | | d2 | sp | 0.16 | ∅ | ∅ | ∅ | ∅ | / | - | 3 | 0.00 | - | / | / | / | - | NA |
| 2006 | R5 | Bûche de chèvre pasteurisée | Pasteurized goat's log | | d2 | sp | 6.4 | ∅ | ∅ | ∅ | ∅ | / | - | 6 | 0.00 | - | / | / | / | - | NA |
| 2006 | R6 | Fromage de chèvre pasteurisé | Pasteurized goat cheese | | d2 | sp | 0.2 | -LE | -LE | -LE | ∅ | / | - | 2 | 0.00 | - | / | / | / | - | NA |
| 2006 | R9 | Petit Billy | Little Billy | | d2 | sp | mix | ∅ | ∅ | ∅ | -LE | / | - | -1 | 0.00 | - | / | / | / | - | NA |
| 2006 | T8 | Fromage de chèvre | Goat cheese | | d2 | No | / | ∅ | ∅ | ∅ | ∅ | / | - | -4 | 0.00 | - | / | / | / | - | NA |
| 2006 | K1 | Chou chantilly | Whipped cream | | d3 | No | / | ∅ | ∅ | ∅ | ∅ | / | - | -1 | 0.00 | - | / | / | / | - | NA |
| 2006 | K3 | Tartelettes cerise | Cherry tartlets | | d3 | No | / | ∅ | ∅ | ∅ | ∅ | / | - | -2 | 0.00 | - | / | / | / | - | NA |
| 2006 | K4 | Tartelettes fraises | Strawberry tartlets | | d3 | No | / | ∅ | ∅ | ∅ | ∅ | / | - | 1 | 0.00 | - | / | / | / | - | NA |
| 2006 | L11 | Tartelette aux fruits | Fruit tartlet | | d3 | No | / | ∅ | ∅ | -ME | -LE | / | - | 8 | 0.00 | - | / | / | / | - | NA |
| 2006 | M20 | Lait pasteurisé | Pasteurized milk | | d3 | sp | 0.2 | ∅ | ∅ | -LE | -LE | / | - | -2 | 0.00 | - | ∅ | -LE | / | - | NA |
| 2006 | M21 | Lait pasteurisé | Pasteurized milk | | d3 | sp | 0.12 | ∅ | ∅ | ∅ | ∅ | / | - | -2 | 0.00 | - | ∅ | ∅ | / | - | NA |
| 2018 | 8 | Lait UHT entier | Whole UHT milk | ∅ | d3 | No | / | 0∅ | 0∅ | 0∅ | 0∅ | / | - | -4 | 0.00 | - | 0∅ | 0∅ | / | - | NA |
| 2018 | 10 | Lait UHT écrémé | Skimmed UHT milk | ∅ | d3 | No | / | 0∅ | 0∅ | 0∅ | 0∅ | / | - | -5 | 0.00 | - | 0∅ | 0∅ | / | - | NA |
| 2018 | 12 | Poudre de lait entier | Whole milk powder | ∅ | d3 | No | / | 0L | 0L | 0L | 0L | / | - | -4 | 0.00 | - | 0L | 0L | / | - | NA |
| 2018 | 14 | Poudre de lait écrémé | Skimmed milk powder | ∅ | d3 | No | / | 0L | 0L | 0L | 0L | / | - | -5 | 0.00 | - | 0L | 0L | / | - | NA |
| 2006 | U1 | Epoisses | Epoisses | | d1 | No | / | +LA | +MA | +MA | +MA | <i>L.monocytogenes</i> | + | 4393 | 1.13 | + | +HA | +MA | <i>L.monocytogenes</i> | + | PA |
| 2006 | O17 | Epoisses | Epoisses | | d1 | sp | 2.7 | +LB(2) | -LE | +MB | +MA | <i>L.monocytogenes</i> | + | 10006 | 2.56 | + | +MA | +MA | <i>L.monocytogenes</i> | + | PA |
| 2006 | K11 | Brie | Brie | | d1 | sp | 3.2 | +LA | +LA(3) | +HA | +MA | <i>L.monocytogenes</i> | + | 11013 | 2.75 | + | +MA | +MA | <i>L.monocytogenes</i> | + | PA |
| 2006 | S2 | Camembert | Camembert | | d1 | sp | 4 | +LB | +LB | +MB | +MA | <i>L.monocytogenes</i> | + | 11461 | 3.10 | + | +HA | +MB | <i>L.monocytogenes</i> | + | PA |
| 2006 | O15 | St Nectaire pasteurisé | St Nectaire pasteurized | | d1 | sp | 4.5 | +LB | +LC(1) | +HA | +MA | <i>L.monocytogenes</i> | + | 10651 | 2.73 | + | +MA | +MA | <i>L.monocytogenes</i> | + | PA |
| 2006 | S3 | Munster pasteurisé | Pasteurized Munster | | d1 | sp | 7.6 | +LB | +MC | +HA | +MA | <i>L.monocytogenes</i> | + | 9406 | 2.54 | + | +HA | +MA | <i>L.monocytogenes</i> | + | PA |
| 2006 | O16 | Mimolette | Mimolette | | d1 | sp | 11.2 | -LE | -LE | +HB | +MA | <i>L.monocytogenes</i> | + | 10521 | 2.69 | + | +HB | +MA | <i>L.monocytogenes</i> | + | PA |
| 2018 | 9 | Fromage au lait de vache | Cow cheese | ∅ | d1 | se | 2 | 2h+L | 2h+L | 3h+L | 3h+L | <i>L.monocytogenes</i> | + | 7538 | 1.92 | + | 2h+∅ | 1L | <i>L.monocytogenes</i> | + | PA |
| 2018 | 11 | Fromage au lait de vache | Cow cheese | ∅ | d1 | se | 2 | 2h+L | 1h+∅ | 2h+L | 2h+L | <i>L.monocytogenes</i> | + | 4854 | 1.23 | + | 1h+∅ | 1L | <i>L.monocytogenes</i> | + | PA |
| 2018 | 13 | Saint Nectaire | Saint Nectaire | ∅ | d1 | se | 2 | 2h+L | 2h+L | 3h+L | 3h+L | <i>L.monocytogenes</i> | + | 10533 | 2.68 | + | 2h+∅ | 2L | <i>L.monocytogenes</i> | + | PA |
| 2006 | R10 | Chabichou | Chabichou | | d2 | sp | mix | +LA(1) | ∅ | +HA | +MB | <i>L.monocytogenes</i> | + | 365 | 0.09 | + | +MA | +MA | <i>L.monocytogenes</i> | + | PA |
| 2006 | J3 | Etoriki | Etoriki | | d2 | sp | 2.6 | +LA(1) | +LB | +HA | +MB | <i>L.monocytogenes</i> | + | 10964 | 2.88 | + | +MA | +MA | <i>L.monocytogenes</i> | + | PA |

Dairy products

| Year | Code | Matrices (french name) | Matrices | Cat. | AC | level of conta. | EN ISO 11290-1 method | | | | | | VIDAS LMO2 method | | | | | | Comparison | | |
|------|------|-----------------------------|------------------------|------|----|-----------------|-----------------------|-----------------------------|--------|---------------------------------|----------------|------------------------|-------------------|-------|-------------|--------------|-----------------------------------|----------------|------------------------|--------------|----|
| | | | | | | | Half Fraser | | Fraser | | Confirmation | | VIDAS LMO2 | | | Confirmation | | | | Final result | |
| | | | | | | | P1 | OX1(2002) OA1(2006,2018) | P2 | OX1/OA2(2002) OA2(2006,2018) | Identification | Result | RFV | TV | Test result | PAL | OX/Chromo(2002) OAA(2006,2018) | Identification | | | |
| 2006 | O18 | Petit Billy | Little Billy | | d2 | sp | 2.7 | +LA | +LA | +HA | +MA | <i>L.monocytogenes</i> | + | 8171 | 2.09 | + | +HA | +HA | <i>L.monocytogenes</i> | + | PA |
| 2006 | K17 | Bûche de chèvre pasteurisée | Pasteurized goat's log | | d2 | sp | 3.2 | +LA | +LA | +HA | +MA | <i>L.monocytogenes</i> | + | 7984 | 1.99 | + | +HA | +MA | <i>L.monocytogenes</i> | + | PA |
| 2006 | O20 | Crème de chèvre | Goat cream | | d2 | sp | 3.6 | ∅ | +LA(2) | +MA | +MA | <i>L.monocytogenes</i> | + | 8512 | 2.18 | + | +HA | +MA | <i>L.monocytogenes</i> | + | PA |
| 2006 | S5 | Chabichou | Chabichou | | d2 | sp | 4 | +LA | +LA | +HB | +MA | <i>L.monocytogenes</i> | + | 9157 | 2.47 | + | +HA | +MA | <i>L.monocytogenes</i> | + | PA |
| 2006 | S7 | Chèvre pasteurisé | Pasteurized goat | | d2 | sp | 7.6 | +LA | +LA | +HA | +HA | <i>L.monocytogenes</i> | + | 9276 | 2.51 | + | +HA | +HA | <i>L.monocytogenes</i> | + | PA |
| 2006 | S6 | Ste Maure | St. Maure | | d2 | sp | 11.4 | +LB | +MA | +HB | +MA | <i>L.monocytogenes</i> | + | 11370 | 3.07 | + | +MA | +MA | <i>L.monocytogenes</i> | + | PA |
| 2018 | 15 | Fromage au lait de chèvre | Goat cheese | ∅ | d2 | se | 2.4 | 2h+L | 3h+∅ | 3h+L | 4h+L | <i>L.monocytogenes</i> | + | 12486 | 3.18 | + | 2h+∅ | 2L | <i>L.monocytogenes</i> | + | PA |
| 2018 | 17 | Fromage au lait de brebis | Ewe cheese | ∅ | d2 | se | 2.4 | 2h+L | 2h+L | 3h+L | 3h+L | <i>L.monocytogenes</i> | + | 12239 | 3.12 | + | 3h+∅ | 2L | <i>L.monocytogenes</i> | + | PA |
| 2006 | K2 | Coupe profiteroles | Cup profiteroles | | d3 | No | / | +MA | +MA | +MA | +MA | <i>L.monocytogenes</i> | + | 8534 | 2.13 | + | +HA | +HA | <i>L.monocytogenes</i> | + | PA |
| 2006 | L10 | Coupe profiterolles | Cup profiteroles | | d3 | No | / | +MA | +MA | +HA | +MA | <i>L.monocytogenes</i> | + | 8186 | 2.04 | + | +MA | +HA | <i>L.monocytogenes</i> | + | PA |
| 2006 | U8 | Lait | Milk | | d3 | No | / | +MA | +MA | +HA | +MA | <i>L.monocytogenes</i> | + | 10768 | 2.78 | + | +HA | +MA | <i>L.monocytogenes</i> | + | PA |
| 2006 | L12 | Lait pasteurisé | Pasteurized milk | | d3 | sp | mix | +MA | +MA | +HA | +MA | <i>L.monocytogenes</i> | + | 10143 | 2.53 | + | +HA | +MA | <i>L.monocytogenes</i> | + | PA |
| 2006 | K6 | Lait pasteurisé | Pasteurized milk | | d3 | sp | 3.2 | +LA | +LA | +HA | +MA | <i>L.monocytogenes</i> | + | 10224 | 2.55 | + | +HA | +MA | <i>L.monocytogenes</i> | + | PA |
| 2006 | K9 | Lait en poudre | Powdered milk | | d3 | sp | 4 | +LA | +LA | +MA | +MA | <i>L.monocytogenes</i> | + | 8574 | 2.14 | + | +HA | +MA | <i>L.monocytogenes</i> | + | PA |
| 2006 | O21 | Flan aux œufs | Egg flan | | d3 | sp | 7 | +LA | +LA | +HA | +MA | <i>L.monocytogenes</i> | + | 9841 | 2.52 | + | +HA | +MA | <i>L.monocytogenes</i> | + | PA |
| 2006 | K5 | Lait pasteurisé | Pasteurized milk | | d3 | sp | 20.6 | +MA | +LA | +HA | +MA | <i>L.monocytogenes</i> | + | 9329 | 2.32 | + | +HA | +MA | <i>L.monocytogenes</i> | + | PA |
| 2018 | 19 | Poudre de lait écrémé | Skimmed milk powder | ∅ | d3 | se | 2.2 | 3h+∅ | 2h+L | 3h+∅ | 3h+∅ | <i>L.monocytogenes</i> | + | 10520 | 2.68 | + | 3h+∅ | 3∅ | <i>L.monocytogenes</i> | + | PA |
| 2018 | 21 | Lait UHT écrémé | Skimmed UHT milk | ∅ | d3 | se | 2.2 | 3h+∅ | 2h+L | 3h+∅ | 3h+∅ | <i>L.monocytogenes</i> | + | 11605 | 2.96 | + | 3h+∅ | 3∅ | <i>L.monocytogenes</i> | + | PA |

Seafood products

| Year | Code | Matrices (french name) | Matrices | Cat. | AC | level of conta. | EN ISO 11290-1 method | | | | | | VIDAS LMO2 method | | | | | | Final result | Comparison |
|------|------|--------------------------------------|---------------------------------|------|----|-----------------|-----------------------|---------------------------|--------|-------------------------------|------------------------|--------|-------------------|------|-------------|--------------|---------------------------------|------------------------|--------------|------------|
| | | | | | | | Half Fraser | | Fraser | | Confirmation | | VIDAS LMO2 | | | Confirmation | | | | |
| | | | | | | | P1 | OX1(2002) OA1(2006,2 018) | P2 | OX1/OA2(2002) OA2(2006, 2018) | Identification | Result | RFV | TV | Test result | PAL | OX/Chromo(2002) OAA(2006, 2018) | Identification | | |
| 2006 | L13 | Crevettes | shrimps | s1 | No | / | Ø | -LE | Ø | Ø | / | - | -1 | 0.00 | - | / | / | / | - | NA |
| 2006 | L14 | Crevettes | shrimps | s1 | No | / | Ø | Ø | Ø | Ø | / | - | 0 | 0.00 | - | / | / | / | - | NA |
| 2006 | L16 | Crevettes | shrimps | s1 | No | / | Ø | -LE | -LE | -LE | / | - | 1 | 0.00 | - | / | / | / | - | NA |
| 2006 | M25 | Coquilles St Jacques | St Jacques shells | s1 | sp | 5.0 | Ø | -LE | Ø | Ø | / | - | -1 | 0.00 | - | Ø | Ø | / | - | NA |
| 2006 | O1 | Bulots cuits | Cooked buds | s1 | sp | 1.4 | Ø | -LE | Ø | Ø | / | - | -2 | 0.00 | - | / | / | / | - | NA |
| 2006 | O2 | Crevettes grises | Grey shrimp | s1 | sp | 1.1 | Ø | -ME | Ø | Ø | / | - | -1 | 0.00 | - | / | / | / | - | NA |
| 2006 | Q5 | Gambas | Gambas | s1 | sp | 0.4 | -ME | -ME | Ø | -ME | / | - | 1 | 0.00 | - | / | / | / | - | NA |
| 2006 | Q6 | Crevettes | shrimps | s1 | sp | 0.3 | Ø | -LE | -ME | -LE | / | - | -3 | 0.00 | - | / | / | / | - | NA |
| 2006 | R13 | Queues d'écrevisses sous-vide | Crayfish tails under vacuum | s1 | sp | 0.5 | Ø | -ME | Ø | -LE | / | - | -2 | 0.00 | - | / | / | / | - | NA |
| 2006 | R27 | Ecrevisses marinées | Marinated crawfish | s1 | No | / | -LE | -LE | Ø | Ø | / | - | -3 | 0.00 | - | / | / | / | - | NA |
| 2006 | R28 | Ecrevisses marinées | Marinated crawfish | s1 | No | / | -LE | Ø | -LE | -LE | / | - | -3 | 0.00 | - | / | / | / | - | NA |
| 2006 | T2 | Tourteau | oilcake | s1 | sp | ND | Ø | -LE | Ø | Ø | / | - | -2 | 0.00 | - | / | / | / | - | NA |
| 2006 | T3 | Crevettes | shrimps | s1 | sp | ND | -LE | -LE | Ø | -LE | / | - | -2 | 0.00 | - | / | / | / | - | NA |
| 2006 | O3 | Terrine de saumon | Salmon terrine | s2 | sp | 1.1 | Ø | Ø | Ø | -LE | / | - | -1 | 0.00 | - | / | / | / | - | NA |
| 2006 | O4 | Terrine de saumon aux pistaches | Salmon terrine with pistachios | s2 | sp | 0.8 | Ø | Ø | Ø | Ø | / | - | -1 | 0.00 | - | / | / | / | - | NA |
| 2006 | P1 | Rillettes de la mer | Rillettes of the sea | s2 | sp | 3.8 | Ø | Ø | Ø | Ø | / | - | -2 | 0.00 | - | / | / | / | - | NA |
| 2006 | Q23 | Terrine de St Jacques | Terrine of St Jacques | s2 | No | / | Ø | Ø | Ø | Ø | / | - | 4 | 0.00 | - | / | / | / | - | NA |
| 2006 | Q24 | Rillettes de la mer | Rillettes of the sea | s2 | No | / | Ø | Ø | Ø | Ø | / | - | -3 | 0.00 | - | / | / | / | - | NA |
| 2006 | Q25 | Terrine St Jacques écrevisses | Terrine St Jacques crayfish | s2 | No | / | Ø | Ø | Ø | Ø | / | - | 0 | 0.00 | - | / | / | / | - | NA |
| 2006 | Q26 | Rillettes de thon | Tuna rillettes | s2 | No | / | Ø | Ø | Ø | Ø | / | - | -2 | 0.00 | - | / | / | / | - | NA |
| 2006 | Q7 | Rillettes de saumon | Salmon Rillettes | s2 | sp | 0.2 | Ø | Ø | Ø | Ø | / | - | 1 | 0.00 | - | / | / | / | - | NA |
| 2018 | 16 | Rillettes de truite | Trout rilette | Ø | s2 | No | / | OL | OL | ØØ | / | - | -1 | 0.00 | - | ØØ | ØØ | / | - | NA |
| 2018 | 18 | Rillettes de saumon | Salmon rilette | Ø | s2 | No | / | OL | OL | ØØ | / | - | -4 | 0.00 | - | ØØ | ØØ | / | - | NA |
| 2006 | P4 | Hachis de thon aux poivrons | Tuna hake with peppers | s3 | sp | 5.0 | Ø | Ø | -ME | Ø | / | - | -1 | 0.00 | - | / | / | / | - | NA |
| 2006 | M28 | Aile de raie | Skate wing | s3 | No | / | Ø | -LE | Ø | Ø | / | - | -2 | 0.00 | - | / | / | / | - | NA |
| 2006 | N7 | Coquilles St Jacques béchamel | St Jacques scallops bechamel | s3 | sp | 5.0 | Ø | Ø | Ø | -LE | / | - | -2 | 0.00 | - | / | / | / | - | NA |
| 2006 | O6 | Thon mayonnaise | Tuna mayonnaise | s3 | sp | 1.1 | Ø | -LE | Ø | -LE | / | - | -2 | 0.00 | - | / | / | / | - | NA |
| 2006 | Q27 | Waterzoi de poisson | Waterzai of fish | s3 | No | / | Ø | -LE | Ø | Ø | / | - | Ø | 0.00 | - | / | / | / | - | NA |
| 2006 | R29 | Calamars à l'Armoricaine | Calamari with Armorican | s3 | No | / | -LE | -LE | -LE | Ø | / | - | -1 | 0.00 | - | / | / | / | - | NA |
| 2006 | S13 | Filet de raie sauce crabe | Stripe fillet with crab sauce | s3 | No | / | Ø | Ø | Ø | Ø | / | - | 0 | 0.00 | - | / | / | / | - | NA |
| 2006 | S14 | Lotte à l'Armoricaine | Lotte to the Armorican | s3 | No | / | -LE | Ø | -LE | Ø | / | - | -1 | 0.00 | - | / | / | / | - | NA |
| 2006 | S15 | Blanquette de poisson | Blanquette of fish | s3 | No | / | Ø | -LE | Ø | -LE | / | - | -2 | 0.00 | - | / | / | / | - | NA |
| 2006 | T5 | Méli-mélo saumon, légumes, pâtes | Salad mix, vegetables, pasta | s3 | No | / | Ø | Ø | Ø | Ø | / | - | -3 | 0.00 | - | / | / | / | - | NA |
| 2006 | T6 | Lasagnes au saumon | Lasagna with salmon | s3 | No | / | Ø | Ø | Ø | Ø | / | - | -3 | 0.00 | - | / | / | / | - | NA |
| 2006 | T7 | Saumon cuit | Cooked salmon | s3 | No | / | Ø | Ø | Ø | Ø | / | - | -3 | 0.00 | - | / | / | / | - | NA |
| 2006 | L15 | Crevettes | shrimps | s1 | No | / | +MA | +MB | +HA | +MA | <i>L.monocytogenes</i> | + | 8403 | 2.09 | + | +HA | +MA | <i>L.monocytogenes</i> | + | PA |
| 2006 | T1 | Grosses crevettes | Large shrimp | s1 | No | / | +MA | +MB | +HA | +HA | <i>L.monocytogenes</i> | + | 2808 | 0.72 | + | +MA | +LA | <i>L.monocytogenes</i> | + | PA |
| 2006 | R14 | Crevettes décortiquées | Shrimp shrimp | s1 | sp | 0.8 | Ø | -ME | +HA | +MA | <i>L.monocytogenes</i> | + | 1 | 0.00 | - | +LA | +LB | <i>L.monocytogenes</i> | - | ND |
| 2006 | M18 | Pinces de crabe | Crab tongs | s1 | sp | 3.0 | +LA | +MD | +MA | +MA | <i>L.monocytogenes</i> | + | 9922 | 2.60 | + | +HA | +MA | <i>L.monocytogenes</i> | + | PA |
| 2006 | N5 | Tourteau | oilcake | s1 | sp | 3.1 | Ø | +LC(1) | +HA | +MA | <i>L.monocytogenes</i> | + | 9362 | 2.40 | + | +HA | +HA | <i>L.monocytogenes</i> | + | PA |
| 2006 | N14 | Homard | lobster | s1 | sp | 4.3 | +LA(2) | +LD(1) | +HA | +MB | <i>L.monocytogenes</i> | + | 9381 | 2.40 | + | +HA | +MB | <i>L.monocytogenes</i> | + | PA |
| 2006 | M17 | Bulots | whelks | s1 | sp | 5.0 | +MA | +MB | +HA | +MA | <i>L.monocytogenes</i> | + | 8540 | 2.24 | + | +HA | +MA | <i>L.monocytogenes</i> | + | PA |
| 2006 | N6 | Crevettes grises | Grey shrimp | s1 | sp | 6.0 | +MD(2) | -LE | +HA | +MB | <i>L.monocytogenes</i> | + | 9602 | 2.20 | + | +HA | +HA | <i>L.monocytogenes</i> | + | PA |
| 2006 | N15 | Bigorneaux | winkles | s1 | sp | 7.5 | Ø | -ME | Ø | Ø | / | - | 6494 | 1.66 | + | +MA | +MA | <i>L.monocytogenes</i> | + | PD |
| 2006 | M16 | Crevettes | shrimps | s1 | sp | 8.0 | +MD | +MB | +HB | +MA | <i>L.monocytogenes</i> | + | 9898 | 2.59 | + | +MA | +MA | <i>L.monocytogenes</i> | + | PA |
| 2006 | Q8 | Terrine de saumon | Salmon terrine | s2 | sp | 0.3 | +LA(1) | +LA(1) | +HA | +MA | <i>L.monocytogenes</i> | + | 10518 | 2.69 | + | +HA | +MA | <i>L.monocytogenes</i> | + | PA |
| 2006 | R15 | Terrine de St Jacques | Terrine of St Jacques | s2 | sp | 0.4 | Ø | Ø | +HA | +MA | <i>L.monocytogenes</i> | + | 9025 | 2.35 | + | +HB | +MB | <i>L.monocytogenes</i> | + | PA |
| 2006 | O5 | Terrine de thon | Tuna terrine | s2 | sp | 0.7 | Ø | Ø | +HB | +MA | <i>L.monocytogenes</i> | + | 10433 | 2.67 | + | +LD | +LD | <i>L.monocytogenes</i> | + | PA |
| 2006 | P3 | Terrine de saumon aux légumes | Salmon terrine with vegetables | s2 | sp | 2.5 | Ø | Ø | +HA | +MA | <i>L.monocytogenes</i> | + | 8701 | 2.23 | + | +MA | +MA | <i>L.monocytogenes</i> | + | PA |
| 2006 | N11 | Terrine de saumon | Salmon terrine | s2 | sp | 3.1 | +LB(5) | +LB | +HA | +MA | <i>L.monocytogenes</i> | + | 10595 | 2.71 | + | +HA | +HA | <i>L.monocytogenes</i> | + | PA |
| 2006 | N12 | Terrine de crabe | Shrimp soup | s2 | sp | 3.8 | +LA | +LA | +HA | +MA | <i>L.monocytogenes</i> | + | 7588 | 1.94 | + | +HA | +MA | <i>L.monocytogenes</i> | + | PA |
| 2006 | P2 | Terrine de saumon à la crème fraiche | Salmon terrine with fresh cream | s2 | sp | 3.8 | +LA(4) | Ø | +HA | +MA | <i>L.monocytogenes</i> | + | 11500 | 2.94 | + | +MA | +MA | <i>L.monocytogenes</i> | + | PA |

Seafood products

| Year | Code | Matrices (french name) | Matrices | Cat. | AC | level of conta. | EN ISO 11290-1 method | | | | | | VIDAS LMO2 method | | | | | | Comparison | | |
|------|------|----------------------------------|---|------|----|-----------------|-----------------------|--------------------------|--------|------------------------------|----------------|------------------------|-------------------|-------|-------------|--------------|--------------------------------|----------------|------------------------|--------------|----|
| | | | | | | | Half Fraser | | Fraser | | Confirmation | | VIDAS LMO2 | | | Confirmation | | | | Final result | |
| | | | | | | | P1 | OX1(2002) OA1(2006,2018) | P2 | OX1/OA2(2002) OA2(2006,2018) | Identification | Result | RFV | TV | Test result | PAL | OX/Chromo(2002) OAA(2006,2018) | Identification | | | |
| 2018 | 23 | Crevettes marinées ail et persil | Marinated shrimps with garlic and parsley | Ø | s2 | No | / | 3h+L | 3L | 3h+Ø | 3Ø | <i>L.monocytogenes</i> | + | 9894 | 2.52 | + | 3h+Ø | 3Ø | <i>L.monocytogenes</i> | + | PA |
| 2018 | 25 | Thon provençal | Provençal tuna | Ø | s2 | No | / | 3h+L | 3L | 3h+Ø | 3Ø | <i>L.monocytogenes</i> | + | 11995 | 3.06 | + | 3h+Ø | 3Ø | <i>L.monocytogenes</i> | + | PA |
| 2018 | 27 | Salmon with sorrel sauce | Salmon with sorrel sauce | Ø | s2 | se | 2.6 | 3h+L | 3L | 3h+Ø | 3Ø | <i>L.monocytogenes</i> | + | 11741 | 2.99 | + | 3h+Ø | 3Ø | <i>L.monocytogenes</i> | + | PA |
| 2002 | 2002 | Tartare de thon | Tuna tartar sauce | | s3 | No | | +LA | +HC | +HA | +HA | <i>L.monocytogenes</i> | + | | 0.15 | + | +HB | +HB / +HA | <i>L.monocytogenes</i> | + | PA |
| 2002 | 2002 | Tartare de thon | Tuna tartar sauce | | s3 | No | | +LA | +LC | +HB | +HB / +HA | <i>L.monocytogenes</i> | + | | 0.22 | + | +HB | +HB / +HA | <i>L.monocytogenes</i> | + | PA |
| 2006 | P30 | Tarama | Tarama | | s3 | No | | Ø | Ø | +HA | +MA | <i>L.monocytogenes</i> | + | 10235 | 2.62 | + | +MA | +MA | <i>L.monocytogenes</i> | + | PA |
| 2006 | R16 | Filet de poisson en sauce | Fillet of fish in sauce | | s3 | sp | 0.5 | +LB | +LB | +HA | +HA | <i>L.monocytogenes</i> | + | 10456 | 2.73 | + | +HA | +HA | <i>L.monocytogenes</i> | + | PA |
| 2006 | O7 | Paella aux fruits de mer | Paella with seafood | | s3 | sp | 1.1 | +MA | +MA | +HB | +MA | <i>L.monocytogenes</i> | + | 7952 | 2.03 | + | +HA | +MA | <i>L.monocytogenes</i> | + | PA |
| 2006 | M15 | Paupiettes de saumon | Salmon Paupiettes | | s3 | sp | 3.0 | +MA | +MA | +HA | +HA | <i>L.monocytogenes</i> | + | 8748 | 2.29 | + | +HA | +MA | <i>L.monocytogenes</i> | + | PA |
| 2006 | N8 | Waterzoï de poisson | Waterzoi of fish | | s3 | sp | 3.1 | Ø | Ø | Ø | Ø | / | - | 1346 | 0.34 | + | +MA | +LA | <i>L.monocytogenes</i> | + | PD |
| 2006 | N13 | Tajine de poisson | Fish Tajine | | s3 | sp | 3.7 | Ø | Ø | +MA | +MA | <i>L.monocytogenes</i> | + | 146 | 0.03 | - | +MA | +LA | <i>L.monocytogenes</i> | - | ND |
| 2006 | M13 | Pavé de saumon sauce oseille | Salmon steak with sorrel sauce | | s3 | sp | 5.0 | +LA | +MA | +HB | +MA | <i>L.monocytogenes</i> | + | 9724 | 2.55 | + | +HA | +MA | <i>L.monocytogenes</i> | + | PA |
| 2006 | M14 | Waterzoï de poisson | Waterzoi of fish | | s3 | sp | 5.0 | +MA | +MA | +HA | +MA | <i>L.monocytogenes</i> | + | 9994 | 2.62 | + | +HA | +MA | <i>L.monocytogenes</i> | + | PA |
| 2006 | N9 | Brochette de poisson au curry | Curry fish skewer | | s3 | sp | 6.0 | +LA | +LA | +HA | +MA | <i>L.monocytogenes</i> | + | 8624 | 2.21 | + | +MA | +MA | <i>L.monocytogenes</i> | + | PA |
| 2006 | N10 | Salade de thon | Tuna salad | | s3 | sp | 7.5 | +LA | +LA | +HA | +MA | <i>L.monocytogenes</i> | + | 7563 | 1.93 | + | +HA | +MA | <i>L.monocytogenes</i> | + | PA |
| 2006 | M12 | Aile de raie | Skate wing | | s3 | sp | 8.0 | +MA | +MA | +HA | +MA | <i>L.monocytogenes</i> | + | 8738 | 2.29 | + | +HA | +MA | <i>L.monocytogenes</i> | + | PA |

Vegetable

| Year | Code | Matrices (french name) | Matrices | Cat. | AC | level of conta. | EN ISO 11290-1 method | | | | | | VIDAS LMO2 method | | | | | | Comparison | |
|------|------|--------------------------------------|-------------------------------|------|----|-----------------|-----------------------|---------------------------|--------|-------------------------------|------------------------|--------|-------------------|-------|-------------|--------------|---------------------------------|------------------------|------------|--------------|
| | | | | | | | Half Fraser | | Fraser | | Confirmation | | VIDAS LMO2 | | | Confirmation | | | | Final result |
| | | | | | | | P1 | OX1(2002) OA1(2006, 2018) | P2 | OX1/OA2(2002) OA2(2006, 2018) | Identification | Result | RFV | TV | Test result | PAL | OX/Chromo(2002) OAA(2006, 2018) | Identification | | |
| 2002 | 2002 | Frites surgelées | Frozen french fries | v1 | No | / | Ø | Ø | Ø | Ø | / | - | 0.00 | - | / | / | / | - | NA | |
| 2002 | 2002 | Frites surgelées | Frozen french fries | v1 | No | / | Ø | -LE | -LE | Ø | / | - | 0.00 | - | / | / | / | - | NA | |
| 2006 | M19 | Frites surgelées | Frozen french fries | v1 | No | / | -LE | -LE | -LE | -LE | / | - | -4 | 0.00 | - | -ME | -ME | / | NA | |
| 2006 | L18 | Frites surgelées | Frozen french fries | v1 | No | / | -LE | -ME | Ø | -ME | / | - | -3 | 0.00 | - | / | / | / | NA | |
| 2006 | P25 | Frites surgelées | Frozen french fries | v1 | No | / | -LE | -LE | -ME | -ME | / | - | -3 | 0.00 | - | / | / | / | NA | |
| 2006 | R19 | Pommes de terre rissolées | Hash browns | v1 | No | / | -LE | Ø | -ME | Ø | / | - | -3 | 0.00 | - | / | / | / | NA | |
| 2006 | L19 | Frites surgelées | Frozen french fries | v1 | No | / | Ø | -LE | Ø | -ME | / | - | -2 | 0.00 | - | / | / | / | NA | |
| 2006 | L20 | Frites surgelées | Frozen french fries | v1 | No | / | -LE | -ME | -ME | -ME | / | - | -2 | 0.00 | - | / | / | / | NA | |
| 2006 | O25 | Pommes de terre cuisinées | Cooked potatoes | v1 | sp | 0.69 | -LE | Ø | -ME | Ø | / | - | -2 | 0.00 | - | / | / | / | NA | |
| 2006 | P23 | Frites surgelées | Frozen french fries | v1 | No | / | Ø | Ø | Ø | Ø | / | - | -1 | 0.00 | - | / | / | / | NA | |
| 2006 | Q14 | Pommes de terre rissolées | Hash browns | v1 | No | / | Ø | Ø | Ø | Ø | / | - | -1 | 0.00 | - | / | / | / | NA | |
| 2006 | P27 | Frites surgelées | Frozen french fries | v1 | No | / | Ø | Ø | Ø | Ø | / | - | 0 | 0.00 | - | / | / | / | NA | |
| 2006 | Q13 | Frites surgelées | Frozen french fries | v1 | No | / | Ø | -ME | -ME | -ME | / | - | 0 | 0.00 | - | / | / | / | NA | |
| 2006 | R17 | Frites surgelées | Frozen french fries | v1 | sp | ND | Ø | Ø | Ø | Ø | / | - | 0 | 0.00 | - | / | / | / | NA | |
| 2006 | O26 | Frites surgelées | Frozen french fries | v1 | sp | 0.86 | Ø | -ME | Ø | -LE | / | - | 1 | 0.00 | - | / | / | / | NA | |
| 2006 | M29 | Pommes de terres cuisinées | Cooked potatoes | v1 | No | / | Ø | Ø | Ø | -LE | / | - | 5 | 0.00 | - | / | / | / | NA | |
| 2002 | 2002 | Poêlée méridionale | Southern stir-fry | v2 | No | / | Ø | Ø | -ME | -LE | / | - | 0.00 | - | / | / | / | - | NA | |
| 2002 | 2002 | Poêlée de champignons | Sautéed mushrooms | v2 | No | / | -LE | -LE | -LE | -LE | / | - | 0.00 | - | / | / | / | - | NA | |
| 2002 | 2002 | Poêlée de légumes | Fried vegetables | v2 | No | / | Ø | -LE | Ø | -ME | / | - | 0.00 | - | / | / | / | - | NA | |
| 2002 | 2002 | Betteraves rouges | Red beets | v2 | No | / | Ø | -LE | Ø | -HE | / | - | 0.00 | - | / | / | / | - | NA | |
| 2006 | N19 | Mélange de légumes | Mix of vegetables | v2 | sp | <1 | -ME | -ME | -ME | -ME | / | - | -3 | 0.00 | - | / | / | / | NA | |
| 2006 | N18 | Poêlée méridionale | Southern stir-fry | v2 | sp | <1 | Ø | Ø | Ø | Ø | / | - | -2 | 0.00 | - | / | / | / | NA | |
| 2006 | Q12 | Ratatouille | Ratatouille | v2 | sp | 1.8 | Ø | -LE | -LE | Ø | / | - | -2 | 0.00 | - | / | / | / | NA | |
| 2006 | T4 | Courgettes | Zucchini | v2 | sp | ND | -LE | Ø | Ø | Ø | / | - | -2 | 0.00 | - | / | / | / | NA | |
| 2006 | O23 | Poêlée champêtre | Pan-fried country | v2 | sp | 0.69 | -LE | -LE | Ø | -LE | / | - | -1 | 0.00 | - | / | / | / | NA | |
| 2006 | R25 | Mélange provençal | Provençal blend | v2 | sp | ND | -LE | -LE | -LE | -LE | / | - | -1 | 0.00 | - | / | / | / | NA | |
| 2006 | Q28 | Poêlée romaine | Roman pan-fried | v2 | No | / | -LE | -LE | -LE | Ø | / | - | 0 | 0.00 | - | / | / | / | NA | |
| 2006 | N17 | Poêlée champêtre | Pan-fried country | v2 | sp | 7 | Ø | -LE | Ø | -LE | / | - | 1 | 0.00 | - | / | / | / | NA | |
| 2006 | Q11 | Jardinière de légumes | Vegetable gardener | v2 | sp | 2.4 | Ø | Ø | Ø | -ME | / | - | 2 | 0.00 | - | / | / | / | NA | |
| 2006 | N20 | Epinards à la crème | Spinach with cream | v2 | sp | 7 | Ø | -ME | Ø | -ME | / | - | -4 | 0.00 | - | / | / | / | NA | |
| 2006 | N23 | Courgette à la provençale | Provençal zucchini | v2 | sp | <1 | -ME | -ME | -HE | -ME | / | - | -4 | 0.00 | - | / | / | / | NA | |
| 2006 | R26 | Carottes Vichy | Vichy carrots | v2 | sp | ND | Ø | Ø | -LE | -LE | / | - | -1 | 0.00 | - | / | / | / | NA | |
| 2002 | 2002 | Taboulé | tabbouleh | v3 | No | / | -LE | -ME | -HE | -HE | / | - | 0.00 | - | / | / | / | - | NA | |
| 2006 | R24 | Petits pois surgelés | Frozen peas | v3 | sp | ND | -LE | -LE | -LE | -LE | / | - | -3 | 0.00 | - | / | / | / | NA | |
| 2006 | S11 | Galettes brocolis carottes | Carrot broccoli cakes | v3 | sp | 2.4 | Ø | Ø | -ME | Ø | / | - | -3 | 0.00 | - | / | / | / | NA | |
| 2006 | N21 | Riz safrané aux petits légumes | Saffron rice with vegetables | v3 | sp | 5.6 | -LE | -ME | -HE | -ME | / | - | -2 | 0.00 | - | / | / | / | NA | |
| 2006 | O24 | Purée toscane | Tuscan puree | v3 | sp | 0.43 | Ø | Ø | Ø | Ø | / | - | -2 | 0.00 | - | / | / | / | NA | |
| 2006 | N24 | Purée de haricots verts | Mashed green beans | v3 | sp | <1 | -LE | -ME | -LE | -LE | / | - | -1 | 0.00 | - | / | / | / | NA | |
| 2006 | O22 | Galettes surgelées poireaux carottes | Frozen pancakes leeks carrots | v3 | sp | 0.86 | -LE | -LE | -ME | -ME | / | - | -1 | 0.00 | - | / | / | / | NA | |
| 2018 | 20 | Petits pois congelés | frozen peas | v3 | No | / | ØL | ØL | ØØ | ØØ | / | - | -4 | 0.00 | - | ØØ | ØØ | / | NA | |
| 2006 | R18 | Pommes frites | French fries | v1 | No | / | +MB | +MA | +MB | +MB | <i>L.monocytogenes</i> | + | 7156 | 1.87 | + | +HB | +MA | <i>L.monocytogenes</i> | + | PA |
| 2006 | P24 | Pommes de terre rissolées | Hash browns | v1 | No | / | +LA | +LB | +MB | +MB | <i>L.monocytogenes</i> | + | 7543 | 1.793 | + | +MB | +MA | <i>L.monocytogenes</i> | + | PA |
| 2006 | L17 | Frites surgelées | Frozen french fries | v1 | No | / | +MB | +MB | +HB | +MB | <i>L.monocytogenes</i> | + | 8102 | 2.02 | + | +HA | +HB | <i>L.monocytogenes</i> | + | PA |
| 2006 | P26 | Pommes de terre rissolées | Hash browns | v1 | No | / | +MB | +MA | +MB | +MA | <i>L.monocytogenes</i> | + | 8295 | 2.12 | + | +HA | +MA | <i>L.monocytogenes</i> | + | PA |
| 2006 | U4 | Frites surgelées | Frozen french fries | v1 | No | / | +MA | +MA | +HA | +HA | <i>L.monocytogenes</i> | + | 10950 | 2.83 | + | +HA | +HA | <i>L.monocytogenes</i> | + | PA |
| 2002 | 2002 | Pommes de terres rissolées surgelées | Frozen pickled potatoes | v1 | No | / | +MA | +MA | +HB | +HB / +HA | <i>L.monocytogenes</i> | + | | 1.79 | + | +HA | +HA / +HB | <i>L.monocytogenes</i> | + | PA |
| 2002 | 2002 | Pommes de terres rissolées surgelées | Frozen pickled potatoes | v1 | No | / | +MA | +MA | +HA | +HB / +MB | <i>L.monocytogenes</i> | + | | 2.02 | + | +HA | +HA | <i>L.monocytogenes</i> | + | PA |
| 2006 | R20 | Pommes de terre rissolées | Hash browns | v1 | sp | mix | +HA | +HA | +HA | +HA | <i>L.monocytogenes</i> | + | 8969 | 2.34 | + | +HA | +HA | <i>L.monocytogenes</i> | + | PA |
| 2006 | R21 | Frites surgelées | Frozen french fries | v1 | sp | mix | +HA | +HA | +HA | +HA | <i>L.monocytogenes</i> | + | 9076 | 2.37 | + | +HA | +HA | <i>L.monocytogenes</i> | + | PA |
| 2006 | S10 | Frites surgelées | Frozen french fries | v1 | sp | 3.6 | +MB | +MC | +MB | +MD | <i>L.monocytogenes</i> | + | 8795 | 2.38 | + | +HA | +MC | <i>L.monocytogenes</i> | + | PA |
| 2002 | 2002 | Epinards à la crème | Spinach with cream | v2 | No | / | +MB | +MB | +HB | +HB | <i>L.monocytogenes</i> | + | | 2.86 | + | +HB | +HB | <i>L.monocytogenes</i> | + | PA |
| 2006 | P17 | Légumes pour pot au feu | Vegetables for pot au feu | v2 | sp | mix | +MA | +MA | +MA | +MA | <i>L.monocytogenes</i> | + | 8351 | 2.14 | + | +HA | +MA | <i>L.monocytogenes</i> | + | PA |
| 2006 | P18 | Macédoine de légumes | mixed vegetables | v2 | sp | mix | +MA | +MA | +HA | +HA | <i>L.monocytogenes</i> | + | 8725 | 2.23 | + | +MA | +MA | <i>L.monocytogenes</i> | + | PA |
| 2006 | R23 | Jardinière de légumes | Vegetable gardener | v2 | sp | mix | +MA | +MA | +MB | +MB | <i>L.monocytogenes</i> | + | 9348 | 2.44 | + | +HA | +MA | <i>L.monocytogenes</i> | + | PA |
| 2006 | R22 | Ratatouille | Ratatouille | v2 | sp | mix | +HA | +HA | +HB | +HB | <i>L.monocytogenes</i> | + | 9405 | 2.45 | + | +HA | +MA | <i>L.monocytogenes</i> | + | PA |

Vegetable

| Year | Code | Matrices (french name) | Matrices | Cat. | AC | level of conta. | EN ISO 11290-1 method | | | | | | VIDAS LMO2 method | | | | | | Comparison | | |
|------|------|---|------------------------------------|------|----|-----------------|-----------------------|---------------------------------|--------|----------------------------------|----------------|------------------------|-------------------|-------|-------------|--------------|------------------------------------|----------------|------------------------|--------------|----|
| | | | | | | | Half Fraser | | Fraser | | Confirmation | | VIDAS LMO2 | | | Confirmation | | | | Final result | |
| | | | | | | | P1 | OX1(2002) OA1(2006, 2018) | P2 | OX1/OA2(2002) OA2(2006, 2018) | Identification | Result | RFV | TV | Test result | PAL | OX/Chromo(2002) OAA(2006, 2018) | Identification | | | |
| 2006 | P12 | Poêlée champêtre | Country poel | | v2 | sp | mix | +MA | +MB | +MA | +LB | <i>L.monocytogenes</i> | + | 9989 | 2.56 | + | +MA | +MB | <i>L.monocytogenes</i> | + | PA |
| 2006 | N16 | Poêlée méridionale | Southern stir-fry | | v2 | sp | 5.6 | ∅ | -LE | +HA | +MA | <i>L.monocytogenes</i> | + | 930 | 0.23 | + | +MA | +LA | <i>L.monocytogenes</i> | + | PA |
| 2006 | P16 | Poêlée romaine | Roman fillet | | v2 | sp | 8 | +LA | +LB | +HB | +MB | <i>L.monocytogenes</i> | + | 8247 | 2.11 | + | +HA | +MA | <i>L.monocytogenes</i> | + | PA |
| 2002 | 2002 | Riz cantonais | Cantonese rice | | v3 | No | / | +HA | +HB | +HA | +HA | <i>L.monocytogenes</i> | + | | 2.42 | + | +HA | +HB / +HA | <i>L.monocytogenes</i> | + | PA |
| 2002 | 2002 | Riz cantonais | Cantonese rice | | v3 | No | / | +HA | +HA | +HA | +HA | <i>L.monocytogenes</i> | + | | 2.92 | + | +HA | +HB / +HA | <i>L.monocytogenes</i> | + | PA |
| 2006 | N25 | Riz et légumes | Rice and vegetables | | v3 | No | / | +LA | +LA | +HA | +MA | <i>L.monocytogenes</i> | + | 7558 | 1.93 | + | +HA | +MA | <i>L.monocytogenes</i> | + | PA |
| 2006 | P13 | Galettes surgelées brocolis | Frozen broccoli patties | | v3 | sp | mix | +LA | +LA | +MA | +MA | <i>L.monocytogenes</i> | + | 6783 | 1.73 | + | +MA | +MA | <i>L.monocytogenes</i> | + | PA |
| 2006 | P14 | Galettes surgelées chou fleur carottes | Frozen patties cauliflower carrots | | v3 | sp | mix | +MA | +MA | +HA | +MA | <i>L.monocytogenes</i> | + | 8803 | 2.25 | + | +HA | +HA | <i>L.monocytogenes</i> | + | PA |
| 2006 | N22 | Riz créole | Creole rice | | v3 | sp | 3.5 | ∅ | +LA(1) | +MA | +MA | <i>L.monocytogenes</i> | + | 11331 | 2.90 | + | +HA | +MA | <i>L.monocytogenes</i> | + | PA |
| 2006 | P20 | Purée toscane | Tuscan puree | | v3 | sp | 8 | +LA | +LA | +HA | +MA | <i>L.monocytogenes</i> | + | 7651 | 1.96 | + | +HA | +MA | <i>L.monocytogenes</i> | + | PA |
| 2006 | P21 | Blé | Corn | | v3 | sp | 16 | +LA | +LA | +HA | +MA | <i>L.monocytogenes</i> | + | 7960 | 2.04 | + | +HA | +MA | <i>L.monocytogenes</i> | + | PA |
| 2006 | P15 | Galettes surgelées poireaux carottes | Frozen pancakes leeks carrots | | v3 | sp | 16 | +LB(2) | +LB(1) | +HB | +MB | <i>L.monocytogenes</i> | + | 10297 | 2.64 | + | +HB | +HB | <i>L.monocytogenes</i> | + | PA |
| 2018 | 29 | Triz long grain | Long grain rice | ∅ | v3 | se | 2.4 | 3h+∅ | 3∅ | 3h+∅ | 4∅ | <i>L.monocytogenes</i> | + | 11662 | 2.96 | + | 3h+∅ | 3∅ | <i>L.monocytogenes</i> | + | PA |
| 2018 | 31 | Petits pois congelés | Frozen peas | ∅ | v3 | No | / | 3h+L | 3L | 3h+∅ | 3∅ | <i>L.monocytogenes</i> | + | 11966 | 3.05 | + | 3h+∅ | 4∅ | <i>L.monocytogenes</i> | + | PA |
| 2018 | 33 | Cake poireaux, carottes, pomme de terre | Leek, carrot, potatoes cake | ∅ | v3 | se | 2.4 | 3h+∅ | 3∅ | 3h+∅ | 3∅ | <i>L.monocytogenes</i> | + | 12798 | 3.26 | + | 3h+∅ | 3∅ | <i>L.monocytogenes</i> | + | PA |

Environmental samples

| Year | Code | Matrices (french name) | Matrices | Cat. | AC | level of conta. | EN ISO 11290-1 method | | | | | VIDAS LMO2 method | | | | | Final result | Comparison | | | |
|------|------|---|--|------|----|-----------------|-----------------------|----------------------------|--------|--------------------------------|-----------------|-------------------|------------|-------|-------------|-----------------|-----------------|-----------------|-----------------|----------------|----|
| | | | | | | | Half Fraser | | Fraser | | Confirmation | | VIDAS LMO2 | | | Confirmation | | | | | |
| | | | | | | | P1 | OX1(2002) OAA1(2006, 2018) | P2 | OX1/OA2(2002) OAA2(2006, 2018) | Identification | Result | RFV | TV | Test result | PAL | | | mo(2002) OAA(20 | Identification | |
| 2002 | 2002 | Eau évaporateur | Evaporator water | e1 | No | / | -LE | -LE | -LE | Ø / -LE | / | - | 0 | - | / | / | / | - | NA | | |
| 2006 | E1 | Eau sortie saucier | Sauce water outlet | e1 | No | / | Ø | +LA(1) | +MA | +MA | L.innocua | - | -4 | 0 | - | / | / | / | - | NA | |
| 2006 | E2 | Eau Steriflow | Steriflow Water | e1 | No | / | Ø | Ø | Ø | Ø | / | - | -2 | 0 | - | / | / | / | - | NA | |
| 2006 | E6 | Eau stagnante bac propre | Stagnant water clean tray | e1 | No | / | Ø | Ø | Ø | -LE | / | - | 3 | 0 | - | / | / | / | - | NA | |
| 2006 | E7 | Eau machine à laver | Water washing machine | e1 | No | / | Ø | Ø | Ø | Ø | / | - | 0 | 0 | - | / | / | / | - | NA | |
| 2006 | F29 | Eau bac de rinçage final | Water final rinse tank | e1 | No | / | Ø | Ø | Ø | Ø | / | - | -1 | 0 | - | / | / | / | - | NA | |
| 2006 | F30 | Eau de process | Process water | e1 | No | / | Ø | Ø | Ø | Ø | / | - | -1 | 0 | - | / | / | / | - | NA | |
| 2006 | G10 | Eau bac de rinçage final | Water final rinse tank | e1 | No | / | +LA | +LA | +HA | +MA | L.innocua | - | -4 | 0 | - | +MA | +MA | L.innocua | - | NA | |
| 2006 | G11 | Eau Stériflow | Stériflow water | e1 | No | / | Ø | Ø | Ø | Ø | / | - | -1 | 0 | - | / | / | / | - | NA | |
| 2018 | 22 | Eau de process 1 | Processed water 1 | Ø | e1 | No | / | ØØ | ØØ | ØØ | ØØ | / | - | -5 | 0 | - | ØØ | ØØ | / | - | NA |
| 2002 | 2002 | Surface étagère matériel local plonge | Surface shelf material local dives | e2 | No | / | Ø | Ø | Ø | Ø | / | - | 0 | 0 | - | / | / | / | - | NA | |
| 2002 | 2002 | Surface prise d'air niveau atelier | Surface air intake level workshop | e2 | No | / | -ME | -LE | -ME | -ME | / | - | 0 | - | / | / | / | - | NA | | |
| 2002 | 2002 | Ecouvillon planche à découper | Swab cutting board | e2 | No | / | Ø | Ø | -LE | -LE / Ø | / | - | 0 | - | / | / | / | - | NA | | |
| 2002 | 2002 | Surface chambre de surgélation | Freezing chamber surface | e2 | No | / | Ø | Ø | Ø | Ø | / | - | 0 | 0 | - | / | / | / | - | NA | |
| 2002 | 2002 | Ecouvillon plateau pâte à tarte | Swab tray pie crust | e2 | No | / | +MB | +MB | +MB | +MB / Ø | L.innocua | - | 0 | - | / | / | / | - | NA | | |
| 2002 | 2002 | Ecouvillon planche à découper - atelier fromage | Swab cutting board - cheese workshop | e2 | No | / | Ø | Ø | -LE | -LE | / | - | 0 | - | / | / | / | - | NA | | |
| 2002 | 2002 | Ecouvillon planche à découper - atelier fromage | Swab cutting board - cheese workshop | e2 | No | / | Ø | Ø | Ø | Ø | / | - | 0 | - | / | / | / | - | NA | | |
| 2002 | 2002 | Ecouvillon couteau armoire UV | Swab UV cabinet knife | e2 | No | / | Ø | Ø | Ø | Ø | / | - | 0 | - | / | / | / | - | NA | | |
| 2002 | 2002 | Surface emballeuse | Packing surface | e2 | No | / | Ø | Ø | -LE | -LE | / | - | 0 | - | / | / | / | - | NA | | |
| 2002 | 2002 | Surface plan de travail - atelier pâtisserie | Surface worktop - pastry workshop | e2 | No | / | Ø | Ø | -LE | -LE | / | - | 0 | - | / | / | / | - | NA | | |
| 2002 | 2002 | Surface emballeuse | Packing surface | e2 | No | / | Ø | Ø | -LE | -ME / Ø | / | - | 0 | - | / | / | / | - | NA | | |
| 2006 | F25 | Ecouvillon jonction sol mur | Swab junction ground wall | e2 | No | / | -LE | -LE | -LE | -LE | / | - | 0 | 0 | - | / | / | / | - | NA | |
| 2006 | F26 | Sol chambre froide | Cold room floor | e2 | No | / | -LE | -LE | -ME | -ME | / | - | -2 | 0 | - | / | / | / | - | NA | |
| 2006 | E11 | Prélèvement surface découpe | Cutting surface sampling | e2 | No | / | +MA | +MA | +HA | +MA | L.innocua | - | 0 | 0 | - | / | / | / | - | NA | |
| 2002 | 2002 | Déchets lave-vaisselle local plonge | Local dishwasher waste plunges | e3 | No | / | Ø | -HE | -LE | -ME / Ø | / | - | 0 | - | / | / | / | - | NA | | |
| 2002 | 2002 | Déchets bac de stockage crème et sucre atelier pâtisserie | Waste storage bin cream and sugar - pastry works | e3 | No | / | Ø | Ø | Ø | Ø | / | - | 0 | - | / | / | / | - | NA | | |
| 2002 | 2002 | Résidus sac de stockage crème pâtissière à froid | Residue storage bag cold custard | e3 | No | / | -ME | -ME | -HE | -ME | / | - | 0 | - | / | / | / | - | NA | | |
| 2002 | 2002 | Déchets siphon d'évacuation des eaux de dégivrage | Waste siphon draining defrost water | e3 | No | / | -HE | -ME | -ME | Ø | / | - | 0 | - | / | / | / | - | NA | | |
| 2002 | 2002 | Déchets regards local silo | Local silo waste looks | e3 | No | / | -LE | -LE | -LE | -LE / Ø | / | - | 0 | - | / | / | / | - | NA | | |
| 2006 | E10 | Résidus table découpe poisson | Residue table cutting fish | e3 | No | / | Ø | Ø | Ø | Ø | / | - | 0 | 0 | - | / | / | / | - | NA | |
| 2006 | F22 | Résidus dans hachoir | Residue in chopper | e3 | No | / | Ø | -LE | Ø | Ø | / | - | -3 | 0 | - | / | / | / | - | NA | |
| 2006 | F23 | Résidus plateau hachoir | Residue chopper tray | e3 | No | / | Ø | -LE | Ø | -LE | / | - | -4 | 0 | - | / | / | / | - | NA | |
| 2006 | F24 | Résidus atelier poisson | Fish workshop residues | e3 | No | / | +MA | +MA | +MA | +MA | L.welshimeri | - | -3 | 0 | - | / | / | / | - | NA | |
| 2006 | F28 | Résidus table découpe fromage | Residue table cut cheese | e3 | No | / | Ø | -LE | -LE | -ME | / | - | -2 | 0 | - | / | / | / | - | NA | |
| 2006 | G12 | Résidus stand poisson | Residue fish stand | e3 | No | / | Ø | -ME | -ME | -ME | / | - | -3 | 0 | - | / | / | / | - | NA | |
| 2006 | G13 | Résidus atelier poisson | Fish workshop residues | e3 | No | / | -LE | -ME | +LD | +MB | L.seeligeri | - | -4 | 0 | - | +LD | +MC | L.seeligeri | - | NA | |
| 2006 | G14 | Résidus table inox atelier | Residue table stainless steel workshop | e3 | No | / | Ø | Ø | Ø | Ø | / | - | -4 | 0 | - | / | / | / | - | NA | |
| 2006 | G16 | Résidus plateau atelier poisson | Residue tray fish workshop | e3 | No | / | Ø | Ø | -LE | -LE | / | - | -3 | 0 | - | / | / | / | - | NA | |
| 2002 | 2002 | Eau d'égout poste saucier | Saucier post water | e1 | No | / | +MB | +MB | +HB | +HB / +MB | L.monocytogenes | + | 0 | - | +MB | +MB / +MC | L.monocytogenes | - | ND | | |
| 2002 | 2002 | Eau d'égout local épices | Local sewage spices | e1 | No | / | +MB | +MB | +HB | +HB / +MB | L.monocytogenes | + | 2.22 | + | +HB | +HB | L.monocytogenes | + | PA | | |
| 2002 | 2002 | Eau d'égout ensachage surgelés | Sewage bagging frozen | e1 | No | / | +MB | +LB | +MB | +LB / +MB | L.monocytogenes | + | 1.78 | + | +HA | +HB / +HA ; +MA | L.monocytogenes | + | PA | | |
| 2002 | 2002 | Eau siphon lavabo atelier | Water siphon washbasin workshop | e1 | No | / | +MA | +MA | +HA | +HA / +MA | L.monocytogenes | + | 2.41 | + | +HA | +HA / +MA | L.monocytogenes | + | PA | | |
| 2002 | 2002 | Eau d'égout laverie | Sewage water laundry | e1 | No | / | +MB | +LD | +HB | +LC / +MB | L.monocytogenes | + | 2.66 | + | +HA | +MB / +MB ; +MA | L.monocytogenes | + | PA | | |
| 2002 | 2002 | Eau siphon lavabo atelier | Water siphon washbasin workshop | e1 | No | / | +LB | +LB | +HB | +MB / +LB | L.monocytogenes | + | 0.44 | + | +MB | +MB | L.monocytogenes | + | PA | | |
| 2006 | E4 | Eau sortie filtre | Water outlet filter | e1 | sp | 2.2 | Ø | Ø | +MA | +MA | L.monocytogenes | + | 2832 | 0.7 | + | +MA | +MA | L.monocytogenes | + | PA | |
| 2006 | E5 | Eau rinçage doseuse | Water dosing rinse | e1 | sp | 4.4 | +LA | +LA | +HA | +MA | L.monocytogenes | + | 11280 | 2.81 | + | +MA | +MA | L.monocytogenes | + | PA | |
| 2018 | 35 | Eau de process 1 | Processed water 1 | Ø | e1 | se | 2.2 | 3h+Ø | 2Ø | 2h+Ø | 3Ø | L.monocytogenes | + | 10521 | 2.68 | + | 3h+Ø | 3Ø | L.monocytogenes | + | PA |
| 2018 | 37 | Eau de process 2 | Processed water 2 | Ø | e1 | se | 2.2 | 2h+Ø | 3Ø | 3h+Ø | 3Ø | L.monocytogenes | + | 11307 | 2.88 | + | 3h+Ø | 3Ø | L.monocytogenes | + | PA |
| 2002 | 2002 | Ecouvillon table pesée 4ème gamme | Swab table weighing 4th range | e2 | No | / | +MA | +LB | +HA | +LB / +MA | L.monocytogenes | + | 1.93 | + | +HA | +HB / +HA | L.monocytogenes | + | PA | | |
| 2002 | 2002 | Ecouvillon bande transporteuse | Swab conveyor belt | e2 | No | / | +LB | +LB | +MB | +LB / +MB | L.monocytogenes | + | 1.79 | + | +HA | +HB / +HA | L.monocytogenes | + | PA | | |
| 2002 | 2002 | Ecouvillon peseuse surgelées | Frozen weigher swab | e2 | No | / | +LB | +LB | +HB | +LB / +MB | L.monocytogenes | + | 1.72 | + | +HA | +HB / +HA | L.monocytogenes | + | PA | | |

Environmental samples

| Year | Code | Matrices (french name) | Matrices | Cat. | AC | level of conta. | EN ISO 11290-1 method | | | | | | VIDAS LMO2 method | | | | | | Comparison | | |
|------|------|---|--|------|----|-----------------|-----------------------|---------------------------|--------|-------------------------------|-------------------------------|------------------------|-------------------|-------|-------------|-----------------|------------------------|----------------------------------|------------------------|--------------|----|
| | | | | | | | Half Fraser | | Fraser | | Confirmation | | VIDAS LMO2 | | | Confirmation | | | | Final result | |
| | | | | | | | P1 | OX1(2002) OA1(2006, 2018) | P2 | OX1/OA2(2002) OA2(2006, 2018) | Identification | Result | RFV | TV | Test result | PAL | mo(2002) OAA(2002) | Identification | | | |
| 2002 | 2002 | Surface machine surgelés | Frozen machine surface | e2 | No | / | +MB | +LB | +MB | +LB / +MB | <i>L.monocytogenes</i> | + | 1.95 | + | +HA | +HA | <i>L.monocytogenes</i> | + | PA | | |
| 2002 | 2002 | Ecouvillon cellule de refroidissement | Cooling cell swab | e2 | No | / | +MB | +MB | +MB | +MB / +MA | <i>L.monocytogenes</i> | + | 1.87 | + | +MB | +MB | <i>L.monocytogenes</i> | + | PA | | |
| 2002 | 2002 | Surface sol | Ground surface | e2 | No | / | +MB | +MB | +HB | +HB / +MA | <i>L.monocytogenes</i> | + | 2.46 | + | +HB | +HB / +MB | <i>L.monocytogenes</i> | + | PA | | |
| 2002 | 2002 | Surface plan de travail atelier | Surface work plan workshop | e2 | No | / | +MA | +MA | +HA | +HA / +MA | <i>L.monocytogenes</i> | + | 2.42 | + | +HB | +HB / +MB | <i>L.monocytogenes</i> | + | PA | | |
| 2002 | 2002 | Surface étagère atelier | Surface shelf workshop | e2 | No | / | +HB | +HB | +HB | +HB / +HA | <i>L.monocytogenes</i> | + | 2.54 | + | +HB | +HB / +HA | <i>L.monocytogenes</i> | + | PA | | |
| 2002 | 2002 | Ecouvillon jonction sol cloison - atelier boulangerie | Swab junction soil partition - bakery workshop | e2 | No | / | +LA | +LA | +MA | +MA | <i>L.monocytogenes</i> | + | 0.54 | + | ∅ | ∅ / +LA | <i>L.monocytogenes</i> | + | PA | | |
| 2002 | 2002 | Surface plan de travail | Surface work plan | e2 | No | / | +MB | | | | | | 1.69 | + | +HA | +HB / +MA | <i>L.monocytogenes</i> | + | PA | | |
| 2002 | 2002 | Surface plan de travail | Surface work plan | e2 | No | / | +HB | | +HB | | <i>L.monocytogenes</i> | | 1.74 | + | +HB | +HB | <i>L.monocytogenes</i> | + | PA | | |
| 2002 | 2002 | Surface lame couteau - stand charcuterie | Surface knife blade - charcuterie stand | e2 | No | / | +MA | +LB | +HB | +HB | <i>L.monocytogenes</i> | + | 1.58 | + | +HB | +MC / +MA ; +HA | <i>L.monocytogenes</i> | + | PA | | |
| 2002 | 2002 | Surface fouet - atelier pâtisseries | Whisk surface - pastry workshop | e2 | No | / | +MA | +LC | +HB | +MB | <i>L.monocytogenes</i> | + | 1.61 | + | +HB | +HC / +HB ; +HA | <i>L.monocytogenes</i> | + | PA | | |
| 2002 | 2002 | Surface plan de travail - atelier fromages | Surface worktop - cheese workshop | e2 | No | / | +MB | +ME | +HB | +MD / +HB | <i>L.monocytogenes</i> | + | 2.52 | + | +HA | +HC / +HB ; +MA | <i>L.monocytogenes</i> | + | PA | | |
| 2002 | 2002 | Surface lame couteau pâté - stand charcuterie | Surface blade knife pâté - charcuterie stand | e2 | No | / | +MA | +LC | +HB | +MD / +HB | <i>L.monocytogenes</i> | + | 1.83 | + | +HB | +HB | <i>L.monocytogenes</i> | + | PA | | |
| 2002 | 2002 | Surface plan de travail - tarterie | Worktop surface - tartar | e2 | No | / | +MB | +MB | +HB | +HB / +MC | <i>L.monocytogenes</i> | + | 2.1 | + | +HB | +HB / +HD ; +MD | <i>L.monocytogenes</i> | + | PA | | |
| 2002 | 2002 | Surface sol tarterie | Ground surface tarring | e2 | No | / | +LD | -LE | +HB | +MD / +HB | <i>L.monocytogenes</i> | + | 1.92 | + | +MB | +LC / +HB | <i>L.monocytogenes</i> | + | PA | | |
| 2002 | 2002 | Surface sol atelier | Ground floor workshop | e2 | No | / | +HB | +HB | +HB | +HB / +HA | <i>L.monocytogenes</i> | + | 2.58 | + | +HB | +HB / +HA | <i>L.monocytogenes</i> | + | PA | | |
| 2002 | 2002 | Surface plan de travail | Surface work plan | e2 | No | / | +HA | +HA | +MA | +MA | <i>L.monocytogenes</i> | + | 2.15 | + | +HA | +HA | <i>L.monocytogenes</i> | + | PA | | |
| 2002 | 2002 | Surface plan de travail | Surface work plan | e2 | No | / | +MA | +MA | +MA | +MA | <i>L.monocytogenes</i> | + | 2.39 | + | +HA | +HA | <i>L.monocytogenes</i> | + | PA | | |
| 2006 | E9 | Prélèvement surface atelier poisson | Sampling fish workshop area | e2 | No | / | +MA | +MA | +HB | +MA | <i>L.monocytogenes</i> | + | 7450 | 1.86 | + | +HA | +MA | <i>L.monocytogenes</i> | + | PA | |
| 2006 | G15 | Bac sale atelier poisson | Dirty fish workshop | e2 | No | / | +MA | +MA | +MA | +MA | <i>L.monocytogenes</i> | + | 7686 | 1.91 | + | +MA | +HA | <i>L.monocytogenes</i> | + | PA | |
| 2002 | 2002 | Résidus sur machine à laver | Residues on washing machine | e3 | No | / | +MB | +MB | +HB | +HB / +MB | <i>L.monocytogenes</i> | + | 2.68 | + | +HB | +HB / +MB ; +MA | <i>L.monocytogenes</i> | + | PA | | |
| 2002 | 2002 | Déchets orifice d'évacuation des eaux usées | Waste water discharge port | e3 | No | / | +LA | +LA | +HB | +HB / +HA | <i>L.monocytogenes</i> | + | 2.71 | + | +HB | +LB / +HB ; +HA | <i>L.monocytogenes</i> | + | PA | | |
| 2002 | 2002 | Poudre sur plan de travail | Powder on worktop | e3 | No | / | +MB | +MB | +HB | +MB | <i>L.monocytogenes</i> | + | 1.93 | + | +HA | +HB / +MA | <i>L.monocytogenes</i> | + | PA | | |
| 2002 | 2002 | Résidus dans lave-bottes | Residue in boot washer | e3 | No | / | +MB | +MB | +HB | +HB | <i>L.monocytogenes</i> | + | 0.25 | + | +HB | +HB / ∅ ; +LD | <i>L.monocytogenes</i> | + | PA | | |
| 2006 | E8 | Résidus bac poisson | Fish tank residues | e3 | No | / | +MA | +MA | +MA | +HA | <i>onocytogenes L.innocua</i> | + | 8058 | 2.01 | + | +MA | +MA | <i>L.monocytogenes L.innocua</i> | + | PA | |
| 2006 | F27 | Résidus plateau | Residues plateau | e3 | No | / | +MA | +MA | +MA | +MA | <i>onocytogenes L.innocua</i> | + | 4486 | 1.12 | + | +MA* | +MA* | <i>L.monocytogenes L.innocua</i> | + | PA | |
| 2018 | 39 | Residus 1 | Residue 1 | ∅ | e3 | se | 2.4 | 2h+∅ | 3∅ | 3h+∅ | 2∅ | <i>L.monocytogenes</i> | + | 12165 | 3.1 | + | 3h+∅ | 3∅ | <i>L.monocytogenes</i> | + | PA |
| 2018 | 41 | Residus 2 | Residue 2 | ∅ | e3 | se | 2.4 | | | | | 3h+∅ | 12967 | 3.3 | + | 3h+∅ | 3∅ | <i>L.monocytogenes</i> | + | PA | |

Appendix D

Sensitivity

Extension study - Raw results

Caption: Bacterial burden
∅: no culture
L = low
M = moderate
H = high

Breakdown of flora

A = pure culture of suspect colonies
B = mixture with a majority of suspect colonies
C = mixture with a minority of suspect colonies
D = mixture with rare suspect colonies
E = absence of suspect colonies
(x): x colonies characteristic of Listeria if $x \leq 5$

Dairy products excluding raw milk

| Type | Code | Sample | Contamination | | | | Reference method ISO 11290-1 # | | | | | | | | Alternative method VIDAS Listeria LMO2 22-26h | | | | | | | Alternative method VIDAS Listeria LMO2 22-26h - 4°C | | | | | | | | | |
|------|---------|---|---|------|---------|---------|--------------------------------|--------------|--------|--------|--------------|--------------|--------|--------|---|--------------|-------------------|--------------------------|--------------------|----------------|-----------------------|---|-------------|--------------|-----------|-----------------|-------------|--------|--------------------|---|---|
| | | | | | | | Fraser 1/2 | | | | Fraser | | | | Identification | Final result | VIDAS test LMO2 | | | Confirmation | | | | Final result | Agreement | VIDAS test LMO2 | | | Confirmations | | |
| | | | Strain | Type | Stress | Level | ALOA | | Palcam | | ALOA | | Palcam | | | | RFV | VT | Test result | Palcam | ALOA | Identification | RFV | | | VT | Test result | Palcam | ALOA | Identification | |
| | | | | | | | ALOA | Palcam | ALOA | Palcam | ALOA | Palcam | ALOA | Palcam | RFV | VT | Test result | Palcam | ALOA | Identification | RFV | VT | Test result | Palcam | ALOA | Identification | | | | | |
| a+ | 1977572 | Raw milk cow cheese (Morbier) | / | nc | / | / | BM halo | BM halo | EM | EM | AL halo | AL halo | EM | EM | <i>L.monocytogenes</i> | P | 12 | 0,00 | NEGATIF | EM | ∅ | / | A | ND | 8 | 0,00 | NEGATIF | EM | ∅ | / | A |
| a+ | 1977573 | Raw milk cow cheese (La ronde) | / | nc | / | / | AM halo | AM halo | EM | EM | AM halo | BM halo | EM | EM | <i>L.monocytogenes</i> | P | 12366 | 3,69 | POSITIF | EM | AM halo | <i>L.monocytogenes</i> | P | PA | 3660 | 1,09 | POSITIF | EM | AM halo | <i>L.monocytogenes</i> | P |
| a+ | 1977822 | Raw milk cow cheese (Maroilles) | / | nc | / | / | AM halo | AM halo | BM | BM | AM halo | AM halo | BL | BL | <i>L.monocytogenes</i> | P | 9163 | 2,34 | POSITIF | AM | AM halo | <i>L.monocytogenes</i> | P | PA | 10783 | 2,75 | POSITIF | AM | AM halo | <i>L.monocytogenes</i> | P |
| a+ | 1977823 | Raw milk cow cheese (Tomme) | <i>L. mono</i> BMU793 | ac | Seeding | 2,0 | ∅ | ∅ | EL | EL | ∅ | ∅ | EL | EL | / | A | 8385 | 2,19 | POSITIF | AM | AM halo | <i>L.monocytogenes</i> | P | PD | 9113 | 2,54 | POSITIF | AM | AM halo | <i>L.monocytogenes</i> | P |
| a+ | 1977824 | Raw milk cow cheese (Abondance) | <i>L. mono</i> BMU793 | ac | Seeding | 2,0 | DL halo | DL halo | DL | DL | AL halo | AL halo | AL | AL | <i>L.monocytogenes</i> | P | 10353 | 2,71 | POSITIF | BM | AM halo | <i>L.monocytogenes</i> | P | PA | 11241 | 3,13 | POSITIF | BM | AM halo | <i>L.monocytogenes</i> | P |
| a+ | 1977825 | Raw milk cow cheese (Brie de Meaux) | <i>L. mono</i> BMU793 | ac | Seeding | 2,0 | AL halo | AL halo | DL | DL | AL halo | AL halo | AL | AL | <i>L.monocytogenes</i> | P | 10586 | 2,77 | POSITIF | BM | AM halo | <i>L.monocytogenes</i> | P | PA | 10983 | 3,06 | POSITIF | AM | AM halo | <i>L.monocytogenes</i> | P |
| a- | 1977826 | Raw milk cow cheese (Morbier) | <i>L. mono</i> BLV059 | ac | Seeding | 2,2 | EL | EL | EL | EL | EL | EL | EL | EL | / | A | 105 | 0,02 | NEGATIF | EL | EL | / | A | NA | 46 | 0,01 | NEGATIF | ∅ | ∅ | / | A |
| a+ | 1977827 | Raw milk cow cheese (Chabichou) | <i>L. mono</i> BLV059 | ac | Seeding | 2,2 | DL halo | DL halo | EL | EL | CL halo | CL halo | EL | EL | <i>L.monocytogenes</i> | P | 8552 | 2,24 | POSITIF | AM | AM halo | <i>L.monocytogenes</i> | P | PA | 10906 | 3,04 | POSITIF | AM | AM halo | <i>L.monocytogenes</i> | P |
| a+ | 1977828 | Raw milk ewe cheese (Roquefort) | <i>L. mono</i> BLV059 | ac | Seeding | 2,2 | DL halo | DL halo | EL | EL | AL halo | AL halo | AL | AL | <i>L.monocytogenes</i> | P | 8374 | 2,19 | POSITIF | AM | AM halo | <i>L.monocytogenes</i> | P | PA | 9265 | 2,58 | POSITIF | AM | AM halo | <i>L.monocytogenes</i> | P |
| a+ | 2067968 | Raw milk ewe cheese (Roquefort) | <i>L. mono</i> GCQ471 | ac | Seeding | 2,8 | CM halo | CM halo | DL | DL | AL halo | AM halo | AM | AM | <i>L.monocytogenes</i> | P | 9093 | 2,32 | POSITIF | AM | AM halo | <i>L.monocytogenes</i> | P | PA | 10999 | 2,83 | POSITIF | AM | AM halo | <i>L.monocytogenes</i> | P |
| a+ | 2067969 | Raw milk goat cheese (Ste Maure) | <i>L. mono</i> GCQ471 | ac | Seeding | 2,8 | AM halo | AM halo | DL | DL | AM halo | BM halo | AL | AM | <i>L.monocytogenes</i> | P | 8127 | 2,07 | POSITIF | AM | BM halo | <i>L.monocytogenes</i> | P | PA | 7954 | 2,03 | POSITIF | AM | BM halo | <i>L.monocytogenes</i> | P |
| a+ | 2067970 | Raw milk cow cheese (Camembert) | <i>L. mono</i> GCQ471 | ac | Seeding | 2,8 | AL halo | AL halo | DL | DL | AM halo | AM halo | AM | AM | <i>L.monocytogenes</i> | P | 9386 | 2,42 | POSITIF | AM | AM halo | <i>L.monocytogenes</i> | P | PA | 8341 | 2,08 | POSITIF | AM | AM halo | <i>L.monocytogenes</i> | P |
| a- | 1977520 | Raw milk goat cheese | / | / | / | / | ∅ | EL | EM | EM | EL | EL | EL | EL | / | A | 56 | 0,01 | NEGATIF | EM | EM | / | A | NA | / | / | / | / | / | / | / |
| a- | 1977521 | Raw milk cow cheese (Comté) | / | / | / | / | EM | EM | EM | EM | EM | EM | EM | EM | / | A | -2 | -0,00 | NEGATIF | EM | ∅ | / | A | NA | / | / | / | / | / | / | / |
| a- | 1977522 | Raw milk cow cheese (St Nectaire) | / | / | / | / | ∅ | EM | EM | EM | EL | EL | EM | EM | / | A | 8 | 0,00 | NEGATIF | EM | ∅ | / | A | NA | / | / | / | / | / | / | / |
| a- | 1977523 | Raw milk cow cheese (Tomme de Savoie) | / | / | / | / | EL | EL | EM | EM | ∅ | ∅ | EM | EM | / | A | 14 | 0,00 | NEGATIF | EM | ∅ | / | A | NA | / | / | / | / | / | / | / |
| a- | 1977530 | Raw milk cow cheese (Reblochon de Savoie) | / | / | / | / | EL | EL | EM | EM | ∅ | EL | EM | EM | / | A | 0 | 0,00 | NEGATIF | EM | EM | / | A | NA | / | / | / | / | / | / | / |
| a- | 1977531 | Raw milk cow cheese (Camembert AOP) | / | / | / | / | ∅ | ∅ | EM | EM | ∅ | ∅ | EM | EM | / | A | 370 (58/66/75) | 0,09 (0,01/0,01/0,01) | POSITIF (-/-/-) | EM | EL | / | A (FP) | NA (PP) | 58 | 0,01 | NEGATIF | EM | EL | / | A |
| a- | 1977532 | Raw milk cow cheese (Abondance) | / | / | / | / | ∅ | ∅ | EM | EM | ∅ | EM | EM | EM | / | A | -2 | -0,00 | NEGATIF | EM | EL | / | A | NA | / | / | / | / | / | / | / |
| a- | 1977533 | Raw milk sheep cheese (Roquefort) | / | / | / | / | ∅ | EL | EM | EM | EL | EL | EM | EM | / | A | 10 | 0,00 | NEGATIF | EM | EL | / | A | NA | / | / | / | / | / | / | / |
| a- | 1977534 | Raw milk goat cheese (Ste Maure) | / | / | / | / | ∅ | EL | EL | EL | ∅ | EL | EM | EM | / | A | 3 | 0,00 | NEGATIF | EM | EM | / | A | NA | / | / | / | / | / | / | / |
| a- | 1977535 | Raw milk cow cheese (Pirudél) | / | / | / | / | EL | EM | EM | EM | ∅ | EM | EM | EM | / | A | 4 | 0,00 | NEGATIF | EM | EM | / | A | NA | / | / | / | / | / | / | / |
| a- | 1977574 | Raw milk cow cheese (Tomme) | / | / | / | / | ∅ | ∅ | EM | EM | ∅ | EL | EM | EM | / | A | 73 | 0,01 | NEGATIF | EM | ∅ | / | A | NA | 117 | 0,03 | NEGATIF | EM | EM | / | / |
| a- | 1977782 | White cheese made from raw milk batch 1 | / | / | / | / | EL | EL | EM | EM | ∅ | EM | EM | EM | / | A | 65 | 0,01 | NEGATIF | EM | ∅ | / | A | NA | / | / | / | / | / | / | / |
| a- | 1977783 | White cheese made from raw milk batch 2 | / | / | / | / | EL | EL | EM | EM | ∅ | EL | EL | EL | / | A | 172 | 0,04 | NEGATIF | EM | ∅ | / | A | NA | / | / | / | / | / | / | / |
| a- | 1977784 | Raw milk cow cheese (Reblochon) | / | / | / | / | EL | EL | EM | EM | ∅ | EL | EM | EM | / | A | 10 | 0,00 | NEGATIF | EM | ∅ | / | A | NA | / | / | / | / | / | / | / |
| a- | 1977785 | Raw milk cow cheese (St Nectaire) batch 1 | / | nc | / | / | DM halo | DM halo | EM | EM | AM sans halo | AM sans halo | EM | EM | <i>L.innocua</i> | A | 355 (30/30/26) | 0,09 (0,00/0,00/0,00) | POSITIF (-/-/-) | EM | EM | / | A (FP) | NA (PP) | 30 | 0,00 | NEGATIF | EM | EM | / | A |
| a- | 1977786 | Raw milk cow cheese (St Nectaire) batch 2 | / | nc | / | / | BL sans halo | BL sans halo | EM | EM | AM sans halo | AM sans halo | EM | EM | <i>L.innocua</i> | A | 37 | 0,00 | NEGATIF | EM | AL sans halo | <i>L.innocua</i> | A | NA | 50 | 0,01 | NEGATIF | EM | AL sans halo | <i>L.innocua</i> | A |
| a- | 1977787 | Raw milk cow cheese (St Nectaire) batch 3 | / | / | / | / | EL | EL | EM | EM | ∅ | EL | EM | EM | / | A | 16 | 0,00 | NEGATIF | EM | ∅ | / | A | NA | / | / | / | / | / | / | / |
| b+ | 1977542 | Pasteurized cow cheese (Munster) | <i>L. mono</i> CLM641 | ac | Seeding | 1,8 | ∅ | EM | EM | EM | ∅ | ∅ | EM | EM | / | A | 7228 | 1,84 | POSITIF | CM | AM halo | <i>L.monocytogenes</i> | P | PD | 4535 | 1,15 | POSITIF | EM | BM halo | <i>L.monocytogenes</i> | P |
| b+ | 1977545 | Pasteurized cow cheese with pepper | <i>L. mono</i> FK2497 <i>L.welshimeri</i> GLX736 | ac | Seeding | 1,6/2,2 | AL sans halo | AL sans halo | EM | EM | AM sans halo | AM sans halo | EM | EM | <i>L.welshimeri</i> | A | 867 | 0,22 | POSITIF | EM | AM halo+san sans halo | <i>L.monocytogenes</i> <i>L.welshimeri</i> | P | PD | 1013 | 0,25 | POSITIF | EM | BM halo | <i>L.monocytogenes</i> <i>L.welshimeri</i> | P |
| b+ | 1977546 | Pasteurized sheep cheese | <i>L. mono</i> FK2497 <i>L.welshimeri</i> GLX736 | ac | Seeding | 1,6/2,2 | CL sans halo | CL sans halo | CM | EM | AM sans halo | AM sans halo | CM | CM | <i>L.welshimeri</i> | A | 6704 | 1,71 | POSITIF | CM | AM halo+san sans halo | <i>L.monocytogenes</i> <i>L.welshimeri</i> | P | PD | 4301 | 1,09 | POSITIF | EM | AM halo+ sans halo | <i>L.monocytogenes</i> <i>L.welshimeri</i> | P |

Dairy products excluding raw milk

| Type | Code | Sample | Contamination | | | | Reference method ISO 11290-1 # | | | | | | | | Alternative method VIDAS Listeria LMO2 22-26h | | | | | | | Agreement | Alternative method VIDAS Listeria LMO2 22-26h - 4°C | | | | | | | | |
|------|---------|---------------------------------------|---|------|---------|---------|--------------------------------|-------------------|------|--------|-------------------|-------------------|-----|----|---|--------------|-----------------|--------|---------|----------------|--------------|--|---|-----------------|-------------|--------|---------------|----------------|--------------|--|---|
| | | | | | | | Fraser 1/2 | | | | Fraser | | | | Identification | Final result | VIDAS test LMO2 | | | Confirmation | | | Final result | VIDAS test LMO2 | | | Confirmations | | | Final result | |
| | | | Strain | Type | Stress | Level | ALOA | Palcam | ALOA | Palcam | ALOA | Palcam | RFV | VT | | | Test result | Palcam | ALOA | Identification | RFV | | | VT | Test result | Palcam | ALOA | Identification | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| b+ | 1977547 | Pasteurized cow cheese (Brie) | <i>L. mono</i> FK2497 <i>L.welshimeri</i> GLX736 | ac | Seeding | 1,6/2,2 | AL sans halo+halo | AL sans halo+halo | BM | BM | AM sans halo+halo | AM sans halo+halo | AM | AM | <i>L.monocytogenes</i> <i>L.welshimeri</i> | P | 8277 | 2,11 | POSITIF | CM | AM halo | <i>L.monocytogenes</i> | P | PA | 8394 | 2,14 | POSITIF | EM | AM halo | <i>L.monocytogenes</i> | P |
| b+ | 1977548 | Pasteurized sheep cheese (Bleu) | <i>L.mono</i> FMJ325 | ac | Seeding | 1,8 | EL | AL halo | EM | EM | AM halo | AM halo | EM | EM | <i>L.monocytogenes</i> | P | 8088 | 2,06 | POSITIF | DM | AM halo | <i>L.monocytogenes</i> | P | PA | 8776 | 2,24 | POSITIF | DM | AM halo | <i>L.monocytogenes</i> | P |
| b+ | 1977549 | Pasteurized cow cheese (Merzer) | <i>L.mono</i> FMJ325 | ac | Seeding | 1,8 | ∅ | ∅ | EM | DM | ∅ | BL | EM | EM | <i>L.monocytogenes</i> | P | 3043 | 0,77 | POSITIF | EM | AM halo | <i>L.monocytogenes</i> | P | PA | 2972 | 0,75 | POSITIF | EM | AM halo | <i>L.monocytogenes</i> | P |
| b+ | 1977550 | Pasteurized sheep cheese | <i>L.mono</i> FMJ325 | ac | Seeding | 1,8 | ∅ | AL halo | EM | EM | AM halo | AM halo | BM | BM | <i>L.monocytogenes</i> | P | 9189 | 2,34 | POSITIF | EM | AM halo | <i>L.monocytogenes</i> | P | PA | 5667 | 1,44 | POSITIF | EM | AM halo | <i>L.monocytogenes</i> | P |
| b+ | 1977551 | Pasteurized cow cheese | <i>L.mono</i> FMJ325 | ac | Seeding | 1,8 | EM | EM | EM | EM | AM halo | AM halo | EM | EM | <i>L.monocytogenes</i> | P | 7 | 0,00 | NEGATIF | EM | ∅ | / | A | ND | 9 | 0,00 | NEGATIF | EM | ∅ | / | A |
| b- | 1977512 | Pasteurized cow cheese (Merzer) | / | / | / | / | ∅ | ∅ | EM | EM | ∅ | ∅ | EM | EM | / | A | -3 | -0,00 | NEGATIF | EM | ∅ | / | A | NA | / | / | / | / | / | / | / |
| b- | 1977513 | Pasteurized cow cheese (Munster) | / | / | / | / | ∅ | ∅ | EM | EM | ∅ | ∅ | EM | EM | / | A | -3 | -0,00 | NEGATIF | EM | ∅ | / | A | NA | / | / | / | / | / | / | / |
| b- | 1977514 | Pasteurized cow cheese (Le Bleu) | / | / | / | / | EM | EM | EM | EM | ∅ | ∅ | EM | EM | / | A | 1 | 0,00 | NEGATIF | EM | EM | / | A | NA | / | / | / | / | / | / | / |
| b- | 1977515 | Pasteurized cow cheese (Brie) | / | / | / | / | EL | EL | EM | EM | ∅ | ∅ | EM | EM | / | A | -3 | -0,00 | NEGATIF | EM | EM | / | A | NA | / | / | / | / | / | / | / |
| b- | 1977516 | Pasteurized sheep cheese (Bleu) | / | / | / | / | EL | EL | EM | EM | ∅ | EM | EM | EM | / | A | -4 | -0,00 | NEGATIF | EM | ∅ | / | A | NA | / | / | / | / | / | / | / |
| b- | 1977517 | Pasteurized sheep cheese | / | / | / | / | EL | EL | EM | EM | ∅ | ∅ | EM | EM | / | A | -3 | -0,00 | NEGATIF | EM | EL | / | A | NA | / | / | / | / | / | / | / |
| b- | 1977518 | Pasteurized goat chees | / | / | / | / | EL | EL | EM | EM | ∅ | ∅ | EM | EM | / | A | -4 | -0,00 | NEGATIF | EM | EL | / | A | NA | / | / | / | / | / | / | / |
| b- | 1977519 | Pasteurized goat cheese (Ossau iraty) | / | / | / | / | EM | EM | EM | EM | EL | EL | EM | EM | / | A | -3 | -0,00 | NEGATIF | EM | ∅ | / | A | NA | / | / | / | / | / | / | / |
| b- | 1977536 | Pasteurized cow cheese | / | / | / | / | EM | EM | EM | EM | EM | EM | EM | EM | / | A | 11 | 0,00 | NEGATIF | EM | EL | / | A | NA | / | / | / | / | / | / | / |
| b- | 1977537 | Pasteurized cow cheese with pepper | / | / | / | / | ∅ | EM | EM | EM | EL | EL | EM | EM | / | A | 89 | 0,02 | NEGATIF | EM | EL | / | A | NA | / | / | / | / | / | / | / |
| b- | 1977606 | Pasteurized cow cheese (Emmental) | / | / | / | / | ∅ | EL | EL | EL | / | EM | / | EM | / | A | -3 | 0,00 | NEGATIF | EM | EM | / | A | NA | / | / | / | / | / | / | A |
| b- | 1977607 | Pasteurized cow cheese (Le Paillé) | / | / | / | / | ∅ | EL | EL | EL | / | ∅ | / | EL | / | A | -3 | 0,00 | NEGATIF | EM | EM | / | A | NA | / | / | / | / | / | / | A |
| c+ | 1977555 | Powdered whey | <i>L. mono</i> HBP652 <i>L.innocua</i> GPQ140 | ac | Spiking | 4,8/4,0 | ∅ | EL | EL | EL | AM sans halo | AM sans halo | DM | DM | <i>L.innocua</i> | A | 2582 | 0,66 | POSITIF | CM | AM sans halo | <i>L.innocua</i> <i>L.monocytogenes</i> | P | PD | 2675 | 0,68 | POSITIF | AM | AM sans halo | <i>L.innocua</i> <i>L.monocytogenes</i> | P |
| c+ | 1977557 | Skimmed milk powder | <i>L. mono</i> FLD375 | ac | Spiking | 4,6 | EM | DM | EM | EM | AM halo | AM halo | DM | DM | <i>L.monocytogenes</i> | P | 9249 | 2,36 | POSITIF | DM | BM halo | <i>L.monocytogenes</i> | P | PA | 5485 | 1,40 | POSITIF | DM | AM halo | <i>L.monocytogenes</i> | P |
| c+ | 1977558 | Goat milk powder | <i>L. mono</i> FLD375 | ac | Spiking | 4,6 | EM | EM | EM | EM | BM halo | BM halo | DM | DM | <i>L.monocytogenes</i> | P | 11569 | 2,95 | POSITIF | DM | BM halo | <i>L.monocytogenes</i> | P | PA | 7749 | 1,98 | POSITIF | DM | AM halo | <i>L.monocytogenes</i> | P |
| c+ | 1977559 | Powdered caseinate | <i>L. mono</i> FLD375 | ac | Spiking | 4,6 | ∅ | AL halo | EL | AL | AM halo | AM halo | DM | DM | <i>L.monocytogenes</i> | P | 8662 | 2,21 | POSITIF | DM | BM halo | <i>L.monocytogenes</i> | P | PA | 8860 | 2,26 | POSITIF | DM | AM halo | <i>L.monocytogenes</i> | P |
| c+ | 1977581 | Powdered whole milk | <i>L.mono</i> JAR249 | ac | Spiking | 4,0 | EM | EM | EM | EM | ∅ | EL | EM | EM | / | A | 750 | 0,19 | POSITIF | EM | CL halo | <i>L.monocytogenes</i> | P | PD | 1676 | 0,42 | POSITIF | EM | BM halo | <i>L.monocytogenes</i> | P |
| c+ | 1977582 | Skimmed milk powder | <i>L.mono</i> JAR249 | ac | Spiking | 4,0 | EM | EM | EM | EM | ∅ | EL | EM | EM | / | A | 2744 | 0,70 | POSITIF | EM | BM halo | <i>L.monocytogenes</i> | P | PD | 1075 | 0,27 | POSITIF | EM | BM halo | <i>L.monocytogenes</i> | P |
| c+ | 1977584 | Powdered buttermilk | <i>L.mono</i> LAS822 | ac | Spiking | 4,4 | EM | EM | EM | EM | EL | EL | EL | EL | / | A | 10063 | 2,59 | POSITIF | BM | AM halo | <i>L.monocytogenes</i> | P | PD | 12121 | 3,08 | POSITIF | BM | AM halo | <i>L.monocytogenes</i> | P |
| c+ | 1977585 | Semi-skimmed milk powder | <i>L.mono</i> LAS822 | ac | Spiking | 4,4 | BM halo | BM halo | EM | EM | AM halo | AM halo | BM | BM | <i>L.monocytogenes</i> | P | 12147 | 3,13 | POSITIF | EM | AM halo | <i>L.monocytogenes</i> | P | PA | 8909 | 2,26 | POSITIF | EM | AM halo | <i>L.monocytogenes</i> | P |
| c+ | 2067971 | Whey permeate | <i>L.mono</i> FK2497 | ac | Spiking | 4,2 | EL | AL halo | EM | EM | AM halo | AM halo | EM | EM | <i>L.monocytogenes</i> | P | 9386 | 2,42 | POSITIF | CM | AM halo | <i>L.monocytogenes</i> | P | PA | 8341 | 2,08 | POSITIF | CM | AM halo | <i>L.monocytogenes</i> | P |
| c+ | 2067972 | Powdered buttermilk | <i>L.mono</i> FK2497 | ac | Spiking | 4,2 | ∅ | AL halo | EM | EM | AM halo | AM halo | BM | BM | <i>L.monocytogenes</i> | P | 12053 | 3,11 | POSITIF | DM | BM halo | <i>L.monocytogenes</i> | P | PA | 11019 | 2,81 | POSITIF | DM | AM halo | <i>L.monocytogenes</i> | P |
| c+ | 2067973 | Ewe whole milk powder | <i>L.mono</i> FK2497 | ac | Spiking | 4,2 | EM | EM | EM | EM | BM halo | BM halo | DM | DM | <i>L.monocytogenes</i> | P | 9013 | 2,30 | POSITIF | DM | AM halo | <i>L.monocytogenes</i> | P | PA | 7424 | 1,89 | POSITIF | DM | AM halo | <i>L.monocytogenes</i> | P |
| c- | 1977577 | Whey permeate | <i>L. mono</i> GND673 | ac | Spiking | 4,4 | ∅ | ∅ | ∅ | ∅ | ∅ | ∅ | ∅ | ∅ | / | A | -4 | -0,00 | NEGATIF | EM | ∅ | / | A | NA | -5 | -0,00 | NEGATIF | EM | ∅ | / | A |
| c- | 1977578 | Organic skimmed milk powder | <i>L. mono</i> GND673 | ac | Spiking | 4,4 | EL | EL | EL | EL | ∅ | EL | EL | EL | / | A | -3 | -0,00 | NEGATIF | EM | EL | / | A | NA | -5 | -0,00 | NEGATIF | EM | EL | / | A |
| c- | 1977583 | Whey permeate | <i>L.mono</i> JAR249 | ac | Spiking | 4,0 | ∅ | ∅ | ∅ | ∅ | ∅ | ∅ | ∅ | ∅ | / | A | -3,00 | -0,00 | NEGATIF | EM | EL | / | A | NA | -3 | -0,00 | NEGATIF | EM | ∅ | / | A |
| c- | 1977732 | Powdered whole milk | / | / | / | / | EL | EL | EM | EM | EL | EL | EM | EM | / | A | -2 | -0,00 | NEGATIF | EM | EL | / | A | NA | / | / | / | / | / | / | A |

Dairy products excluding raw milk

| Type | Code | Sample | Contamination | | | | Reference method ISO 11290-1 # | | | | | | | | Alternative method VIDAS Listeria LMO2 22-26h | | | | | | | Agreement | Alternative method VIDAS Listeria LMO2 22-26h - 4°C | | | | | | | | |
|------|---------|----------------------------------|---------------|------|--------|-------|--------------------------------|----|--------|----|--------|----|--------|----|---|--------------|-----------------|---------|-------------|--------------|------|-----------|---|-----------------|-----|----|---------------|--------|------|--------------|----------------|
| | | | | | | | Fraser 1/2 | | | | Fraser | | | | Identification | Final result | VIDAS test LMO2 | | | Confirmation | | | Final result | VIDAS test LMO2 | | | Confirmations | | | Final result | |
| | | | Strain | Type | Stress | Level | ALOA | | Palcam | | ALOA | | Palcam | | | | RFV | VT | Test result | Palcam | ALOA | | | Identification | RFV | VT | Test result | Palcam | ALOA | | Identification |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| c- | 1977733 | Powdered whey | / | / | / | / | ∅ | ∅ | EM | EM | ∅ | ∅ | EM | EM | / | A | -2 | -0,00 | NEGATIF | EL | ∅ | / | A | NA | / | / | / | / | / | / | A |
| c- | 1977734 | Semi-skimmed milk powder batch 1 | / | / | / | / | ∅ | EL | EL | EL | EL | EM | EM | / | A | -3 | -0,00 | NEGATIF | EM | EM | / | A | NA | / | / | / | / | / | / | A | |
| c- | 1977735 | Skimmed milk | / | / | / | / | EL | EL | EM | EM | EL | EL | EM | EM | / | A | -2 | -0,00 | NEGATIF | EM | EM | / | A | NA | / | / | / | / | / | / | A |
| c- | 1977736 | Goat milk powder | / | / | / | / | EL | EL | EM | EM | EL | EL | EM | EM | / | A | -3 | -0,00 | NEGATIF | EM | EM | / | A | NA | / | / | / | / | / | / | A |
| c- | 1977737 | Skimmed milk | / | / | / | / | EL | EL | EM | EM | EL | EL | EM | EM | / | A | -3 | -0,00 | NEGATIF | EL | ∅ | / | A | NA | / | / | / | / | / | / | A |
| c- | 1977738 | Powdered buttermilk | / | / | / | / | EL | EL | EM | EM | EL | EL | EM | EM | / | A | 1 | 0,00 | NEGATIF | EM | EM | / | A | NA | / | / | / | / | / | / | A |
| c- | 1977739 | Whey permeate | / | / | / | / | ∅ | ∅ | EL | EL | ∅ | ∅ | EM | EM | / | A | -1 | -0,00 | NEGATIF | EL | ∅ | / | A | NA | / | / | / | / | / | / | A |
| c- | 1977740 | Organic skimmed milk powder | / | / | / | / | EL | EL | EM | EM | EL | EL | EM | EM | / | A | -2 | -0,00 | NEGATIF | EM | EM | / | A | NA | / | / | / | / | / | / | A |
| c- | 1977741 | Semi-skimmed milk powder batch 2 | / | / | / | / | EL | EL | EM | EM | EL | EL | EM | EM | / | A | 0 | 0,00 | NEGATIF | EM | EM | / | A | NA | / | / | / | / | / | / | A |

Powder infant formula and cereals

| Type | Code | Sample | Contamination | | | | | | | | | | | Reference method ISO 11290-1 # | | | | | | | | | | Alternative method VIDAS Listeria LMO2 26-30h | | | | | | | Agreement | Alternative method VIDAS Listeria LMO2 26-30h - 4°C | | | | | | | Agreement |
|------|---------|--|---|------|---------|---------|----------------|----------------|------|--------|----------------|----------------|------|--------------------------------|--|------|-------------|----------------|--------------|-----------------|------------------------|--|--------------|---|-------------|---------|--------------|-----------------|------------------------|--|-----------|---|-------------|--------|------|--------------|----------------|--|-----------|
| | | | Strain | | | | Type | | | | Fraser 1/2 | | | Fraser | | | | Identification | Final result | VIDAS test LMO2 | | | Confirmation | | | | Final result | VIDAS test LMO2 | | | | Confirmations | | | | Final result | | | |
| | | | Strain | Type | Stress | Level | ALOA | Palcam | ALOA | Palcam | ALOA | Palcam | ALOA | Palcam | RFV | VT | Test result | | | Palcam | ALOA | Identification | RFV | VT | Test result | Palcam | | ALOA | Identification | RFV | | VT | Test result | Palcam | ALOA | | Identification | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| a+ | 1977560 | Baby milk powder 0-6 months | <i>Limnoco</i> GRR943 <i>L.mono</i> BMU793 | ac | Spiking | 2,8/3,0 | BM halo + sans | BM halo + sans | DM | DM | AM halo + sans | AM halo + sans | BM | BM | <i>L.innocua</i> <i>L.monocytogenes</i> | P | 9444 | 2,41 | POSITIF | DM | BM halo + sans | <i>L.innocua</i> <i>L.monocytogenes</i> | P | PA | 6351 | 1,62 | POSITIF | DM | BM halo + sans | <i>L.innocua</i> <i>L.monocytogenes</i> | P | PA | | | | | | | |
| a+ | 1977561 | Baby milk powder 6-12 months LOT 1 | <i>Limnoco</i> GRR943 <i>L.mono</i> BMU793 | ac | Spiking | 2,8/3,0 | BM halo + sans | BM halo + sans | DM | DM | AM halo + sans | AM halo + sans | BM | BM | <i>L.innocua</i> <i>L.monocytogenes</i> | P | 3382 | 0,86 | POSITIF | DM | AM halo + sans | <i>L.innocua</i> <i>L.monocytogenes</i> | P | PA | 5236 | 1,33 | POSITIF | DM | AM halo + sans | <i>L.innocua</i> <i>L.monocytogenes</i> | P | PA | | | | | | | |
| a+ | 1977562 | Baby milk powder 1-3 years LOT 1 | <i>Limnoco</i> GRR943 <i>L.mono</i> BMU793 | ac | Spiking | 2,8/3,0 | AM halo + sans | BM halo + sans | DM | DM | AM halo + sans | AM halo + sans | DM | DM | <i>L.innocua</i> <i>L.monocytogenes</i> | P | 973 | 0,24 | POSITIF | DM | AM halo + sans | <i>L.innocua</i> <i>L.monocytogenes</i> | P | PA | 506 | 0,12 | POSITIF | DM | AM halo + sans | <i>L.innocua</i> <i>L.monocytogenes</i> | P | PA | | | | | | | |
| a+ | 1977563 | Baby growth milk powder 1-3 years | <i>Limnoco</i> GLE603 <i>L.mono</i> BLV059 | ac | Spiking | 3,0/4,0 | BM halo + sans | BM halo + sans | EM | EM | AM halo + sans | AM halo + sans | BM | BM | <i>L.monocytogenes</i> <i>L.innocua</i> | P | 7990 | 2,04 | POSITIF | EM | AM halo | <i>L.monocytogenes</i> | P | PA | 8815 | 2,25 | POSITIF | EM | AM halo | <i>L.monocytogenes</i> | P | PA | | | | | | | |
| a+ | 1977564 | Baby goat milk powder 1-3 years | <i>Limnoco</i> GLE603 <i>L.mono</i> BLV059 | ac | Spiking | 3,0/4,0 | BM halo + sans | BM halo + sans | EM | EM | AM halo + sans | AM halo + sans | BM | BM | <i>L.monocytogenes</i> <i>L.innocua</i> | P | 6708 | 1,71 | POSITIF | DM | AM halo + sans | <i>L.monocytogenes</i> <i>L.innocua</i> | P | PA | 4583 | 1,17 | POSITIF | DM | AM halo + sans | <i>L.monocytogenes</i> <i>L.innocua</i> | P | PA | | | | | | | |
| a+ | 1977565 | Baby milk powder 1-3 years LOT 2 | <i>Limnoco</i> GLE603 <i>L.mono</i> BLV059 | ac | Spiking | 3,0/4,0 | BM halo + sans | BM halo | EM | EM | AM halo | AM halo | BM | BM | <i>L.monocytogenes</i> | P | 4049 | 1,03 | POSITIF | DM | AM halo + sans | <i>L.monocytogenes</i> <i>L.innocua</i> | P | PA | 7331 | 1,87 | POSITIF | DM | AM halo + sans | <i>L.monocytogenes</i> <i>L.innocua</i> | P | PA | | | | | | | |
| a+ | 1977567 | Baby milk powder thickened formula 6-12 months | <i>L.mono</i> PCA920 | ac | Spiking | 4,0 | ∅ | ∅ | EL | EL | ∅ | ∅ | ∅ | ∅ | / | A | 7768 | 1,98 | POSITIF | DM | AM avec halo | <i>L.monocytogenes</i> | P | PD | 7770 | 1,98 | POSITIF | DM | AM avec halo | <i>L.monocytogenes</i> | P | PD | | | | | | | |
| a+ | 1977568 | Junior baby milk powder + 18 months | <i>L.mono</i> PCA920 | ac | Spiking | 4,0 | ∅ | ∅ | EL | EL | ∅ | ∅ | EL | EL | / | A | 7869 | 2,01 | POSITIF | BM | AM avec halo | <i>L.monocytogenes</i> | P | PD | 7848 | 2,00 | POSITIF | BM | AM avec halo | <i>L.monocytogenes</i> | P | PD | | | | | | | |
| a+ | 1977569 | Baby milk powder 6-12 months LOT 2 | <i>L.mono</i> PCA920 | ac | Spiking | 4,0 | ∅ | DL avec halo | EL | EL | AL avec halo | AL avec halo | DL | DL | <i>L.monocytogenes</i> | P | 8497 | 2,17 | POSITIF | BM | AM avec halo | <i>L.monocytogenes</i> | P | PA | 6872 | 1,75 | POSITIF | BM | AM avec halo | <i>L.monocytogenes</i> | P | PA | | | | | | | |
| a+ | 2045465 | Organic baby milk powder 6-12 months | <i>L.mono</i> GND673 | ac | Spiking | 3,8 | BM halo | BM halo | EM | EM | AM halo | AM halo | BM | BM | <i>L.monocytogenes</i> | P | 8150 | 2,02 | POSITIF | BM | AM avec halo | <i>L.monocytogenes</i> | P | PA | 7402 | 1,89 | POSITIF | BM | AM avec halo | <i>L.monocytogenes</i> | P | PA | | | | | | | |
| a- | 1977566 | Baby growth milk powder 1-3 years | <i>L.mono</i> PCA920 | ac | Spiking | 4,0 | ∅ | ∅ | EM | EM | ∅ | ∅ | EL | EL | / | A | -3 | -0,00 | NEGATIF | EM | ∅ | / | A | NA | -4 | -0,00 | NEGATIF | EM | ∅ | / | A | NA | | | | | | | |
| a- | 1977596 | Baby milk powder 0-6 months | / | / | / | / | ∅ | EL | EL | EL | / | EL | / | EM | / | A | -5 | -0,00 | NEGATIF | EM | ∅ | / | A | NA | / | / | / | / | / | / | A | NA | | | | | | | |
| a- | 1977597 | Baby milk powder 6-12 months LOT 1 | / | / | / | / | ∅ | EL | EL | EL | / | ∅ | / | EL | / | A | -5 | -0,00 | NEGATIF | EM | ∅ | / | A | NA | / | / | / | / | / | / | A | NA | | | | | | | |
| a- | 1977598 | Baby milk powder 1-3 years LOT 1 | / | / | / | / | ∅ | EL | EL | EL | / | EL | / | EM | / | A | -3 | -0,00 | NEGATIF | EM | EM | / | A | NA | / | / | / | / | / | / | A | NA | | | | | | | |
| a- | 1977599 | Baby growth milk powder 1-3 years | / | / | / | / | ∅ | EL | EL | EL | / | ∅ | / | EL | / | A | -3 | -0,00 | NEGATIF | EM | EL | / | A | NA | / | / | / | / | / | / | A | NA | | | | | | | |
| a- | 1977600 | Baby growth milk powder 1-3 years | / | / | / | / | ∅ | EL | EL | EL | / | ∅ | / | EL | / | A | -5 | -0,00 | NEGATIF | EM | EL | / | A | NA | / | / | / | / | / | / | A | NA | | | | | | | |
| a- | 1977601 | Baby milk powder 1-3 years LOT 2 | / | / | / | / | ∅ | EL | EL | EL | / | EL | / | EL | / | A | -4 | -0,00 | NEGATIF | EM | EM | / | A | NA | / | / | / | / | / | / | A | NA | | | | | | | |
| a- | 1977602 | Baby milk powder 1-3 years | / | / | / | / | ∅ | EL | ∅ | EL | / | ∅ | / | ∅ | / | A | 1 | 0,00 | NEGATIF | EM | ∅ | / | A | NA | / | / | / | / | / | / | A | NA | | | | | | | |
| a- | 1977603 | Baby milk powder thickened formula 6-12 months | / | / | / | / | ∅ | ∅ | ∅ | EL | / | ∅ | / | EL | / | A | -5 | -0,00 | NEGATIF | EM | ∅ | / | A | NA | / | / | / | / | / | / | A | NA | | | | | | | |
| a- | 1977604 | Junior baby milk powder + 18 months | / | / | / | / | ∅ | ∅ | ∅ | ∅ | / | ∅ | / | ∅ | / | A | -4 | -0,00 | NEGATIF | EM | ∅ | / | A | NA | / | / | / | / | / | / | A | NA | | | | | | | |
| a- | 1977605 | Baby milk powder 6-12 months LOT 2 | / | / | / | / | ∅ | EL | EL | EL | / | ∅ | / | EL | / | A | -4 | -0,00 | NEGATIF | EM | EL | / | A | NA | / | / | / | / | / | / | A | NA | | | | | | | |
| b+ | 1977589 | Infant milk 1-3 years <i>Lactobacillus reuteri</i> DSM 17938 - 5,5 10 ⁶ UFC/g | <i>L.mono</i> JAR249 | ac | Spiking | 4,0 | AL halo | AL halo | EL | EL | AM halo | AM halo | BM | BM | <i>L.monocytogenes</i> | P | 11795 | 3,04 | POSITIF | EM | AM halo | <i>L.monocytogenes</i> | P | PA | 9772 | 2,48 | POSITIF | EM | AM halo | <i>L.monocytogenes</i> | P | PA | | | | | | | |
| b+ | 1977590 | Organic infant milk 6-12 months <i>Lactobacillus fermentum hereditum</i> - 10 ⁶ UFC/g | <i>L.mono</i> PCA920 | ac | Spiking | 4,0 | AL halo | AL halo | EL | EL | AM halo | AM halo | EM | EM | <i>L.monocytogenes</i> | P | -3 | 0 | NEGATIF | EM | ∅ | / | A | ND | -3 | 0 | NEGATIF | / | / | / | A | ND | | | | | | | |
| b+ | 1977591 | Organic infant milk 1-3 years <i>Bifidobacterium lactis</i> - 2,1 10 ⁷ UFC/g | <i>L.mono</i> PCA920 | ac | Spiking | 4,0 | EM | EM | EM | EM | AM halo | AM halo | BM | BM | <i>L.monocytogenes</i> | P | 8298 | 2,14 | POSITIF | EM | AL halo | <i>L.monocytogenes</i> | P | PA | 9236 | 2,34 | POSITIF | EM | AM halo | <i>L.monocytogenes</i> | P | PA | | | | | | | |
| b+ | 1977592 | Infant milk 0-6 months greedy baby <i>B.Lactis</i> - 4,5 10 ⁶ UFC/g | <i>L.mono</i> HBP652 | ac | Spiking | 4,6 | ∅ | EL | EL | EL | ∅ | EL | EM | EM | / | A | 11775 | 3,03 | POSITIF | AM | AM halo | <i>L.monocytogenes</i> | P | PD | 10317 | 2,62 | POSITIF | DM | AM halo | <i>L.monocytogenes</i> | P | PD | | | | | | | |
| b+ | 1977593 | Infant milk 6-12 months <i>Lactobacillus reuteri</i> DSM 17938 - 6,1 10 ⁶ UFC/g | <i>L.mono</i> HBP652 | ac | Spiking | 4,6 | AL halo | AL halo | EL | EL | AM halo | AM halo | DM | EM | <i>L.monocytogenes</i> | P | 8661 | 2,23 | POSITIF | BM | AM halo | <i>L.monocytogenes</i> | P | PA | 9232 | 2,34 | POSITIF | BM | AM halo | <i>L.monocytogenes</i> | P | PA | | | | | | | |
| b+ | 1977594 | Infant milk 6-12 months <i>S.thermophilus</i> - 7,7 10 ⁶ UFC/g | <i>L.mono</i> HBP652 | ac | Spiking | 4,6 | AL halo | AL halo | EL | EL | ∅ | ∅ | EM | EM | <i>L.monocytogenes</i> | P | 9298 | 2,39 | POSITIF | BM | AM halo | <i>L.monocytogenes</i> | P | PA | 9007 | 2,28 | POSITIF | BM | AM halo | <i>L.monocytogenes</i> | P | PA | | | | | | | |
| b+ | 1977595 | Infant milk 6-12 months thickened formula Bifidobactéries - 1,6 10 ⁶ UFC/g | <i>L.mono</i> HBP652 | ac | Spiking | 4,6 | ∅ | EL | EM | EM | ∅ | ∅ | EM | EM | / | A | 11015 | 2,84 | POSITIF | EM | AM halo | <i>L.monocytogenes</i> | P | PD | 8766 | 2,33 | POSITIF | EM | AM halo | <i>L.monocytogenes</i> | P | PD | | | | | | | |
| b+ | 1978391 | Infant milk 1-3 years <i>Lactobacillus reuteri</i> DSM 17938 - 5,4 10 ⁶ UFC/g | <i>L.mono</i> GND673 | ac | Spiking | 3,8 | ∅ | ∅ | ∅ | EM | EM | EL | EL | / | A | 2469 | 0,64 | POSITIF | BL | AL halo | <i>L.monocytogenes</i> | P | PD | 2675 | 0,68 | POSITIF | BL | AL halo | <i>L.monocytogenes</i> | P | PD | | | | | | | | |
| b+ | 2067974 | Organic infant milk 6-12 months Bifidobacterium infantis - 2,3 10 ⁶ UFC/g | <i>L.mono</i> LCM223 | ac | Spiking | 4,8 | AL halo | AL halo | DL | DL | ∅ | ∅ | DL | DL | <i>L.monocytogenes</i> | P | 7899 | 1,96 | POSITIF | BM | AL halo | <i>L.monocytogenes</i> | P | PA | 8713 | 2,25 | POSITIF | BM | AL halo | <i>L.monocytogenes</i> | P | PA | | | | | | | |
| b+ | 2067975 | Organic infant milk 0-6 months Bifidobacterium - 9,4 10 ⁵ UFC/g | <i>L.mono</i> LCM223 | ac | Spiking | 4,8 | AL halo | AL halo | DL | DL | ∅ | ∅ | DL | DL | <i>L.monocytogenes</i> | P | 9451 | 2,44 | POSITIF | BM | AL halo | <i>L.monocytogenes</i> | P | PA | 8165 | 2,11 | POSITIF | BM | AL halo | <i>L.monocytogenes</i> | P | PA | | | | | | | |
| b- | 1977586 | Infant milk 0-6 months thickened formula <i>B.Lactis</i> - 4,7 10 ⁶ UFC/g | <i>L.mono</i> JAR249 | ac | Spiking | 4,0 | EL | EL | EM | EM | EL | EL | EM | EM | / | A | -5 | -0,00 | NEGATIF | EM | EL | / | A | NA | / | / | / | / | / | / | A | NA | | | | | | | |
| b- | 1977587 | Infant milk 0-6 months (breastfeeding relay) <i>Lactobacillus reuteri</i> DSM 17938 - 4 10 ⁶ UFC/g | <i>L.mono</i> LAS822 | ac | Spiking | 4,4 | ∅ | ∅ | EL | EL | ∅ | ∅ | EM | EM | / | A | -4 | -0,00 | NEGATIF | EM | ∅ | / | A | NA | / | / | / | / | / | / | A | NA | | | | | | | |

Powder infant Formula and cereals

| Type | Code | Sample | Contamination | | | | Reference method ISO 11290-1 # | | | | | | | | Alternative method VIDAS Listeria LMO2 26-30h | | | | | | | Agreement | Alternative method VIDAS Listeria LMO2 26-30h - 4°C | | | | | | | Agreement | | | |
|------|---------|---|---------------|------|---------|-------|--------------------------------|---------|--------|----|---------|---------|--------|----|---|--------------|-----------------|-------|-------------|--------------|---------|------------------------|---|--------------|-----------------|-------|-------------|---------------|---------|------------------------|----------------|--------------|----|
| | | | | | | | Fraser 1/2 | | | | Fraser | | | | Identification | Final result | VIDAS test LMO2 | | | Confirmation | | | | Final result | VIDAS test LMO2 | | | Confirmations | | | | Final result | |
| | | | Strain | Type | Stress | Level | ALOA | | Palcam | | ALOA | | Palcam | | | | RFV | VT | Test result | Palcam | ALOA | | Identification | | RFV | VT | Test result | Palcam | ALOA | | Identification | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| b- | 1977588 | Infant milk 6-12 months thickened formula <i>Bifidobacterium infantis</i> - 4.1 10 ⁶ UFC/g | L.mono LAS822 | ac | Spiking | 4,4 | Ø | Ø | EL | EL | Ø | Ø | EM | EM | / | A | 39 | 0,01 | NEGATIF | EM | EL | / | A | NA | / | / | / | / | / | / | / | A | NA |
| b- | 1977762 | Infant milk 0-6 months thickened formula <i>B.Lactis</i> - 4,7 10 ⁶ UFC/g | / | / | / | / | Ø | Ø | Ø | Ø | Ø | Ø | Ø | Ø | / | A | -2 | -0,00 | NEGATIF | Ø | Ø | / | A | NA | / | / | / | / | / | / | / | A | NA |
| b- | 1977763 | Infant milk 0-6 months (breastfeeding relay) <i>Lactobacillus reuteri</i> DSM 17938 - 4 10 ⁶ UFC/g | / | / | / | / | Ø | Ø | Ø | Ø | Ø | Ø | Ø | Ø | / | A | -3 | -0,00 | NEGATIF | Ø | Ø | / | A | NA | / | / | / | / | / | / | / | A | NA |
| b- | 1977764 | Infant milk 6-12 months thickened formula <i>Bifidobacterium infantis</i> - 4.1 10 ⁶ UFC/g | / | / | / | / | Ø | Ø | EL | EL | Ø | Ø | EL | EL | / | A | 0 | 0,00 | NEGATIF | EL | Ø | / | A | NA | / | / | / | / | / | / | / | A | NA |
| b- | 1977765 | Infant milk 1-3 years <i>Lactobacillus reuteri</i> DSM 17938 - 5.5 10 ⁶ UFC/g | / | / | / | / | EL | EL | EL | EL | Ø | Ø | Ø | Ø | / | A | 17 | 0,00 | NEGATIF | Ø | EL | / | A | NA | / | / | / | / | / | / | / | A | NA |
| b- | 1977766 | Organic infant milk 6-12 months <i>Lactobacillus fermentum hereditum</i> - 10 ⁶ UFC/g | / | / | / | / | Ø | Ø | Ø | Ø | Ø | Ø | EL | EL | / | A | -2 | -0,00 | NEGATIF | EL | Ø | / | A | NA | / | / | / | / | / | / | / | A | NA |
| b- | 1977767 | Organic infant milk 1-3 years <i>Bifidobacterium lactis</i> - 2,1 10 ⁶ UFC/g | / | / | / | / | EL | EL | EM | EM | EL | EL | EL | EL | / | A | -2 | -0,00 | NEGATIF | EL | EL | / | A | NA | / | / | / | / | / | / | / | A | NA |
| b- | 1977768 | Infant milk 0-6 months greedy baby <i>B.Lactis</i> - 4,5 10 ⁶ UFC/g | / | / | / | / | Ø | Ø | EL | EL | Ø | Ø | EL | EL | / | A | -2 | -0,00 | NEGATIF | EL | Ø | / | A | NA | / | / | / | / | / | / | / | A | NA |
| b- | 1977769 | Infant milk 6-12 months <i>Lactobacillus reuteri</i> DSM 17938 - 6,1 10 ⁶ UFC/g | / | / | / | / | Ø | Ø | EL | EL | Ø | Ø | Ø | Ø | / | A | -3 | -0,00 | NEGATIF | Ø | Ø | / | A | NA | / | / | / | / | / | / | / | A | NA |
| b- | 1977770 | Infant milk 6-12 months <i>S.thermophilus</i> - 5,5 10 ⁶ UFC/g | / | / | / | / | Ø | Ø | Ø | Ø | Ø | Ø | Ø | Ø | / | A | -2 | -0,00 | NEGATIF | Ø | EL | / | A | NA | / | / | / | / | / | / | / | A | NA |
| b- | 1977771 | Organic infant milk 1-3 years <i>Lactobacillus fermentum hereditum</i> - 5,8 10 ⁶ UFC/g | / | / | / | / | Ø | Ø | EL | EL | Ø | Ø | EL | EL | / | A | -3 | -0,00 | NEGATIF | EL | Ø | / | A | NA | / | / | / | / | / | / | / | A | NA |
| b- | 1978390 | Organic infant milk 1-3 years <i>Lactobacillus fermentum hereditum</i> - 5,8 10 ⁶ UFC/g | L.mono GND673 | ac | Spiking | 3,8 | EL | EL | Ø | Ø | Ø | Ø | EL | EL | / | A | -2 | -0,00 | NEGATIF | EL | EL | / | A | NA | / | / | / | / | / | / | / | A | NA |
| c+ | 1977742 | Infant cereal quinoa banana plum <i>B. lactis</i> 1,1 10 ⁶ CFU/g | L.mono RCJ280 | ac | Spiking | 4 | AL halo | AL halo | BM | BM | AM halo | AM halo | BM | BM | <i>L.monocytogenes</i> | P | 8439 | 2,25 | POSITIF | BM | AM halo | <i>L.monocytogenes</i> | P | PA | 8997 | 2,39 | POSITIF | BM | AM halo | <i>L.monocytogenes</i> | P | PA | |
| c+ | 1977743 | Infant cereals with honey <i>B. lactis</i> 3,4 10 ⁶ CFU/g | L.mono RCJ280 | ac | Spiking | 4 | AL halo | AL halo | BM | BM | AM halo | AM halo | BM | BM | <i>L.monocytogenes</i> | P | 8489 | 2,26 | POSITIF | BM | AM halo | <i>L.monocytogenes</i> | P | PA | 8920 | 2,37 | POSITIF | BM | AM halo | <i>L.monocytogenes</i> | P | PA | |
| c+ | 1977744 | Biscuit flavored infant cereals <i>B. lactis</i> 7 10 ⁶ CFU/g | L.mono RCJ280 | ac | Spiking | 4 | AL halo | AL halo | EL | EL | AM halo | AM halo | EM | EM | <i>L.monocytogenes</i> | P | 8922 | 2,37 | POSITIF | EM | AM halo | <i>L.monocytogenes</i> | P | PA | 9047 | 2,41 | POSITIF | EM | AM halo | <i>L.monocytogenes</i> | P | PA | |
| c+ | 1977745 | Infant cereals with 5 cereals <i>B. lactis</i> 5 10 ⁶ CFU/g | L.mono RCJ280 | ac | Spiking | 4 | AL halo | AL halo | EM | EM | AM halo | AM halo | EM | EM | <i>L.monocytogenes</i> | P | 8330 | 2,22 | POSITIF | EM | AM halo | <i>L.monocytogenes</i> | P | PA | 9118 | 2,43 | POSITIF | EM | AM halo | <i>L.monocytogenes</i> | P | PA | |
| c+ | 1977746 | Whole oat and wheat infant cereals <i>B. lactis</i> 6,8 10 ⁶ CFU/g | L.mono BNX114 | ac | Spiking | 3,4 | AL halo | AL halo | EL | EL | AM halo | AM halo | EM | EM | <i>L.monocytogenes</i> | P | 0 | 0,00 | NEGATIF | EL | Ø | / | A | ND | -2 | -0,00 | NEGATIF | EL | Ø | / | A | ND | |
| c+ | 1977747 | Infant multi-cereals with exotic fruits | L.mono BNX114 | ac | Spiking | 3,4 | Ø | Ø | EL | EL | Ø | Ø | EL | EL | <i>L.monocytogenes</i> | P | 8386 | 2,23 | POSITIF | EM | AM halo | <i>L.monocytogenes</i> | P | PA | 9305 | 2,48 | POSITIF | EM | AM halo | <i>L.monocytogenes</i> | P | PA | |
| c+ | 1977748 | Brioche flavored Infant cereals | L.mono RCJ280 | ac | Spiking | 4 | AL halo | AL halo | EM | EM | AM halo | AM halo | EM | EM | <i>L.monocytogenes</i> | P | 8804 | 2,34 | POSITIF | EM | AM halo | <i>L.monocytogenes</i> | P | PA | 8463 | 2,25 | POSITIF | EM | AM halo | <i>L.monocytogenes</i> | P | PA | |
| c- | 1977749 | Infant vanilla cereals | L.mono LAS822 | ac | Spiking | 2,8 | Ø | Ø | EL | EL | Ø | Ø | EL | EL | / | A | -1 | -0,00 | NEGATIF | EL | Ø | / | A | NA | / | / | / | / | / | / | / | A | NA |
| c+ | 1977750 | Infant chocolate cereals | L.mono LAS822 | ac | Spiking | 2,8 | Ø | Ø | EL | EL | Ø | Ø | EL | EL | / | A | 8962 | 2,39 | POSITIF | EM | AM halo | <i>L.monocytogenes</i> | P | PD | 8468 | 2,25 | POSITIF | EM | AM halo | <i>L.monocytogenes</i> | P | PD | |
| c+ | 1977751 | Infant caramel cereals | L.mono JAR249 | ac | Spiking | 2,6 | Ø | Ø | EL | EL | Ø | Ø | EL | EL | / | A | 8761 | 2,33 | POSITIF | EM | AM halo | <i>L.monocytogenes</i> | P | PD | 8378 | 2,23 | POSITIF | EM | AM halo | <i>L.monocytogenes</i> | P | PD | |
| c+ | 1977780 | Infant chocolate cereals | L.mono GND673 | ac | Spiking | 5 | AM halo | AM halo | EM | EM | AM halo | AM halo | EM | EM | <i>L.mono</i> | P | 8143 | 2,02 | POSITIF | DM | AM halo | <i>L.monocytogenes</i> | P | PA | 7362 | 1,96 | POSITIF | DM | AM halo | <i>L.monocytogenes</i> | P | PA | |
| c- | 1977524 | Infant cereal quinoa banana plum | / | / | / | / | EL | EL | EL | EL | Ø | Ø | Ø | Ø | / | A | -2 | -0,00 | NEGATIF | EM | Ø | / | A | NA | / | / | / | / | / | / | / | A | NA |
| c- | 1977525 | Infant cereals with honey | / | / | / | / | EL | EL | EL | EL | Ø | Ø | EM | EM | / | A | -1 | -0,00 | NEGATIF | EM | Ø | / | A | NA | / | / | / | / | / | / | / | A | NA |
| c- | 1977526 | Biscuit flavored infant cereals | / | / | / | / | EL | EL | EL | EL | Ø | Ø | EL | EL | / | A | -3 | -0,00 | NEGATIF | EM | Ø | / | A | NA | / | / | / | / | / | / | / | A | NA |
| c- | 1977527 | Infant multi-cereals with exotic fruits | / | / | / | / | EL | EL | EL | EL | Ø | Ø | Ø | Ø | / | A | -3 | -0,00 | NEGATIF | EM | Ø | / | A | NA | / | / | / | / | / | / | / | A | NA |
| c- | 1977528 | Infant cereals with 5 cereals | / | / | / | / | EL | EL | EM | EM | Ø | Ø | EM | EM | / | A | 159 | 0,04 | NEGATIF | EM | Ø | / | A | NA | / | / | / | / | / | / | / | A | NA |
| c- | 1977529 | Whole oat and wheat infant cereals | / | / | / | / | EL | EL | EL | EL | EL | EL | EM | EM | / | A | -2 | -0,00 | NEGATIF | EM | Ø | / | A | NA | / | / | / | / | / | / | / | A | NA |
| c- | 1977538 | Brioche flavored Infant cereals | / | / | / | / | Ø | Ø | EL | EL | Ø | Ø | EM | EM | / | A | 15 | 0,00 | NEGATIF | EM | Ø | / | A | NA | / | / | / | / | / | / | / | A | NA |
| c- | 1977539 | Infant vanilla cereals | / | / | / | / | Ø | Ø | EL | EL | Ø | Ø | EM | EM | / | A | 21 | 0,00 | NEGATIF | EM | EL | / | A | NA | / | / | / | / | / | / | / | A | NA |
| c- | 1977540 | Infant chocolate cereals | / | / | / | / | EL | EL | EL | EL | Ø | Ø | Ø | Ø | / | A | 13 | 0,00 | NEGATIF | Ø | Ø | / | A | NA | / | / | / | / | / | / | / | A | NA |
| c- | 1977541 | Infant caramel cereals | / | / | / | / | EL | EL | EL | EL | Ø | Ø | EM | EM | / | A | 21 | 0,00 | NEGATIF | EM | Ø | / | A | NA | / | / | / | / | / | / | / | A | NA |

Appendix E – RLOD study – Raw results

Caption

OAA : Ottaviani & Agosti agar

PAL: Palcam agar

+: positive result

- : negative result

/ : test not realized

∅ : absence of colonies

∅, L, M, H: level of bacterial load from absence to high

A: pure culture of suspected colonies

B: mixing with a majority of suspected colonies

C: mixing with a minority of suspected colonies

D: mixing with rare suspected colonies

E: absence of suspected colonies

Rillettes - *Listeria monocytogenes* 1/2c – TVC: 640 000 CFU/g

| Level | CFU/25ml | Reference method | | | | | | Alternative method | | | | | | Comparison | |
|-------|----------|------------------|-----|--------|-----|--------|------------|--------------------|------------|--------|---------------|-----|--------|------------|------------|
| | | Half Fraser | | Fraser | | Result | Conclusion | Signal (RFV) | Test value | Result | Confirmations | | Result | | Conclusion |
| | | PAL | OAA | PAL | OAA | | | | | | PAL | OAA | | | |
| 1 | 0 | ∅ | ∅ | ∅ | ∅ | - | 0/6 | 0 | 0,00 | - | / | / | - | 0/6 | = |
| | | ∅ | ∅ | ∅ | ∅ | - | | -2 | 0,00 | - | / | / | - | | = |
| | | ∅ | ∅ | ∅ | ∅ | - | | -3 | 0,00 | - | / | / | - | | = |
| | | ∅ | ∅ | ∅ | ∅ | - | | -1 | 0,00 | - | / | / | - | | = |
| | | ∅ | ∅ | ∅ | ∅ | - | | -2 | 0,00 | - | / | / | - | | = |
| | | ∅ | ∅ | ∅ | ∅ | - | | -1 | 0,00 | - | / | / | - | | = |
| 2 | 0,39 | ∅ | -LE | ∅ | ∅ | - | 1/6 | -2 | 0,00 | - | / | / | - | 1/6 | = |
| | | ∅ | -LE | ∅ | -ME | - | | -1 | 0,00 | - | / | / | - | | = |
| | | ∅ | ∅ | ∅ | ∅ | - | | -4 | 0,00 | - | / | / | - | | = |
| | | ∅ | ∅ | ∅ | ∅ | - | | -2 | 0,00 | - | / | / | - | | = |
| | | ∅ | -LE | ∅ | ∅ | - | | -4 | 0,00 | - | / | / | - | | = |
| | | +MA | +MA | +HA | +MA | + | | 9398 | 2,46 | + | +MA | +MA | + | | = |
| 3 | 0,78 | +MA | +MA | +HA | +HA | + | 4/6 | 9151 | 2,40 | + | +HA | +MA | + | 4/6 | = |
| | | ∅ | -LE | ∅ | -LE | - | | 3 | 0,00 | - | / | / | - | | = |
| | | ∅ | ∅ | ∅ | ∅ | - | | -2 | 0,00 | - | / | / | - | | = |
| | | +MA | +MA | +MA | +MA | + | | 8348 | 2,19 | + | +HA | +MA | + | | = |
| | | +MA | +MA | +HA | +MA | + | | 8645 | 2,26 | + | +MA | +MA | + | | = |
| | | +MA | +MA | +HA | +MA | + | | 8272 | 2,17 | + | +HA | +MA | + | | = |
| 5 | 2,34 | +MA | +MB | +MA | +MA | + | 5/6 | 8528 | 2,23 | + | +MA | +MA | + | 5/6 | = |
| | | +MA | +MB | +HA | +MA | + | | 8298 | 2,17 | + | +HA | +HA | + | | = |
| | | +MA | +MA | +MA | +MA | + | | 9468 | 2,48 | + | +HA | +MA | + | | = |
| | | +MA | +MA | +HA | +MA | + | | 9185 | 2,41 | + | +HA | +MA | + | | = |
| | | +MA | +MA | +HA | +MA | + | | 9857 | 2,58 | + | +MA | +MA | + | | = |
| | | -ME | -ME | -HE | -ME | - | | -4 | 0,00 | - | / | / | - | | = |
| 6 | 2,48 | +LB | +LB | +HA | +HA | + | 6/6 | 7733 | 2,02 | + | +HB | +HB | + | 6/6 | = |
| | | +LB | +LB | +HA | +MA | + | | 6982 | 1,83 | + | +HB | +HB | + | | = |
| | | +LB | +LB | +HA | +MA | + | | 4424 | 1,16 | + | +MB | +MB | + | | = |
| | | +LB | +LB | +MA | +MA | + | | 8440 | 2,21 | + | +MB | +MB | + | | = |
| | | +LB | +LB | +HA | +MA | + | | 10896 | 2,85 | + | +HA | +HB | + | | = |
| | | +LA | +LA | +HA | +HA | + | | 10056 | 2,63 | + | +HA | +HA | + | | = |

Pasteurized milk - *Listeria monocytogenes* 1/2b – TVC: 20 CFU/ml et 10000 CFU/ml

| Level | CFU/25ml | Reference method | | | | | | Alternative method | | | | | | Comparison | |
|-------|----------|------------------|-----|--------|-----|--------|------------|--------------------|------------|--------|---------------|-----|--------|------------|------------|
| | | Half Fraser | | Fraser | | Result | Conclusion | Signal (RFV) | Test value | Result | Confirmations | | Result | | Conclusion |
| | | PAL | OAA | PAL | OAA | | | | | | PAL | OAA | | | |
| 1 | 0 | ∅ | ∅ | ∅ | ∅ | - | 0/6 | -2 | 0,00 | - | / | / | - | 0/6 | = |
| | | n | ∅ | ∅ | ∅ | - | | -3 | 0,00 | - | / | / | - | | = |
| | | ∅ | ∅ | ∅ | ∅ | - | | -2 | 0,00 | - | / | / | - | | = |
| | | ∅ | ∅ | ∅ | ∅ | - | | 1 | 0,00 | - | / | / | - | | = |
| | | ∅ | ∅ | ∅ | ∅ | - | | -2 | 0,00 | - | / | / | - | | = |
| | | ∅ | ∅ | ∅ | ∅ | - | | 1 | 0,00 | - | / | / | - | | = |
| 2 | 0,28 | +MA | +MA | +HA | +HA | + | 1/6 | 8733 | 3,30 | + | +HA | +MA | + | 1/6 | = |
| | | ∅ | ∅ | ∅ | ∅ | - | | -2 | 0,00 | - | / | / | - | | = |
| | | ∅ | ∅ | ∅ | ∅ | - | | -3 | 0,00 | - | / | / | - | | = |
| | | ∅ | ∅ | ∅ | ∅ | - | | -2 | 0,00 | - | / | / | - | | = |
| | | ∅ | ∅ | ∅ | ∅ | - | | -1 | 0,00 | - | / | / | - | | = |
| | | ∅ | ∅ | ∅ | ∅ | - | | 0 | 0,00 | - | / | / | - | | = |
| 3 | 0,56 | ∅ | ∅ | ∅ | ∅ | - | 2/6 | -2 | 0,00 | - | / | / | - | 2/6 | = |
| | | +MA | +MA | +HA | +HA | + | | 8094 | 2,13 | + | +MA | +MA | + | | = |
| | | ∅ | ∅ | ∅ | ∅ | - | | 0 | 0,00 | - | / | / | - | | = |
| | | ∅ | ∅ | ∅ | ∅ | - | | -3 | 0,00 | - | / | / | - | | = |
| | | +LA | +LA | +HA | +MA | + | | 8094 | 2,13 | + | +HA | +HA | + | | = |
| | | ∅ | ∅ | ∅ | ∅ | - | | 0 | 0,00 | - | / | / | - | | = |
| 4 | 1,12 | +MA | +LA | +HA | +MA | + | 4/6 | 8552 | 2,25 | + | +HA | +HA | + | 4/6 | = |
| | | +MA | +LA | +HA | +MA | + | | 8495 | 2,23 | + | +HA | +MA | + | | = |
| | | +MA | +LA | +HA | +MA | + | | 8428 | 2,22 | + | +HA | +MA | - | | = |
| | | +MA | +LA | +HA | +MA | + | | 8289 | 2,18 | + | +HA | +MA | + | | = |
| | | ∅ | ∅ | ∅ | ∅ | - | | -2 | 0,00 | - | / | / | - | | = |
| | | ∅ | ∅ | ∅ | ∅ | - | | -2 | 0,00 | - | / | / | - | | = |
| 6* | 3,54 | +MA | +MA | +HA | +MB | + | 6/6 | 8984 | 2,24 | + | +HA | +MB | + | 6/6 | = |
| | | +MA | +MB | +HA | +MB | + | | 8943 | 2,23 | + | +HA | +MB | + | | = |
| | | +MA | +MA | +HA | +MB | + | | 9542 | 2,38 | + | +HA | +MA | + | | = |
| | | +MA | +MB | +HA | +MB | + | | 9244 | 2,30 | + | +HA | +MA | + | | = |
| | | +MA | +MA | +HA | +MB | + | | 9576 | 2,39 | + | +HA | +MA | + | | = |
| | | +MA | +MA | +HA | +MB | + | | 9129 | 2,27 | + | +HA | +MA | + | | = |

Breaded fish - *Listeria monocytogenes* 1/2a – TVC : 4 500 000 CFU/g

| Level | CFU/25ml | Reference method | | | | | | Alternative method | | | | | | Comparison | |
|-------|----------|------------------|-----|--------|-----|--------|------------|--------------------|------------|--------|--------------|-----|--------|------------|------------|
| | | Half Fraser | | Fraser | | Result | Conclusion | Signal (RFV) | Test value | Result | Confirmation | | Result | | Conclusion |
| | | PAL | OAA | PAL | OAA | | | | | | PAL | PAL | | | |
| 1 | 0 | ∅ | ∅ | -LE | -ME | - | 0/6 | -2 | 0,00 | - | / | / | - | 0/6 | = |
| | | -LE | ∅ | -ME | -LE | - | | -1 | 0,00 | - | / | / | - | | = |
| | | -LE | -LE | -ME | -LE | - | | 0 | 0,00 | - | / | / | - | | = |
| | | ∅ | ∅ | -ME | -LE | - | | -1 | 0,00 | - | / | / | - | | = |
| | | -LE | -ME | -LE | -ME | - | | -2 | 0,00 | - | / | / | - | | = |
| | | ∅ | ∅ | -LE | -ME | - | | -3 | 0,00 | - | / | / | - | | = |
| 2 | 0,36 | ∅ | -LE | -LE | -ME | - | 1/6 | -1 | 0,00 | - | / | / | - | 1/6 | = |
| | | ∅ | ∅ | -LE | -ME | - | | -1 | 0,00 | - | / | / | - | | = |
| | | ∅ | ∅ | -LE | ∅ | - | | 1 | 0,00 | - | / | / | - | | = |
| | | +MA | +MA | +HA | +MA | + | | 8843 | 2,20 | + | +HA | +MA | - | | = |
| | | ∅ | ∅ | -LE | -LE | - | | 1 | 0,00 | - | / | / | - | | = |
| | | ∅ | ∅ | ∅ | ∅ | - | | 6 | 0,00 | - | / | / | - | | = |
| 3 | 0,72 | +MA | +MA | +MA | +MB | + | 5/6 | 7998 | 1,99 | + | +MA | +MA | + | 5/6 | = |
| | | +MA | +MA | +MA | +MA | + | | 7900 | 1,97 | + | +MA | +MA | + | | = |
| | | +MA | +MA | +MA | +MB | + | | 7945 | 1,98 | + | +MA | +MA | + | | = |
| | | +MA | +MB | +HA | +MB | + | | 7775 | 1,94 | + | +HA | +MA | + | | = |
| | | +MA | +MA | +MA | +MB | + | | 7856 | 1,96 | + | +MA | +MA | + | | = |
| | | ∅ | -LE | -LE | -ME | - | | -1 | 0,00 | - | / | / | - | | = |
| 4 | 1,44 | +MA | +MA | +MA | +MB | + | 4/6 | 8147 | 2,03 | + | +MA | +MA | + | 4/6 | = |
| | | +HA | +MA | +MB | +MA | + | | 8216 | 2,05 | + | +HA | +MA | + | | = |
| | | ∅ | ∅ | ∅ | ∅ | - | | 2 | 0,00 | - | / | / | - | | = |
| | | +MA | +MA | +MB | +MA | + | | 8037 | 2,00 | + | +MA | +MA | + | | = |
| | | +MB | +MA | +HB | +MA | + | | 8093 | 2,02 | + | +HA | +MA | + | | = |
| | | ∅ | -LE | ∅ | -ME | - | | 2 | 0,00 | - | / | / | - | | = |
| 5 | 2,16 | +MA | +MA | +HA | +MA | + | 6/6 | 8481 | 2,11 | + | +MA | +MA | + | 6/6 | = |
| | | +HA | +MA | +MA | +MA | + | | 8309 | 2,07 | + | +HA | +HA | + | | = |
| | | +MA | +MA | +MA | +MA | + | | 8495 | 2,12 | + | +HA | +MA | + | | = |
| | | +MA | +MA | +MB | +MA | + | | 9627 | 2,40 | + | +HA | +MA | + | | = |
| | | +MA | +MA | +HA | +MA | + | | 8649 | 2,16 | + | +MA | +MA | + | | = |
| | | +MA | +MA | +MB | +MA | + | | 8309 | 2,07 | + | +MA | +MA | + | | = |

Fried Vegetables - *Listeria monocytogenes* 1/2b – TVC : 530 CFU/g

| Level | CFU/25ml | Reference method | | | | | | Alternative method | | | | | | Comparison | |
|-------|----------|------------------|-----|--------|-----|--------|------------|--------------------|------------|---------|--------------|-----|--------|------------|------------|
| | | Half Fraser | | Fraser | | Result | Conclusion | Signal (RFV) | Test value | Results | Confirmation | | Result | | Conclusion |
| | | PAL | OAA | PAL | OAA | | | | | | PAL | OAA | | | |
| 1 | 0 | -LE | -LE | -LE | -LE | - | 0/6 | -4 | 0,00 | - | / | / | - | 0/6 | = |
| | | -LE | -LE | -ME | -LE | - | | -2 | 0,00 | - | / | / | - | | = |
| | | -LE | -LE | -ME | -HE | - | | 2 | 0,00 | - | / | / | - | | = |
| | | -LE | -LE | -ME | ∅ | - | | -4 | 0,00 | - | / | / | - | | = |
| | | -LE | -LE | -ME | -ME | - | | -3 | 0,00 | - | / | / | - | | = |
| | | -LE | -LE | -ME | -LE | - | | 0 | 0,00 | - | / | / | - | | = |
| 2 | 0,27 | -LE | -LE | -ME | -ME | - | 2/6 | -1 | 0,00 | - | / | / | - | 2/6 | = |
| | | -ME | -ME | -ME | -ME | - | | 0 | 0,00 | - | / | / | - | | = |
| | | -ME | -ME | -ME | -ME | - | | -4 | 0,00 | - | / | / | - | | = |
| | | +MB | +MA | +HB | +MB | + | | 11246 | 2,95 | + | +HB | +MB | + | | = |
| | | -LE | -LE | -ME | -LE | - | | 3 | 0,00 | - | / | / | - | | = |
| | | +LB | +MB | +MB | +MB | + | | 8486 | 2,22 | + | +HB | +HB | + | | = |
| 3 | 0,54 | +MB | +MA | +HB | +MB | + | 4/6 | 8552 | 2,24 | + | +HB | +MB | + | 4/6 | = |
| | | -LE | -LE | -ME | -LE | - | | -1 | 0,00 | - | / | / | - | | = |
| | | +MB | +MB | +HB | +HA | + | | 7856 | 2,06 | + | +HB | +MB | + | | = |
| | | +MB | +MB | +HB | +MB | + | | 9779 | 2,56 | + | +HB | +MB | + | | = |
| | | -LE | -LE | -ME | -LE | - | | -2 | 0,00 | - | / | / | - | | = |
| | | +MB | +MB | +MB | +MB | + | | 7828 | 2,05 | + | +HB | +HB | + | | = |
| 5 | 1,62 | +MB | +MB | +HB | +HA | + | 6/6 | 8614 | 2,26 | + | +HB | +MB | + | 6/6 | = |
| | | +MB | +MA | +HB | +MA | + | | 8533 | 2,23 | + | +HB | +MB | + | | = |
| | | +MB | +MB | +HB | +MB | + | | 8958 | 2,35 | + | +HB | +HB | + | | = |
| | | +MB | +MA | +HB | +MB | + | | 8682 | 2,27 | + | +HB | +MB | + | | = |
| | | +MB | +MB | +HB | +MB | + | | 8598 | 2,25 | + | +HB | +MB | + | | = |
| | | +MB | +MB | +HB | +MB | + | | 8318 | 2,18 | + | +HB | +HB | + | | = |

Process water - *Listeria monocytogenes* 1/2c – TVC: 100 CFU/ml

| Level | CFU/25ml | Reference method | | | | | | Alternative method | | | | | | Comparison | |
|-------|----------|------------------|--------|--------|-----|--------|------------|--------------------|------------|--------|--------------|-----|--------|------------|------------|
| | | Half Fraser | | Fraser | | Result | Conclusion | Signal (RFV) | Test value | Result | Confirmation | | Result | | Conclusion |
| | | PAL | OAA | PAL | OAA | | | | | | PAL | OAA | | | |
| 1 | 0 | ∅ | ∅ | ∅ | ∅ | - | 0/6 | -2 | 0,00 | - | / | / | - | 0/6 | = |
| | | ∅ | ∅ | ∅ | ∅ | - | | -2 | 0,00 | - | / | / | - | | = |
| | | ∅ | ∅ | ∅ | ∅ | - | | -1 | 0,00 | - | / | / | - | | = |
| | | ∅ | ∅ | ∅ | ∅ | - | | 2 | 0,00 | - | / | / | - | | = |
| | | ∅ | ∅ | ∅ | ∅ | - | | -3 | 0,00 | - | / | / | - | | = |
| | | ∅ | ∅ | ∅ | ∅ | - | | -3 | 0,00 | - | / | / | - | | = |
| 2 | 0,50 | +LA | +LA | +MA | +MA | + | 3/6 | 8709 | 2,17 | + | +HA | +MA | + | 3/6 | = |
| | | +LA | +LA | +HA | +MA | + | | 8730 | 2,18 | + | +MA | +MA | + | | = |
| | | ∅ | ∅ | ∅ | ∅ | - | | 0 | 0,00 | - | / | / | - | | = |
| | | ∅ | ∅ | ∅ | ∅ | - | | 40 | 0,00 | - | / | / | - | | = |
| | | ∅ | ∅ | ∅ | ∅ | - | | -4 | 0,00 | - | / | / | - | | = |
| | | +LA | +LA | +HA | +MA | + | | 7719 | 1,92 | + | +HA | +MA | + | | = |
| 4 | 2,00 | +LA | +LA | +HA | +MA | + | 5/6 | 7848 | 1,96 | + | +MA | +MA | + | 5/6 | = |
| | | +LA | +LA(1) | +HA | +MA | + | | 7373 | 1,84 | + | +HA | +MA | + | | = |
| | | ∅ | ∅ | ∅ | ∅ | - | | 0 | 0,00 | - | / | / | - | | = |
| | | +LA | +LA | +HA | +HA | + | | 8427 | 2,10 | + | +HA | +MA | + | | = |
| | | +LA | +LA | +HA | +MA | + | | 8347 | 2,08 | + | +MA | +MA | + | | = |
| | | +LA | +LA | +HA | +MA | + | | 8219 | 2,05 | + | +HA | +MA | + | | = |
| 5 | 3,00 | +LA(2) | +LA(2) | +HA | +MA | + | 6/6 | 8785 | 2,19 | + | +MA | +MA | + | 6/6 | = |
| | | +LA(5) | +LA(1) | +HA | +MA | + | | 9187 | 2,29 | + | +MA | +MA | + | | = |
| | | +LA | +LA | +MA | +MA | + | | 9628 | 2,40 | + | +HA | +MA | + | | = |
| | | +LA | +LA | +HA | +MA | + | | 10849 | 2,70 | + | +MA | +MA | + | | = |
| | | +LA | +LA(3) | +HA | +MA | + | | 10390 | 2,59 | + | +HA | +MA | + | | = |
| | | +LA(3) | +LA(2) | +HA | +MA | + | | 10786 | 2,69 | + | +HA | +MA | + | | = |

Appendix E

Relative level of detection

Extension study - Raw results

Caption

Bacterial load

L = low

M = medium

H = high

∅ = absence

Distribution of the microflora

A = pure culture of typical colonies

B = mix with a majority of typical colonies

C = mix with a minority of typical colonies

D = mix with rare typical colonies

E = absence of typical colonies

Dairy products excluding raw milk

Matrix: cottage cheese with raw milk

Bacterial strain: *Listeria monocytogenes* HBP652

Enumeration of the microorganisms: 10⁹ CFU/g

| Code | CFU/ 125g | Reference method: EN ISO 11290-1:2017 (*) | | | | | | Alternative method: VIDAS LMO2 | | | | | | Number of positive results / method | | |
|---------|--------------|---|--------|--------|--------|------------------------|--------------------------------|--------------------------------|------------|------|-------------|---------------------------------|------------------------|-------------------------------------|-----------------|------------------------|
| | | 1/2 Fraser | | Fraser | | Res. | Confirmation Identification | Final result | VIDAS LMO2 | | | Alternative method confirmation | | | Final result | |
| | | ALOA | PALCAM | ALOA | PALCAM | | | | RFV LMO2 | VT | Result LMO2 | ALOA | PALCAM | | | Identification |
| 1978465 | 0 | ∅ | ∅ | ∅ | ∅ | - | / | A | 13 | 0.00 | - | ∅ | ∅ | / | A | RM: 0/5 AM: 0/5 |
| 1978466 | | ∅ | ∅ | ∅ | ∅ | - | / | A | 6 | 0.00 | - | ∅ | ∅ | / | A | |
| 1978467 | | ∅ | ∅ | ∅ | ∅ | - | / | A | 30 | 0.00 | - | ∅ | ∅ | / | A | |
| 1978468 | | ∅ | ∅ | ∅ | ∅ | - | / | A | 8 | 0.00 | - | ∅ | ∅ | / | A | |
| 1978469 | | ∅ | ∅ | ∅ | ∅ | - | / | A | 19 | 0.00 | - | ∅ | ∅ | / | A | |
| 2034804 | 0.9 | AL | AL | AM | AM | + | <i>L.monocytogenes</i> | P | 8931 | 2,22 | + | AM | AM | <i>L.monocytogenes</i> | P | RM: 13/20 AM: 13/20 |
| 2034805 | | ∅ | ∅ | ∅ | ∅ | - | / | A | 19 | 0,00 | - | EM | EL | / | A | |
| 2034806 | | AL | AL | AM | AM | + | <i>L.monocytogenes</i> | P | 22 | 0,00 | - | ∅ | ∅ | / | A | |
| 2034807 | | ∅ | ∅ | ∅ | ∅ | - | / | A | 18 | 0,00 | - | ∅ | ∅ | / | A | |
| 2034808 | | AL | AL | AM | AM | + | <i>L.monocytogenes</i> | P | 9251 | 2,30 | + | AM | AM | <i>L.monocytogenes</i> | P | |
| 2034809 | | AL | AL | AL | AL | + | <i>L.monocytogenes</i> | P | 12 | 0,00 | - | EL | EL | / | A | |
| 2034810 | | AL | AL | AL | AL | + | <i>L.monocytogenes</i> | P | 7901 | 1,96 | + | AM | AM | <i>L.monocytogenes</i> | P | |
| 2034811 | | AL | AL | AL | AL | + | <i>L.monocytogenes</i> | P | 8017 | 1,99 | + | AM | AM | <i>L.monocytogenes</i> | P | |
| 2034812 | | AL | AL | AL | AL | + | <i>L.monocytogenes</i> | P | 8316 | 2,07 | + | AM | AM | <i>L.monocytogenes</i> | P | |
| 2034813 | | AL | AL | AL | AL | + | <i>L.monocytogenes</i> | P | 72 | 0,01 | - | EL | EM | / | A | |
| 2034814 | | AL | AL | AL | AL | + | <i>L.monocytogenes</i> | P | 8234 | 2,04 | + | AM | AM | <i>L.monocytogenes</i> | P | |
| 2034815 | | AL | AL | AL | AL | + | <i>L.monocytogenes</i> | P | 8219 | 2,04 | + | AM | AM | <i>L.monocytogenes</i> | P | |
| 2034816 | | ∅ | ∅ | ∅ | ∅ | - | / | A | 8167 | 2,03 | + | AM | AM | <i>L.monocytogenes</i> | P | |
| 2034817 | | AL | AL | AL | AL | + | <i>L.monocytogenes</i> | P | 151 | 0,03 | - | EM | EL | / | A | |
| 2034818 | | ∅ | ∅ | ∅ | ∅ | - | / | A | 8966 | 2,23 | + | AM | AM | <i>L.monocytogenes</i> | P | |
| 2034819 | | ∅ | ∅ | ∅ | ∅ | - | / | A | 9744 | 2,42 | + | AM | AM | <i>L.monocytogenes</i> | P | |
| 2034820 | | ∅ | ∅ | ∅ | ∅ | - | / | A | 16 | 0,00 | - | EL | EL | / | A | |
| 2034821 | | ∅ | ∅ | AL | AL | + | <i>L.monocytogenes</i> | P | 10500 | 2,61 | + | AM | AM | <i>L.monocytogenes</i> | P | |
| 2034822 | | ∅ | ∅ | ∅ | ∅ | - | / | A | 11495 | 2,86 | + | AM | AM | <i>L.monocytogenes</i> | P | |
| 2034823 | ∅ | ∅ | AL | AL | + | <i>L.monocytogenes</i> | P | 8874 | 2,20 | + | AM | AM | <i>L.monocytogenes</i> | P | | |
| 1978470 | 2.9 | AM | AM | AM | AM | + | <i>L.monocytogenes</i> | P | 7898 | 1.96 | + | AM | AM | <i>L.monocytogenes</i> | P | RM: 5/5 AM: 5/5 |
| 1978471 | | AM | AM | AM | AM | + | <i>L.monocytogenes</i> | P | 8188 | 2.03 | + | AM | AM | <i>L.monocytogenes</i> | P | |
| 1978472 | | AM | AM | AM | AM | + | <i>L.monocytogenes</i> | P | 8137 | 2.02 | + | AM | AM | <i>L.monocytogenes</i> | P | |
| 1978473 | | AM | AM | AM | AM | + | <i>L.monocytogenes</i> | P | 8155 | 2.03 | + | AM | AM | <i>L.monocytogenes</i> | P | |
| 1978474 | | AM | AM | AM | AM | + | <i>L.monocytogenes</i> | P | 8152 | 2.02 | + | AM | AM | <i>L.monocytogenes</i> | P | |

Powder Infant Formula and cereals

Matrix: Infant milk powder with probiotics

Bacterial strain: *Listeria monocytogenes* JAR249

Enumeration of the probiotics *Lactobacillus reuteri* DSM 17938: 5,4 10⁶ CFU/g

| Code | CFU/ 125g | Reference method: EN ISO 11290-1:2017 (*) | | | | | | Alternative method: VIDAS LMO2 | | | | | | Number of positive results / method | | |
|---------|--------------|---|--------|--------|--------|--------------|------------------------|--------------------------------|------------|-------|-------------|---------------------------------|--------|-------------------------------------|--------------|----------------------|
| | | 1/2 Fraser | | Fraser | | Confirmation | | Final result | VIDAS LMO2 | | | Alternative method confirmation | | | Final result | |
| | | ALOA | PALCAM | ALOA | PALCAM | Res. | Identification | | RFV LMO2 | VT | Result LMO2 | ALOA | PALCAM | | | Identification |
| 1978428 | 0 | ∅ | ∅ | ∅ | ∅ | - | / | A | -4 | -0,00 | NEGATIF | ∅ | ∅ | / | A | RM:0/5 AM:0/5 |
| 1978429 | | ∅ | ∅ | ∅ | ∅ | - | / | A | -1 | -0,00 | NEGATIF | ∅ | ∅ | / | A | |
| 1978430 | | ∅ | ∅ | ∅ | ∅ | - | / | A | -5 | -0,00 | NEGATIF | ∅ | ∅ | / | A | |
| 1978431 | | ∅ | ∅ | ∅ | ∅ | - | / | A | -3 | -0,00 | NEGATIF | ∅ | ∅ | / | A | |
| 1978432 | | ∅ | ∅ | ∅ | ∅ | - | / | A | -4 | -0,00 | NEGATIF | ∅ | ∅ | / | A | |
| 2045368 | 1.0 | AL | ∅ | AM | BM | + | <i>L.monocytogenes</i> | P | -2 | -0,00 | NEGATIF | ∅ | ∅ | / | A | RM:13/20 AM:12/20 |
| 2045369 | | AL | ∅ | AM | BM | + | <i>L.monocytogenes</i> | P | -4 | -0,00 | NEGATIF | ∅ | ∅ | / | A | |
| 2045370 | | ∅ | ∅ | AM | BM | + | <i>L.monocytogenes</i> | P | 8684 | 2,17 | POSITIF | AM | DM | <i>L.monocytogenes</i> | P | |
| 2045371 | | ∅ | ∅ | ∅ | EM | - | / | A | 9361 | 2,34 | POSITIF | AM | DM | <i>L.monocytogenes</i> | P | |
| 2045372 | | AL | ∅ | AM | BM | + | <i>L.monocytogenes</i> | P | -3 | -0,00 | NEGATIF | ∅ | ∅ | / | A | |
| 2045373 | | EL | EL | AM | EM | + | <i>L.monocytogenes</i> | P | 6135 | 1,53 | POSITIF | AM | DM | <i>L.monocytogenes</i> | P | |
| 2045374 | | ∅ | EL | ∅ | EM | - | / | A | 9524 | 2,38 | POSITIF | AM | DM | <i>L.monocytogenes</i> | P | |
| 2045375 | | AL | AL | AM | BM | + | <i>L.monocytogenes</i> | P | 11604 | 2,90 | POSITIF | AM | DM | <i>L.monocytogenes</i> | P | |
| 2045376 | | ∅ | EL | ∅ | EM | - | / | A | 9724 | 2,43 | POSITIF | AM | DM | <i>L.monocytogenes</i> | P | |
| 2045377 | | ∅ | EL | ∅ | EM | - | / | A | -3 | -0,00 | NEGATIF | ∅ | EM | / | A | |
| 2045378 | | ∅ | EL | AM | BM | + | <i>L.monocytogenes</i> | P | 8927 | 2,23 | POSITIF | AM | AM | <i>L.monocytogenes</i> | P | |
| 2045379 | | ∅ | EL | ∅ | EM | - | / | A | 8627 | 2,15 | POSITIF | AM | DM | <i>L.monocytogenes</i> | P | |
| 2045380 | | AL | AL | AM | BM | + | <i>L.monocytogenes</i> | P | 10258 | 2,56 | POSITIF | AM | DM | <i>L.monocytogenes</i> | P | |
| 2045381 | | ∅ | EL | ∅ | EM | - | / | A | 881 | 0,22 | POSITIF | AM | EM | <i>L.monocytogenes</i> | P | |
| 2045382 | | AL | EL | AM | BM | + | <i>L.monocytogenes</i> | P | -4 | -0,00 | NEGATIF | EL | EM | / | A | |
| 2045383 | | AL | AL | AM | BM | + | <i>L.monocytogenes</i> | P | 8321 | 2,08 | POSITIF | AM | DM | <i>L.monocytogenes</i> | P | |
| 2045384 | | ∅ | ∅ | AM | BM | + | <i>L.monocytogenes</i> | P | 8856 | 2,21 | POSITIF | AM | AM | <i>L.monocytogenes</i> | P | |
| 2045385 | | ∅ | ∅ | ∅ | EM | - | / | A | -4 | -0,00 | NEGATIF | ∅ | EM | / | A | |
| 2045386 | | AL | EL | AM | BM | + | <i>L.monocytogenes</i> | P | -4 | -0,00 | NEGATIF | ∅ | EM | / | A | |
| 2045387 | | AL | EL | AM | BM | + | <i>L.monocytogenes</i> | P | -3 | -0,00 | NEGATIF | ∅ | EM | / | A | |
| 2045393 | 2.0 | AL | BL | AM | BM | + | <i>L.monocytogenes</i> | P | 8877 | 2.22 | POSITIF | AM | AM | <i>L.monocytogenes</i> | P | RM:5/5 AM:5/5 |
| 2045394 | | AL | EL | AM | BM | + | <i>L.monocytogenes</i> | P | 9023 | 2.25 | POSITIF | AM | DM | <i>L.monocytogenes</i> | P | |
| 2045395 | | BL | BL | AM | BM | + | <i>L.monocytogenes</i> | P | 3405 | 0.85 | POSITIF | AM | DM | <i>L.monocytogenes</i> | P | |
| 2045396 | | AL | AL | AM | BM | + | <i>L.monocytogenes</i> | P | 9124 | 2.28 | POSITIF | AM | AM | <i>L.monocytogenes</i> | P | |
| 2045397 | | ∅ | EL | AM | BM | + | <i>L.monocytogenes</i> | P | 9969 | 2.49 | POSITIF | AM | DM | <i>L.monocytogenes</i> | P | |

Appendix F - Selectivity study

Inclusivity Study

| # | Strains | Origin | Test value | Result |
|----|------------------------------------|----------------------|------------|--------|
| 1 | <i>L.monocytogenes 1/2a</i> | Munster cheese | 1.85 | + |
| 2 | <i>L.monocytogenes 1/2a</i> | Maroilles cheese | 1.82 | + |
| 3 | <i>L.monocytogenes 1/2a</i> | Chicken cutlet | 1.89 | + |
| 4 | <i>L.monocytogenes 1/2a</i> | Minced beef burger | 1.84 | + |
| 5 | <i>L.monocytogenes 1/2a</i> | Dried sausage | 1.95 | + |
| 6 | <i>L.monocytogenes 1/2a</i> | Rabbit terrine | 2.12 | + |
| 7 | <i>L.monocytogenes 1/2a</i> | Smoked lardons | 1.99 | + |
| 8 | <i>L.monocytogenes 1/2a</i> | Salmon with dill | 1.73 | + |
| 9 | <i>L.monocytogenes 1/2a</i> | Rillettes | 1.77 | + |
| 10 | <i>L.monocytogenes 1/2a</i> | Fried potatoes | 1.60 | + |
| 11 | <i>L.monocytogenes 1/2a</i> | Pizza | 1.88 | + |
| 12 | <i>L.monocytogenes 1/2a</i> | Munster cheese | 1.60 | + |
| 13 | <i>L.monocytogenes 1/2a</i> | Munster cheese | 1.63 | + |
| 14 | <i>L.monocytogenes 1/2a</i> | Collection | 2.05 | + |
| 15 | <i>L.monocytogenes 1/2a</i> | Smoked salmon | 1.71 | + |
| 16 | <i>L.monocytogenes 1/2b</i> | Pork tongue | 2.02 | + |
| 17 | <i>L.monocytogenes 1/2b</i> | Chicken liver mousse | 1.90 | + |
| 18 | <i>L.monocytogenes 1/2b</i> | Blood sausage | 1.83 | + |
| 19 | <i>L.monocytogenes 1/2b</i> | Collection | 2.35 | + |
| 20 | <i>L.monocytogenes 1/2b</i> | Matured cheese | 1.73 | + |
| 21 | <i>L.monocytogenes 1/2b</i> | Pig's ear | 1.65 | + |
| 22 | <i>L.monocytogenes 1/2b</i> | Minced beef burger | 1.73 | + |
| 23 | <i>L.monocytogenes 1/2c</i> | Beef bourguignon | 1.68 | + |
| 24 | <i>L.monocytogenes 1/2c</i> | Minced meat | 2.28 | + |
| 25 | <i>L.monocytogenes 1/2c</i> | Beef | 1.68 | + |
| 26 | <i>L.monocytogenes 1/2c</i> | Pork belly | 1.67 | + |
| 27 | <i>L.monocytogenes 1/2c</i> | Munster cheese | 1.70 | + |
| 28 | <i>L.monocytogenes 1/2c</i> | Minced beef burger | 2.02 | + |
| 29 | <i>L.monocytogenes 3b</i> | Collection | 1.81 | + |
| 30 | <i>L.monocytogenes 3c</i> | Collection | 2.75 | + |
| 31 | <i>L.monocytogenes 4a</i> | Collection | 2.17 | + |
| 32 | <i>L.monocytogenes 4b</i> | Salad | 2.09 | + |
| 33 | <i>L.monocytogenes 4b</i> | Munster cheese | 2.01 | + |
| 34 | <i>L.monocytogenes 4b</i> | Collection | 1.90 | + |
| 35 | <i>L.monocytogenes 4b</i> | Collection | 1.72 | + |
| 36 | <i>L.monocytogenes 4d</i> | Collection | 1.81 | + |
| 37 | <i>L.monocytogenes 4e</i> | Collection | 1.96 | + |
| 38 | <i>L.monocytogenes 4e</i> | Reblochon cheese | 1.87 | + |
| 39 | <i>L.monocytogenes 4e</i> | Munster cheese | 1.96 | + |
| 40 | <i>L.monocytogenes 7</i> | Collection | 2.28 | + |
| 41 | <i>L.monocytogenes</i> | Herring fillet | 1.92 | + |
| 42 | Non-typable <i>L.monocytogenes</i> | Dried sausage | 1.99 | + |
| 43 | Non-typable <i>L.monocytogenes</i> | Smoked salmon | 2.02 | + |
| 44 | <i>L.monocytogenes</i> | Minced beef burger | 1.71 | + |
| 45 | <i>L.monocytogenes</i> | Dried sausage | 1.80 | + |
| 46 | <i>L.monocytogenes</i> | Mozzarella | 1.99 | + |
| 47 | <i>L.monocytogenes</i> | Neufchâtel cheese | 1.70 | + |
| 48 | <i>L.monocytogenes</i> | Spinach | 1.72 | + |
| 49 | <i>L.monocytogenes</i> | Fillet of perch | 1.90 | + |
| 50 | <i>L.monocytogenes</i> | Frozen vegetables | 1.70 | + |

Exclusivity Study

| Strains | Origin | Test value | Result |
|--------------------------------|---------------------------|------------|--------|
| <i>E.coli</i> | Crépinette sausage parcel | 0.00 | - |
| <i>Enterobacter cloacae</i> | Dairy product | 0.00 | - |
| <i>Hafnia alvei</i> | Parsley | 0.00 | - |
| <i>Klebsiella oxytoca</i> | Milk | 0.00 | - |
| <i>K.pneumoniae</i> | Celery | 0.00 | - |
| <i>P.fluorescens</i> | Mineral water | 0.00 | - |
| <i>Proteus mirabilis</i> | Poultry | 0.00 | - |
| <i>Serratia marcescens</i> | Raw milk | 0.00 | - |
| <i>Yersinia enterocolitica</i> | Biscuit | 0.00 | - |
| <i>Yersinia intermedia</i> | Collection | 0.00 | - |
| <i>Bacillus cereus</i> | Egg | 0.00 | - |
| <i>Bacillus cereus</i> | Beetroot | 0.00 | - |
| <i>Bacillus cereus</i> | Vegetable | 0.00 | - |
| <i>B.stearothermophilus</i> | Dairy product | 0.00 | - |
| <i>B.sphaericus</i> | Meat product | 0.00 | - |
| <i>B.coagulans</i> | Meat product | 0.00 | - |
| <i>S.aureus</i> | Cheese | 0.00 | - |
| <i>S.epidermidis</i> | Yogurt | 0.00 | - |
| <i>Brochatix thermosphacta</i> | Minced meat | 0.00 | - |
| <i>Rhodococcus equi</i> | Meat product | 0.00 | - |
| <i>Enterococcus faecalis</i> | Egg | 0.00 | - |
| <i>Enterococcus faecalis</i> | Collection | 0.00 | - |
| <i>Micrococcus</i> | Meat product | 0.00 | - |
| <i>Streptococcus bovis</i> | Meat product | 0.00 | - |
| <i>Candida albicans</i> | Collection | 0.00 | - |
| <i>S.cerevisiae</i> | Pastries | 0.00 | - |
| <i>Rhodotorula rubra</i> | Pastries | 0.00 | - |
| <i>L.innocua</i> | Munster cheese | 0.00 | - |
| <i>L.innocua</i> | Boulette d'Avesnes cheese | 0.00 | - |
| <i>L.innocua</i> | Rooster | 0.00 | - |
| <i>L.innocua 6a</i> | Toulouse sausage | 0.00 | - |
| <i>L.innocua 6b</i> | Minced beef burger | 0.00 | - |
| <i>L.innocua</i> | Époisses cheese | 0.00 | - |
| <i>L.innocua</i> | Époisses cheese | 0.00 | - |
| <i>L.innocua</i> | Spinach | 0.00 | - |
| <i>L.ivanovii</i> | Roquefort cheese | 0.00 | - |
| <i>L.welshimeri</i> | Rosette dried sausage | 0.00 | - |
| <i>L.welshimeri 6a</i> | Dried sausage | 0.00 | - |
| <i>L.welshimeri 6b</i> | Collection | 0.00 | - |
| <i>L.welshimeri 6b</i> | Minced beef burger | 0.00 | - |
| <i>L.seeligeri 1/2b</i> | Tongue | 0.00 | - |
| <i>L.seeligeri</i> | Minced beef burger | 0.00 | - |
| <i>Jonesia denitrificans</i> | Collection | 0.00 | - |

Appendix G – Interlaboratory study

Raw results

Laboratoire Expert

| Reference | Reference method | | | | | Comparison / expected results | Alternative method VIDAS LMO2 (30°C) | | | | | | Comparison / expected results |
|-----------|------------------|--------|--------|--------|---------|-------------------------------|--------------------------------------|------|---------------------|--------------|--------|---------|-------------------------------|
| | Fraser 1/2 | | Fraser | | Results | | LMO2 test | | Results of the test | Confirmation | | Results | |
| | OAA | PALCAM | OAA | PALCAM | | | RFV | VT | | OAA | PALCAM | | |
| 6 | ∅ | ∅ | ∅ | ∅ | - | = | -4 | 0.00 | - | - | - | - | = |
| 7 | ∅ | ∅ | ∅ | ∅ | - | = | -4 | 0.00 | - | - | - | - | = |
| 8 | ∅ | ∅ | ∅ | ∅ | - | = | -3 | 0.00 | - | - | - | - | = |
| 14 | ∅ | ∅ | ∅ | ∅ | - | = | -3 | 0.00 | - | - | - | - | = |
| 15 | ∅ | ∅ | ∅ | ∅ | - | = | -3 | 0.00 | - | - | - | - | = |
| 19 | ∅ | ∅ | ∅ | ∅ | - | = | -4 | 0.00 | - | - | - | - | = |
| 20 | ∅ | ∅ | ∅ | -LE | - | = | -3 | 0.00 | - | - | - | - | = |
| 21 | ∅ | ∅ | ∅ | ∅ | - | = | -3 | 0.00 | - | - | - | - | = |
| 1 | +LA | +MA | +MA | +MA | + | = | 8852 | 2.77 | + | + | + | + | = |
| 2 | +LA | +LA | +MA | +HA | + | = | 8593 | 2.69 | + | + | + | + | = |
| 9 | +LA | +LA | +MA | +MA | + | = | 8671 | 2.71 | + | + | + | + | = |
| 10 | +LA | +LA | +MA | +MA | + | = | 9057 | 2.83 | + | + | + | + | = |
| 11 | +LA | +LA | +MA | +MA | + | = | 8877 | 2.78 | + | + | + | + | = |
| 16 | +LA | +LA | +MA | +MA | + | = | 9111 | 2.85 | + | + | + | + | = |
| 22 | +MA | +MA | +MA | +MA | + | = | 9734 | 3.05 | + | + | + | + | = |
| 23 | +LA | +LA | +MA | +MA | + | = | 9733 | 3.05 | + | + | + | + | = |
| 3 | +MA | +MA | +MA | +MA | + | = | 8372 | 2.62 | + | + | + | + | = |
| 4 | +MA | +MA | +MA | +HA | + | = | 8798 | 2.75 | + | + | + | + | = |
| 5 | +LA | +LA | +MA | +MA | + | = | 8792 | 2.75 | + | + | + | + | = |
| 12 | +LA | +MA | +MA | +MA | + | = | 9274 | 2.90 | + | + | + | + | = |
| 13 | +MA | +MA | +MA | +MA | + | = | 9131 | 2.86 | + | + | + | + | = |
| 17 | +LA | +LA | +MA | +HA | + | = | 9148 | 2.86 | + | + | + | + | = |
| 18 | +MA | +MA | +MA | +HA | + | = | 9258 | 2.90 | + | + | + | + | = |
| 24 | +MA | +MA | +MA | +HA | + | = | 9506 | 2.97 | + | + | + | + | = |

Laboratory A

| Reference | Reference method | | | | | Comparison / expected results | Alternative method VIDAS LMO2 (30°C) | | | | | Comparison / expected results |
|-----------|------------------|--------|--------|--------|---------|-------------------------------|--------------------------------------|------|---------------------|--------------|---------|-------------------------------|
| | Fraser 1/2 | | Fraser | | Results | | LMO2 test | | Results of the test | Confirmation | Results | |
| | OAA | PALCAM | OAA | PALCAM | | | RFV | VT | | | | |
| 6 | - | - | - | - | - | = | -5 | 0.00 | - | - | - | = |
| 7 | - | - | - | - | - | = | -5 | 0.00 | - | - | - | = |
| 8 | - | - | - | - | - | = | -4 | 0.00 | - | - | - | = |
| 14 | - | - | - | - | - | = | -5 | 0.00 | - | - | - | = |
| 15 | - | - | - | - | - | = | -4 | 0.00 | - | - | - | = |
| 19 | - | - | - | - | - | = | -4 | 0.00 | - | - | - | = |
| 20 | - | - | - | - | - | = | -3 | 0.00 | - | - | - | = |
| 21 | - | - | - | - | - | = | -1 | 0.00 | - | - | - | = |
| 1 | + | + | + | + | + | = | 7699 | 2.17 | + | + | + | = |
| 2 | + | + | + | + | + | = | 7805 | 2.20 | + | + | + | = |
| 9 | + | + | + | + | + | = | 6705 | 1.89 | + | + | + | = |
| 10 | + | + | + | + | + | = | 8593 | 2.43 | + | + | + | = |
| 11 | + | + | + | + | + | = | 8820 | 2.49 | + | + | + | = |
| 16 | + | + | + | + | + | = | 7949 | 2.24 | + | + | + | = |
| 22 | + | + | + | + | + | = | 8128 | 2.29 | + | + | + | = |
| 23 | + | + | + | + | + | = | 7919 | 2.23 | + | + | + | = |
| 3 | + | + | + | + | + | = | 7898 | 2.23 | + | + | + | = |
| 4 | + | + | + | + | + | = | 7809 | 2.20 | + | + | + | = |
| 5 | + | + | + | + | + | = | 7668 | 2.16 | + | + | + | = |
| 12 | + | + | + | + | + | = | 8967 | 2.53 | + | + | + | = |
| 13 | + | + | + | + | + | = | 8079 | 2.28 | + | + | + | = |
| 17 | + | + | + | + | + | = | 7756 | 2.18 | + | + | + | = |
| 18 | + | + | + | + | + | = | 7471 | 2.11 | + | + | + | = |
| 24 | + | + | + | + | + | = | 7698 | 2.17 | + | + | + | = |

Total viable count (en CFU/ml) : > 30 000

Laboratory D

| Reference | Reference method | | | | | Comparison / expected results | Alternative method VIDAS LMO2 (30°C) | | | | | Comparison / expected results |
|-----------|------------------|--------|--------|--------|---------|-------------------------------|--------------------------------------|------|---------------------|--------------|---------|-------------------------------|
| | Fraser 1/2 | | Fraser | | Results | | LMO2 test | | Results of the test | Confirmation | Results | |
| | OAA | PALCAM | OAA | PALCAM | | | RFV | VT | | | | |
| 6 | - | - | - | - | - | = | -3 | 0.00 | - | - | - | = |
| 7 | - | - | - | - | - | = | -4 | 0.00 | - | - | - | = |
| 8 | - | - | - | - | - | = | -4 | 0.00 | - | - | - | = |
| 14 | - | - | - | - | - | = | -4 | 0.00 | - | - | - | = |
| 15 | - | - | - | - | - | = | -3 | 0.00 | - | - | - | = |
| 19 | - | - | - | - | - | = | -4 | 0.00 | - | - | - | = |
| 20 | - | - | - | - | - | = | -4 | 0.00 | - | - | - | = |
| 21 | - | - | - | - | - | = | -4 | 0.00 | - | - | - | = |
| 1 | + | + | + | + | + | = | 11503 | 3.28 | + | + | + | = |
| 2 | + | + | + | + | + | = | 10624 | 3.03 | + | + | + | = |
| 9 | + | + | + | + | + | = | 10347 | 2.95 | + | + | + | = |
| 10 | + | + | + | + | + | = | 9522 | 2.72 | + | + | + | = |
| 11 | + | + | + | + | + | = | 8970 | 2.56 | + | + | + | = |
| 16 | + | + | + | + | + | = | 6306 | 1.80 | + | + | + | = |
| 22 | + | + | + | + | + | = | 9372 | 2.67 | + | + | + | = |
| 23 | + | + | + | + | + | = | 9612 | 2.74 | + | + | + | = |
| 3 | + | + | + | + | + | = | 9089 | 2.59 | + | + | + | = |
| 4 | + | + | + | + | + | = | 9238 | 2.64 | + | + | + | = |
| 5 | + | + | + | + | + | = | 9268 | 2.62 | + | + | + | = |
| 12 | + | + | + | + | + | = | 8397 | 2.40 | + | + | + | = |
| 13 | + | + | + | + | + | = | 9585 | 2.74 | + | + | + | = |
| 17 | + | + | + | + | + | = | 8602 | 2.45 | + | + | + | = |
| 18 | + | + | + | + | + | = | 8812 | 2.51 | + | + | + | = |
| 24 | + | + | + | + | + | = | 7781 | 2.22 | + | + | + | = |

Total viable count (en CFU/ml) : 730 000 000

Laboratory E

| Reference | Reference method | | | | | Comparison / expected results | Alternative method VIDAS LMO2 (30°C) | | | | | Comparison / expected results |
|-----------|------------------|--------|--------|--------|---------|-------------------------------|--------------------------------------|------|---------------------|--------------|---------|-------------------------------|
| | Fraser 1/2 | | Fraser | | Results | | LMO2 test | | Results of the test | Confirmation | Results | |
| | OAA | PALCAM | OAA | PALCAM | | | RFV | VT | | | | |
| 6 | - | - | - | - | - | = | 13 | 0.00 | - | - | - | = |
| 7 | - | - | - | - | - | = | -4 | 0.00 | - | - | - | = |
| 8 | - | - | - | - | - | = | 1 | 0.00 | - | - | - | = |
| 14 | - | - | - | - | - | = | -3 | 0.00 | - | - | - | = |
| 15 | - | - | - | - | - | = | -3 | 0.00 | - | - | - | = |
| 19 | - | - | - | - | - | = | -5 | 0.00 | - | - | - | = |
| 20 | - | - | - | - | - | = | -4 | 0.00 | - | - | - | = |
| 21 | - | - | - | - | - | = | -1 | 0.00 | - | - | - | = |
| 1 | + | + | + | + | + | = | 9082 | 2.63 | + | + | + | = |
| 2 | + | + | + | + | + | = | 9192 | 2.66 | + | + | + | = |
| 9 | + | + | + | + | + | = | 9360 | 2.71 | + | + | + | = |
| 10 | + | + | + | + | + | = | 9675 | 2.80 | + | + | + | = |
| 11 | + | + | + | + | + | = | 9604 | 2.78 | + | + | + | = |
| 16 | + | + | + | + | + | = | 9608 | 2.78 | + | + | + | = |
| 22 | + | + | + | + | + | = | 8043 | 2.04 | + | + | + | = |
| 23 | + | + | + | + | + | = | 7673 | 1.94 | + | + | + | = |
| 3 | + | + | + | + | + | = | 9330 | 2.70 | + | + | + | = |
| 4 | + | + | + | + | + | = | 9408 | 2.72 | + | + | + | = |
| 5 | + | + | + | + | + | = | 9322 | 2.70 | + | + | + | = |
| 12 | + | + | + | + | + | = | 9488 | 2.74 | + | + | + | = |
| 13 | + | + | + | + | + | = | 9408 | 2.72 | + | + | + | = |
| 17 | + | + | + | + | + | = | 9540 | 2.76 | + | + | + | = |
| 18 | + | + | + | + | + | = | 9509 | 2.75 | + | + | + | = |
| 24 | + | + | + | + | + | = | 7608 | 1.93 | + | + | + | = |

Total viable count (en CFU/ml) : > 30 000

Laboratory F

| Reference | Reference method | | | | | Comparison / expected results | Alternative method VIDAS LMO2 (30°C) | | | | | Comparison / expected results |
|----------------------------------|------------------|--------|--------|--------|---------|-------------------------------|--------------------------------------|------|---------------------|--------------|---------|-------------------------------|
| | Fraser 1/2 | | Fraser | | Results | | LMO2 test | | Results of the test | Confirmation | Results | |
| | OAA | PALCAM | OAA | PALCAM | | | RFV | VT | | | | |
| 6 | - | - | - | - | - | = | -4 | 0.00 | - | - | - | = |
| 7 | - | - | - | - | - | = | -3 | 0.00 | - | - | - | = |
| 8 | - | - | - | - | - | = | 2 | 0.00 | - | - | - | = |
| 14 | - | - | - | - | - | = | -4 | 0.00 | - | - | - | = |
| 15 | - | - | - | - | - | = | -4 | 0.00 | - | - | - | = |
| 19 | - | - | - | - | - | = | -5 | 0.00 | - | - | - | = |
| 20 | - | - | - | - | - | = | -4 | 0.00 | - | - | - | = |
| 21 | - | - | - | - | - | = | -3 | 0.00 | - | - | - | = |
| 1 | + | + | + | + | + | = | 7901 | 2.21 | + | + | + | = |
| 2 | + | + | + | + | + | = | 8211 | 2.30 | + | + | + | = |
| 9 | + | + | + | + | + | = | 7707 | 2.16 | + | + | + | = |
| 10 | + | + | + | + | + | = | 7853 | 2.20 | + | + | + | = |
| 11 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 3 | + | + | + | + | + | = | 7745 | 2.17 | + | + | + | = |
| 4 | + | + | + | + | + | = | 7590 | 2.12 | + | + | + | = |
| 5 | + | + | + | + | + | = | 7447 | 2.08 | + | + | + | = |
| 12 | + | + | + | + | + | = | 7663 | 2.14 | + | + | + | = |
| 13 | + | + | + | + | + | = | 7570 | 2.12 | + | + | + | = |
| 17 | + | + | + | + | + | = | 7764 | 2.17 | + | + | + | = |
| 18 | + | + | + | + | + | = | 7811 | 2.18 | + | + | + | = |
| 24 | + | + | + | + | + | = | 8223 | 2.30 | + | + | + | = |
| Total viable count (en CFU/ml) : | | | | | | > 30 000 | | | | | | |

Laboratory G

| Reference | Reference method | | | | | Comparison / expected results | Alternative method VIDAS LMO2 (30°C) | | | | | Comparison / expected results |
|----------------------------------|------------------|--------|--------|--------|---------|-------------------------------|--------------------------------------|------|---------------------|--------------|---------|-------------------------------|
| | Fraser 1/2 | | Fraser | | Results | | LMO2 test | | Results of the test | Confirmation | Results | |
| | OAA | PALCAM | OAA | PALCAM | | | RFV | VT | | | | |
| 6 | - | - | - | - | - | = | -4 | 0.00 | - | - | - | = |
| 7 | - | - | - | - | - | = | 2 | 0.00 | - | - | - | = |
| 8 | - | - | - | - | - | = | -4 | 0.00 | - | - | - | = |
| 14 | - | - | - | - | - | = | -2 | 0.00 | - | - | - | = |
| 15 | - | - | - | - | - | = | -3 | 0.00 | - | - | - | = |
| 19 | - | - | - | - | - | = | -2 | 0.00 | - | - | - | = |
| 20 | - | - | - | - | - | = | -3 | 0.00 | - | - | - | = |
| 21 | - | - | - | - | - | = | -2 | 0.00 | - | - | - | = |
| 1 | + | + | + | + | + | = | 8343 | 2.33 | + | + | + | = |
| 2 | + | + | + | + | + | = | 8390 | 2.34 | + | + | + | = |
| 9 | + | + | + | + | + | = | 9101 | 2.54 | + | + | + | = |
| 10 | + | + | + | + | + | = | 9713 | 2.71 | + | + | + | = |
| 11 | + | + | + | + | + | = | 9758 | 2.72 | + | + | + | = |
| 16 | + | + | + | + | + | = | 10354 | 2.89 | + | + | + | = |
| 22 | + | + | + | + | + | = | 9103 | 2.54 | + | + | + | = |
| 23 | + | + | + | + | + | = | 8740 | 2.44 | + | + | + | = |
| 3 | + | + | + | + | + | = | 9300 | 2.31 | + | + | + | = |
| 4 | + | + | + | + | + | = | 8438 | 2.35 | + | + | + | = |
| 5 | + | + | + | + | + | = | 8456 | 2.36 | + | + | + | = |
| 12 | + | + | + | + | + | = | 8689 | 2.42 | + | + | + | = |
| 13 | + | + | + | + | + | = | 8417 | 2.35 | + | + | + | = |
| 17 | + | + | + | + | + | = | 8766 | 2.44 | + | + | + | = |
| 18 | + | + | + | + | + | = | 8982 | 2.50 | + | + | + | = |
| 24 | + | + | + | + | + | = | 8358 | 2.33 | + | + | + | = |
| Total viable count (en CFU/ml) : | | | | | | 16 000 | | | | | | |

Laboratory H

| Reference | Reference method | | | | | Comparison / expected results | Alternative method VIDAS LMO2 (30°C) | | | | | Comparison / expected results |
|----------------------------------|------------------|--------|--------|--------|---------|-------------------------------|--------------------------------------|------|---------------------|--------------|---------|-------------------------------|
| | Fraser 1/2 | | Fraser | | Results | | LMO2 test | | Results of the test | Confirmation | Results | |
| | OAA | PALCAM | OAA | PALCAM | | | RFV | VT | | | | |
| 6 | - | - | - | - | - | = | -4 | 0.00 | - | - | - | = |
| 7 | - | - | - | - | - | = | -5 | 0.00 | - | - | - | = |
| 8 | - | - | - | - | - | = | -2 | 0.00 | - | - | - | = |
| 14 | - | - | - | - | - | = | -5 | 0.00 | - | - | - | = |
| 15 | - | - | - | - | - | = | -4 | 0.00 | - | - | - | = |
| 19 | - | - | - | - | - | = | -3 | 0.00 | - | - | - | = |
| 20 | - | - | - | - | - | = | -5 | 0.00 | - | - | - | = |
| 21 | - | - | - | - | - | = | -5 | 0.00 | - | - | - | = |
| 1 | + | + | + | + | + | = | 7028 | 1.98 | + | + | + | = |
| 2 | + | + | + | + | + | = | 7502 | 2.12 | + | + | + | = |
| 9 | + | + | + | + | + | = | 7354 | 2.07 | + | + | + | = |
| 10 | + | + | + | + | + | = | 7250 | 2.05 | + | + | + | = |
| 11 | + | + | + | + | + | = | 7114 | 2.01 | + | + | + | = |
| 16 | + | + | + | + | + | = | 7069 | 1.99 | + | + | + | = |
| 22 | + | + | + | + | + | = | 7448 | 2.10 | + | + | + | = |
| 23 | + | + | + | + | + | = | 7322 | 2.07 | + | + | + | = |
| 3 | + | + | + | + | + | = | 7394 | 2.09 | + | + | + | = |
| 4 | + | + | + | + | + | = | 7313 | 2.06 | + | + | + | = |
| 5 | + | + | + | + | + | = | 7286 | 2.06 | + | + | + | = |
| 12 | + | + | + | + | + | = | 7099 | 2.00 | + | + | + | = |
| 13 | + | + | + | + | + | = | 7162 | 2.02 | + | + | + | = |
| 17 | + | + | + | + | + | = | 7168 | 2.02 | + | + | + | = |
| 18 | + | + | + | + | + | = | 7354 | 2.07 | + | + | + | = |
| 24 | + | + | + | + | + | = | 7057 | 1.99 | + | + | + | = |
| Total viable count (en CFU/ml) : | | | | | | 16 000 | | | | | | |

Laboratory I

| Reference | Reference method | | | | | Comparison / expected results | Alternative method VIDAS LMO2 (30°C) | | | | | Comparison / expected results |
|-----------|------------------|--------|--------|--------|---------|-------------------------------|--------------------------------------|------|---------------------|--------------|---------|-------------------------------|
| | Fraser 1/2 | | Fraser | | Results | | LMO2 test | | Results of the test | Confirmation | Results | |
| | OAA | PALCAM | OAA | PALCAM | | | RFV | VT | | | | |
| 6 | - | - | - | - | - | = | -4 | 0.00 | - | - | - | = |
| 7 | - | - | - | - | - | = | -5 | 0.00 | - | - | - | = |
| 8 | - | - | - | - | - | = | -5 | 0.00 | - | - | - | = |
| 14 | - | - | - | - | - | = | -5 | 0.00 | - | - | - | = |
| 15 | - | - | - | - | - | = | -6 | 0.00 | - | - | - | = |
| 19 | - | - | - | - | - | = | -5 | 0.00 | - | - | - | = |
| 20 | - | - | - | - | - | = | -4 | 0.00 | - | - | - | = |
| 21 | - | - | - | - | - | = | -6 | 0.00 | - | - | - | = |
| 1 | + | + | + | + | + | = | 9628 | 2.93 | + | + | + | = |
| 2 | + | + | + | + | + | = | 9463 | 2.88 | + | + | + | = |
| 9 | + | + | + | + | + | = | 9673 | 2.94 | + | + | + | = |
| 10 | + | + | + | + | + | = | 9604 | 2.92 | + | + | + | = |
| 11 | + | + | + | + | + | = | 9498 | 2.89 | + | + | + | = |
| 16 | + | + | + | + | + | = | 9761 | 2.97 | + | + | + | = |
| 22 | + | + | + | + | + | = | 9519 | 2.90 | + | + | + | = |
| 23 | + | + | + | + | + | = | 9485 | 2.89 | + | + | + | = |
| 3 | + | + | + | + | + | = | 9192 | 2.80 | + | + | + | = |
| 4 | + | + | + | + | + | = | 9615 | 2.93 | + | + | + | = |
| 5 | + | + | + | + | + | = | 9457 | 2.88 | + | + | + | = |
| 12 | + | + | + | + | + | = | 9427 | 2.87 | + | + | + | = |
| 13 | + | + | + | + | + | = | 9635 | 2.93 | + | + | + | = |
| 17 | + | + | + | + | + | = | 9786 | 2.98 | + | + | + | = |
| 18 | + | + | + | + | + | = | 9834 | 2.99 | + | + | + | = |
| 24 | + | + | + | + | + | = | 9748 | 2.97 | + | + | + | = |

Total viable count (en CFU/ml) : > 300 000

Laboratory J

| Reference | Reference method | | | | | Comparison / expected results | Alternative method VIDAS LMO2 (30°C) | | | | | Comparison / expected results |
|-----------|------------------|--------|--------|--------|---------|-------------------------------|--------------------------------------|------|---------------------|--------------|---------|-------------------------------|
| | Fraser 1/2 | | Fraser | | Results | | LMO2 test | | Results of the test | Confirmation | Results | |
| | OAA | PALCAM | OAA | PALCAM | | | RFV | VT | | | | |
| 6 | - | - | - | - | - | = | -5 | 0.00 | - | - | - | = |
| 7 | - | - | - | - | - | = | -5 | 0.00 | - | - | - | = |
| 8 | - | - | - | - | - | = | -5 | 0.00 | - | - | - | = |
| 14 | - | - | - | - | - | = | -4 | 0.00 | - | - | - | = |
| 15 | - | - | - | - | - | = | -4 | 0.00 | - | - | - | = |
| 19 | - | - | - | - | - | = | -5 | 0.00 | - | - | - | = |
| 20 | - | - | - | - | - | = | -5 | 0.00 | - | - | - | = |
| 21 | - | - | - | - | - | = | -4 | 0.00 | - | - | - | = |
| 1 | + | + | + | + | + | = | 7774 | 2.31 | + | + | + | = |
| 2 | + | + | + | + | + | = | 7952 | 2.30 | + | + | + | = |
| 9 | + | + | + | + | + | = | 8782 | 2.61 | + | + | + | = |
| 10 | + | + | + | + | + | = | 8637 | 2.57 | + | + | + | = |
| 11 | + | + | + | + | + | = | 8332 | 2.48 | + | + | + | = |
| 16 | + | + | + | + | + | = | 8433 | 2.51 | + | + | + | = |
| 22 | + | + | + | + | + | = | 8994 | 2.68 | + | + | + | = |
| 23 | + | + | + | + | + | = | 8690 | 2.50 | + | + | + | = |
| 3 | + | + | + | + | + | = | 7953 | 2.37 | + | + | + | = |
| 4 | + | + | + | + | + | = | 7906 | 2.35 | + | + | + | = |
| 5 | + | + | + | + | + | = | 8034 | 2.39 | + | + | + | = |
| 12 | + | + | + | + | + | = | 8276 | 2.46 | + | + | + | = |
| 13 | + | + | + | + | + | = | 8159 | 2.43 | + | + | + | = |
| 17 | + | + | + | + | + | = | 8391 | 2.50 | + | + | + | = |
| 18 | + | + | + | + | + | = | 8477 | 2.52 | + | + | + | = |
| 24 | + | + | + | + | + | = | 8806 | 2.62 | + | + | + | = |

Total viable count (en CFU/ml) : 480 000

Laboratory K

| Reference | Reference method | | | | | Comparison / expected results | Alternative method VIDAS LMO2 (30°C) | | | | | Comparison / expected results |
|-----------|------------------|--------|--------|--------|---------|-------------------------------|--------------------------------------|------|---------------------|--------------|---------|-------------------------------|
| | Fraser 1/2 | | Fraser | | Results | | LMO2 test | | Results of the test | Confirmation | Results | |
| | OAA | PALCAM | OAA | PALCAM | | | RFV | VT | | | | |
| 6 | - | - | - | - | - | = | -3 | 0.00 | - | - | - | = |
| 7 | - | - | - | - | - | = | -4 | 0.00 | - | - | - | = |
| 8 | - | - | - | - | - | = | -3 | 0.00 | - | - | - | = |
| 14 | - | - | - | - | - | = | -1 | 0.00 | - | - | - | = |
| 15 | - | - | - | - | - | = | -4 | 0.00 | - | - | - | = |
| 19 | - | - | - | - | - | = | -5 | 0.00 | - | - | - | = |
| 20 | - | - | - | - | - | = | -3 | 0.00 | - | - | - | = |
| 21 | - | - | - | - | - | = | -5 | 0.00 | - | - | - | = |
| 1 | + | + | + | + | + | = | 6804 | 1.94 | + | + | + | = |
| 2 | + | + | + | + | + | = | 6891 | 1.95 | + | + | + | = |
| 9 | + | + | + | + | + | = | 6424 | 1.82 | + | + | + | = |
| 10 | + | + | + | + | + | = | 6453 | 1.83 | + | + | + | = |
| 11 | + | + | + | + | + | = | 6687 | 1.89 | + | + | + | = |
| 16 | + | + | + | + | + | = | 6665 | 1.89 | + | + | + | = |
| 22 | + | + | + | + | + | = | 6523 | 1.85 | + | + | + | = |
| 23 | + | + | + | + | + | = | 6386 | 1.81 | + | + | + | = |
| 3 | + | + | + | + | + | = | 6707 | 1.90 | + | + | + | = |
| 4 | + | + | + | + | + | = | 6659 | 1.89 | + | + | + | = |
| 5 | + | + | + | + | + | = | 6413 | 1.82 | + | + | + | = |
| 12 | + | + | + | + | + | = | 6563 | 1.86 | + | + | + | = |
| 13 | + | + | + | + | + | = | 6920 | 1.98 | + | + | + | = |
| 17 | + | + | + | + | + | = | 6433 | 1.82 | + | + | + | = |
| 18 | + | + | + | + | + | = | 6616 | 1.87 | + | + | + | = |
| 24 | + | + | + | + | + | = | 6408 | 1.82 | + | + | + | = |

Total viable count (en CFU/ml) : > 30 000

Laboratory L

| Reference | Reference method | | | | | Comparison / expected results | Alternative method VIDAS LMO2 (30°C) | | | | | Comparison / expected results |
|-----------|------------------|--------|--------|--------|---------|-------------------------------|--------------------------------------|------|---------------------|--------------|---------|-------------------------------|
| | Fraser 1/2 | | Fraser | | Results | | LMO2 test | | Results of the test | Confirmation | Results | |
| | OAA | PALCAM | OAA | PALCAM | | | RFV | VT | | | | |
| 6 | - | - | - | - | - | = | -3 | 0.00 | - | - | - | = |
| 7 | - | - | - | - | - | = | -5 | 0.00 | - | - | - | = |
| 8 | - | - | - | - | - | = | -3 | 0.00 | - | - | - | = |
| 14 | - | - | - | - | - | = | -4 | 0.00 | - | - | - | = |
| 15 | - | - | - | - | - | = | -3 | 0.00 | - | - | - | = |
| 19 | - | - | - | - | - | = | 0 | 0.00 | - | - | - | = |
| 20 | - | - | - | - | - | = | -4 | 0.00 | - | - | - | = |
| 21 | - | - | - | - | - | = | -3 | 0.00 | - | - | - | = |
| 1 | + | + | + | + | + | = | 10452 | 2.75 | + | + | + | = |
| 2 | + | + | + | + | + | = | 10067 | 2.65 | + | + | + | = |
| 9 | + | + | + | + | + | = | 9006 | 2.37 | + | + | + | = |
| 10 | + | + | + | + | + | = | 8782 | 2.31 | + | + | + | = |
| 11 | + | + | + | + | + | = | 8667 | 2.28 | + | + | + | = |
| 16 | + | + | + | + | + | = | 10140 | 2.66 | + | + | + | = |
| 22 | + | + | + | + | + | = | 8600 | 2.26 | + | + | + | = |
| 23 | + | + | + | + | + | = | 8363 | 2.20 | + | + | + | = |
| 3 | + | + | + | + | + | = | 10228 | 2.69 | + | + | + | = |
| 4 | + | + | + | + | + | = | 9982 | 2.62 | + | + | + | = |
| 5 | + | + | + | + | + | = | 9996 | 2.63 | + | + | + | = |
| 12 | + | + | + | + | + | = | 8700 | 2.29 | + | + | + | = |
| 13 | + | + | + | + | + | = | 10878 | 2.86 | + | + | + | = |
| 17 | + | + | + | + | + | = | 9731 | 2.56 | + | + | + | = |
| 18 | + | + | + | + | + | = | 9845 | 2.59 | + | + | + | = |
| 24 | + | + | + | + | + | = | 8942 | 2.35 | + | + | + | = |

Total viable count (en CFU/ml) : > 30 000

Laboratory M

| Reference | Reference method | | | | | Comparison / expected results | Alternative method VIDAS LMO2 (30°C) | | | | | Comparison / expected results |
|-----------|------------------|--------|--------|--------|---------|-------------------------------|--------------------------------------|------|---------------------|--------------|---------|-------------------------------|
| | Fraser 1/2 | | Fraser | | Results | | LMO2 test | | Results of the test | Confirmation | Results | |
| | OAA | PALCAM | OAA | PALCAM | | | RFV | VT | | | | |
| 6 | - | - | - | - | - | = | -2 | 0.00 | - | - | - | = |
| 7 | - | - | - | - | - | = | -3 | 0.00 | - | - | - | = |
| 8 | - | - | - | - | - | = | -3 | 0.00 | - | - | - | = |
| 14 | - | - | - | - | - | = | -4 | 0.00 | - | - | - | = |
| 15 | - | - | - | - | - | = | -3 | 0.00 | - | - | - | = |
| 19 | - | - | - | - | - | = | -3 | 0.00 | - | - | - | = |
| 20 | - | - | - | - | - | = | -4 | 0.00 | - | - | - | = |
| 21 | - | - | - | - | - | = | -4 | 0.00 | - | - | - | = |
| 1 | + | + | + | + | + | = | 7383 | 1.85 | + | + | + | = |
| 2 | + | + | + | + | + | = | 7964 | 2.00 | + | + | + | = |
| 9 | + | + | + | + | + | = | 7904 | 1.98 | + | + | + | = |
| 10 | + | + | + | + | + | = | 7508 | 1.88 | + | + | + | = |
| 11 | + | + | + | + | + | = | 8765 | 2.20 | + | + | + | = |
| 16 | + | + | + | + | + | = | 8267 | 2.07 | + | + | + | = |
| 22 | + | + | + | + | + | = | 7936 | 1.99 | + | + | + | = |
| 23 | + | + | + | + | + | = | 7891 | 1.98 | + | + | + | = |
| 3 | + | + | + | + | + | = | 7527 | 1.89 | + | + | + | = |
| 4 | + | + | + | + | + | = | 7546 | 1.89 | + | + | + | = |
| 5 | + | + | + | + | + | = | 7606 | 1.91 | + | + | + | = |
| 12 | + | + | + | + | + | = | 7536 | 1.89 | + | + | + | = |
| 13 | + | + | + | + | + | = | 7490 | 1.88 | + | + | + | = |
| 17 | + | + | + | + | + | = | 7938 | 1.99 | + | + | + | = |
| 18 | + | + | + | + | + | = | 8225 | 2.06 | + | + | + | = |
| 24 | + | + | + | + | + | = | 7331 | 1.84 | + | + | + | = |

Total viable count (en CFU/ml) : > 30 000

Laboratory N

| Reference | Reference method | | | | | Comparison / expected results | Alternative method VIDAS LMO2 (30°C) | | | | | Comparison / expected results |
|-----------|------------------|--------|--------|--------|---------|-------------------------------|--------------------------------------|------|---------------------|--------------|---------|-------------------------------|
| | Fraser 1/2 | | Fraser | | Results | | LMO2 test | | Results of the test | Confirmation | Results | |
| | OAA | PALCAM | OAA | PALCAM | | | RFV | VT | | | | |
| 6 | - | - | - | - | - | = | 0 | 0.00 | - | - | - | = |
| 7 | - | - | - | - | - | = | -3 | 0.00 | - | - | - | = |
| 8 | - | - | - | - | - | = | -4 | 0.00 | - | - | - | = |
| 14 | - | - | - | - | - | = | -5 | 0.00 | - | - | - | = |
| 15 | - | - | - | - | - | = | -1 | 0.00 | - | - | - | = |
| 19 | - | - | - | - | - | = | -5 | 0.00 | - | - | - | = |
| 20 | - | - | - | - | - | = | 1 | 0.00 | - | - | - | = |
| 21 | - | - | - | - | - | = | 3 | 0.00 | - | - | - | = |
| 1 | + | + | + | + | + | = | 8119 | 2.00 | + | + | + | = |
| 2 | + | + | + | + | + | = | 8179 | 2.02 | + | + | + | = |
| 9 | + | + | + | + | + | = | 7619 | 1.88 | + | + | + | = |
| 10 | + | + | + | + | + | = | 7541 | 1.86 | + | + | + | = |
| 11 | + | + | + | + | + | = | 7565 | 1.86 | + | + | + | = |
| 16 | + | + | + | + | + | = | 8062 | 1.99 | + | + | + | = |
| 22 | + | + | + | + | + | = | 7903 | 1.95 | + | + | + | = |
| 23 | + | + | + | + | + | = | 7657 | 1.89 | + | + | + | = |
| 3 | + | + | + | + | + | = | 8109 | 2.00 | + | + | + | = |
| 4 | + | + | + | + | + | = | 7900 | 1.95 | + | + | + | = |
| 5 | + | + | + | + | + | = | 7974 | 1.97 | + | + | + | = |
| 12 | + | + | + | + | + | = | 7270 | 1.79 | + | + | + | = |
| 13 | + | + | + | + | + | = | 8192 | 2.02 | + | + | + | = |
| 17 | + | + | + | + | + | = | 7681 | 1.89 | + | + | + | = |
| 18 | + | + | + | + | + | = | 7647 | 1.89 | + | + | + | = |
| 24 | + | + | + | + | + | = | 7902 | 1.95 | + | + | + | = |

Total viable count (en CFU/ml) : > 15 000

Laboratory O

| Reference | Reference method | | | | | Comparison / expected results | Alternative method VIDAS LMO2 (30°C) | | | | | Comparison / expected results |
|-----------|------------------|--------|--------|--------|---------|-------------------------------|--------------------------------------|------|---------------------|--------------|---------|-------------------------------|
| | Fraser 1/2 | | Fraser | | Results | | LMO2 test | | Results of the test | Confirmation | Results | |
| | OAA | PALCAM | OAA | PALCAM | | | RFV | VT | | | | |
| 6 | - | - | - | - | - | = | -5 | 0.00 | - | - | - | = |
| 7 | - | - | - | - | - | = | -5 | 0.00 | - | - | - | = |
| 8 | - | - | - | - | - | = | -4 | 0.00 | - | - | - | = |
| 14 | - | - | - | - | - | = | -4 | 0.00 | - | - | - | = |
| 15 | - | - | - | - | - | = | -4 | 0.00 | - | - | - | = |
| 19 | - | - | - | - | - | = | -4 | 0.00 | - | - | - | = |
| 20 | - | - | - | - | - | = | -4 | 0.00 | - | - | - | = |
| 21 | - | - | - | - | - | = | -5 | 0.00 | - | - | - | = |
| 1 | + | + | + | + | + | = | 8120 | 2.25 | + | + | + | = |
| 2 | + | + | + | + | + | = | 8203 | 2.27 | + | + | + | = |
| 9 | + | + | + | + | + | = | 7969 | 2.21 | + | + | + | = |
| 10 | + | + | + | + | + | = | 7609 | 2.11 | + | + | + | = |
| 11 | + | + | + | + | + | = | 7460 | 2.07 | + | + | + | = |
| 16 | + | + | + | + | + | = | 7751 | 2.15 | + | + | + | = |
| 22 | + | + | + | + | + | = | 7778 | 2.15 | + | + | + | = |
| 23 | + | + | + | + | + | = | 7538 | 2.09 | + | + | + | = |
| 3 | + | + | + | + | + | = | 7421 | 2.06 | + | + | + | = |
| 4 | + | + | + | + | + | = | 7352 | 2.04 | + | + | + | = |
| 5 | + | + | + | + | + | = | 8919 | 2.47 | + | + | + | = |
| 12 | + | + | + | + | + | = | 9173 | 2.54 | + | + | + | = |
| 13 | + | + | + | + | + | = | 9492 | 2.63 | + | + | + | = |
| 17 | + | + | + | + | + | = | 9246 | 2.56 | + | + | + | = |
| 18 | + | + | + | + | + | = | 9134 | 2.53 | + | + | + | = |
| 24 | + | + | + | + | + | = | 9028 | 2.50 | + | + | + | = |

Total viable count (en CFU/ml) : > 300 000

Laboratory P

| Reference | Reference method | | | | | Comparison / expected results | Alternative method VIDAS LMO2 (30°C) | | | | | Comparison / expected results |
|-----------|------------------|--------|--------|--------|---------|-------------------------------|--------------------------------------|------|---------------------|--------------|---------|-------------------------------|
| | Fraser 1/2 | | Fraser | | Results | | LMO2 test | | Results of the test | Confirmation | Results | |
| | OAA | PALCAM | OAA | PALCAM | | | RFV | VT | | | | |
| 6 | - | - | - | - | - | = | -4 | 0.00 | - | - | - | = |
| 7 | - | - | - | - | - | = | -3 | 0.00 | - | - | - | = |
| 8 | - | - | - | - | - | = | -4 | 0.00 | - | - | - | = |
| 14 | - | - | - | - | - | = | -4 | 0.00 | - | - | - | = |
| 15 | - | - | - | - | - | = | -4 | 0.00 | - | - | - | = |
| 19 | - | - | - | - | - | = | -3 | 0.00 | - | - | - | = |
| 20 | - | - | - | - | - | = | -4 | 0.00 | - | - | - | = |
| 21 | - | - | - | - | - | = | -3 | 0.00 | - | - | - | = |
| 1 | + | + | + | + | + | = | 8059 | 2.03 | + | + | + | = |
| 2 | + | + | + | + | + | = | 8032 | 2.02 | + | + | + | = |
| 9 | + | + | + | + | + | = | 7786 | 1.96 | + | + | + | = |
| 10 | + | + | + | + | + | = | 7315 | 1.84 | + | + | + | = |
| 11 | + | + | + | + | + | = | 8026 | 2.02 | + | + | + | = |
| 16 | + | + | + | + | + | = | 7902 | 1.99 | + | + | + | = |
| 22 | + | + | + | + | + | = | 7574 | 1.91 | + | + | + | = |
| 23 | + | + | + | + | + | = | 7680 | 1.93 | + | + | + | = |
| 3 | + | + | + | + | + | = | 7093 | 1.79 | + | + | + | = |
| 4 | + | + | + | + | + | = | 7444 | 1.88 | + | + | + | = |
| 5 | + | + | + | + | + | = | 7532 | 1.90 | + | + | + | = |
| 12 | + | + | + | + | + | = | 7543 | 1.90 | + | + | + | = |
| 13 | + | + | + | + | + | = | 7284 | 1.83 | + | + | + | = |
| 17 | + | + | + | + | + | = | 6992 | 1.76 | + | + | + | = |
| 18 | + | + | + | + | + | = | 7124 | 1.79 | + | + | + | = |
| 24 | + | + | + | + | + | = | 7554 | 1.90 | + | + | + | = |

Total viable count (en CFU/ml) : > 30 000