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

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

# GeneDisc® Plate *Listeria* DUO and GeneDisc® Plate *Listeria monocytogenes*
**(Certificate number: GEN 25/08 - 07/10)**

for the detection of *Listeria monocytogenes*
in a broad range of food and production environmental samples

## Qualitative method

| | |
|---|---|
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| *For:* | **Pall GeneDisc Technologies**<br>Centres d'Affaires CICEA<br>4 rue du Courtil<br>F-35170 Bruz (France) |

This report consists of 114 pages, including 7 appendices.
Only copies including the totality of this report are authorised.
Competencies of the laboratory are certified by COFRAC accreditation for the analyses marked with the symbol◆.

Version 0
18 July 2022

Quality Assurance documents related to this study can be consulted upon request from **Pall GeneDisc Technologies**.

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

| | |
|---|---|
| **Validation protocols** | ▪ ISO 16140-1 (2016): Microbiology of the food chain - Method validation — *Part 1: Vocabulary*<br>▪ ISO 16140-2(2016): Microbiology of the food chain - Method validation — *Part 2: Protocol for the validation of alternative (proprietary) methods against a reference method*<br>▪ AFNOR technical rules (PR Revision 7) |
| **Reference method**♦ | ISO 11290-1 (May 2017): Microbiology of the food chain - Horizontal method for the detection and enumeration of *Listeria monocytogenes* and of *Listeria* spp.- Part 1: detection methd |
| **Alternative method** | **GeneDisc® Plate *Listeria* DUO and**<br>**GeneDisc® Plate *Listeria monocytogenes*** |
| **Scope** | ☒ **Broad range of food**<br>☒ **Production environmental samples** |
| **Certification organism** | AFNOR Certification (http://nf-validation.afnor.org/) |

♦ Analyses performed according to the COFRAC accreditation

# 1 INTRODUCTION

The **GeneDisc® Plate *Listeria* DUO** and the **GeneDisc® Plate *Listeria monocytogenes*** for detection of *Listeria monocytogenes* were initially validated on 2nd July 2010 (Certificate number GEN 25/08 - 07/10).

A summary of the different validation studies is listed below:

| Date | Study | ISO method | ISO validation standard |
|---|---|---|---|
| July 2010 | Initial validation | ISO 11290-1 (1997) | ISO 16140 (2003) |
| March 2011 | Extension: GeneDisc Cycler V3 | ISO 11290-1 (1997) | ISO 16140 (2003) |
| October 2012 | Extension: GeneDisc Ultra-Lyser | / | / |
| July 2013 | Extension: GeneDisc DNA Extractor | / | / |
| 2014 | Renewal | ISO 11290-1 (1997) | ISO 16140 (2003) |
| October 2015 | Extension: change of supplier of raw material | / | / |
| 2018 | Renewal | ISO 11290-1 (2017) | ISO 16140-2 (2016) |
| June 2022 | Renewal | ISO 11290-1 (2017) | ISO 16140-2 (2016) |

*Note that the GeneDisc Plates ID has been used during this validation but is not covered by the certificate.*

# 2 METHOD PROTOCOLS

## 2.1 Alternative method

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

### *2.1.1 Principle*

The GeneDisc Plate DUO and the GeneDisc Plate *Listeria monocytogenes* methods enables the detection of *Listeria monocytogenes* in food and environmental samples. It requires the use of the Extraction Pack Food 1. Extracted bacterial DNA is analyzed thanks to the GeneDisc Cycler v3. using the GeneDisc Plate *Listeria* DUO or the GeneDisc Plate *Listeria monocytogenes*.

### 2.1.2 Protocol

The GeneDisc Plate *Listeria* DUO method and the GeneDisc Plate *Listeria monocytogenes* are based on:

- Enrichment step in half Fraser at 37°C:
  * for raw milks: 20 h ± 2 h
  * for all food and production environmental samples: 25 h ± 1 h,

- DNA extraction according to Protocol A (sonication bath + heat treatment) or Protocol B (GeneDisc Ultra-Lyser or GeneDisc DNA extractor),

- Real-time PCR amplification for the detection of *Listeria spp.* and *Listeria monocytogenes* using the following GeneDisc kits:
  * Extraction Pack FOOD 1 (PFOOD1100),
  * GeneDisc Plate *Listeria* DUO (GLISDUO106006 & GLISDUO112006)
  * GeneDisc Plate *Listeria monocytogenes* (GLISMON206006 & GLISMON212006).

| | | GeneDiscs 6 sectors | | | GeneDiscs 12 sectors | |
|---|---|---|---|---|---|---|
| | | FAM | ROX | | FAM | ROX |
| GeneDisc Plate *Listeria* DUO | 1 | - | - | 1 | Inhibition control | - |
| | 2 | Inhibition control | - | 2 | - | *Listeria* spp. |
| | 3 | - | *Listeria* spp. | 3 | *L. monocytogenes* | - |
| | 4 | *L. monocytogenes* | - | | | |
| | 5 | - | - | | | |
| | 6 | - | - | | | |
| GeneDisc Plate *Listeria monocytogenes* | 1 | - | - | 1 | Inhibition control | - |
| | 2 | Inhibition control | - | 2 | - | - |
| | 3 | - | - | 3 | *L. monocytogenes* | - |
| | 4 | *L. monocytogenes* | - | | | |
| | 5 | - | - | | | |
| | 6 | - | - | | | |

The positive PCR tests can be confirmed by one of the following options:

- Option 1: by using the tests described in the ISO 11290-1 from the enrichment broth

- Option 2: by streaking 100 µl of the enrichment broth onto O&A selective agar plates; the presence of typical colonies on the plates allows to confirm the positive PCR result.

It is possible to store enrichment broths for 72 h at 5°C ± 3°C.

### *2.1.3 Restrictions*

There is no restriction.

## 2.2 Reference method◆

The reference method is the ISO 11290-1 (May 2017): Microbiology of the food chain - Horizontal method for the detection and enumeration of *Listeria monocytogenes* and of *Listeria* spp.- Part 1: detection method.

The flow diagram is given in **Appendix 2**.

## 2.3 Study design

The enrichment incubation temperatures are different for the reference and the alternative methods; it is an **unpaired study design**.

◆ Analysis performed according to the COFRAC accreditation

# 3 INITIAL VALIDATION STUDY AND EXTENSION/RENEWAL STUDIES: RESULTS

## 3.1 Method comparison study

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

*The study was carried out on a diversity of samples and strains representative of agri-food products. This does not constitute an exhaustive list of the different matrices included in the scope.*
*For any comment on the alternative method, please contact AFNOR Certification at http://nf-validation.afnor.org/contact-2/.*

### *3.1.1 Sensitivity study*

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

#### *3.1.1.1 Number and nature of samples*

444 samples were analysed in 2010 (initial validation) and 53 in 2014 (extension study), representing a total of 497 samples.

A new category (Composite foods) was added for the renewal study performed in 2018 in order to have the five food categories required for a broad range of food claim.
The other categories were completed in order to have 20 positive and 20 negative samples per type.
For the environment samples category, as the calculated values for ((ND + PPND) - PD) did not meet the Acceptability Limit, it was decided to test again the complete category for the renewal study. 147 samples were tested providing 78 positive and 69 negative results by both extraction procedures.

Combining all the categories, 548 samples were tested providing 233 positive and 315 negative results using the extraction protocols A or B.

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

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

| Extraction protocol A | | | | | | |
|---|---|---|---|---|---|---|
| Category | | Type | | Positive samples | Negative samples | Total |
| 1 | Composite foods | a | RTE | 9 | 19 | 28 |
| | | b | RTRH | 10 | 20 | 30 |
| | | c | Pastries, egg products | 11 | 14 | 25 |
| | | | Total | 30 | 53 | 83 |
| 2 | Meat products | a | Raw | 15 | 29 | 44 |
| | | b | RTE, RTRH | 8 | 13 | 21 |
| | | c | Delicatessen | 14 | 13 | 27 |
| | | | Total | 37 | 55 | 92 |
| 3 | Dairy products | a | Raw milk (Specific protocol) | 30 | 50 | 80 |
| | | b | Raw milk cheese | 20 | 26 | 46 |
| | | c | Desserts, milk, powders, ice creams, pasteurised milk cheese | 10 | 16 | 26 |
| | | | Total | 60 | 92 | 152 |
| 4 | Vegetables | a | Fresh vegetables | 10 | 11 | 21 |
| | | b | Frozen vegetables | 12 | 13 | 25 |
| | | c | RTE, RTRH | 12 | 14 | 26 |
| | | | Total | 34 | 38 | 72 |
| 5 | Fishery products | a | Raw fish | 11 | 17 | 28 |
| | | b | Smoked and cured fish | 7 | 15 | 22 |
| | | c | RTE, RTRH | 12 | 13 | 25 |
| | | | Total | 30 | 45 | 75 |
| 6 | Environmental Samples | a | Process water | 11 | 9 | 20 |
| | | b | Sponges, swabs, | 9 | 15 | 24 |
| | | c | Dusts, residues | 22 | 8 | 30 |
| | | | Total | 42 | 32 | 74 |
| **All categories** | | | | **233** | **315** | **548** |

| Extraction protocol B | | | | | | |
|---|---|---|---|---|---|---|
| Category | | Type | | Positive samples | Negative samples | Total |
| 1 | Composite foods | a | RTE | 9 | 19 | 28 |
| | | b | RTRH | 11 | 19 | 30 |
| | | c | Pastries, egg products | 11 | 14 | 25 |
| | | | Total | 31 | 52 | 83 |
| 2 | Meat products | a | Raw | 15 | 29 | 44 |
| | | b | RTE, RTRH | 8 | 13 | 21 |
| | | c | Delicatessen | 14 | 13 | 27 |
| | | | Total | 37 | 55 | 92 |
| 3 | Dairy products | a | Raw milk (Specific protocol) | 30 | 50 | 80 |
| | | b | Raw milk cheese | 19 | 27 | 46 |
| | | c | Desserts, milk, powders, ice creams, pasteurised milk cheese | 9 | 17 | 26 |
| | | | Total | 58 | 94 | 152 |
| 4 | Vegetables | a | Fresh vegetables | 10 | 11 | 21 |
| | | b | Frozen vegetables | 12 | 13 | 25 |
| | | c | RTE, RTRH | 12 | 14 | 26 |
| | | | Total | 34 | 38 | 72 |
| 5 | Fishery products | a | Raw fish | 11 | 17 | 28 |
| | | b | Smoked and cured fish | 8 | 14 | 22 |
| | | c | RTE, RTRH | 12 | 13 | 25 |
| | | | Total | 31 | 44 | 75 |
| 6 | Environmental Samples | a | Process water | 11 | 9 | 20 |
| | | b | Sponges, swabs, | 9 | 15 | 24 |
| | | c | Dusts, residues | 22 | 8 | 30 |
| | | | Total | 42 | 32 | 74 |
| **All categories** | | | | **233** | **315** | **548** |

### *3.1.1.2 Artificial contamination of samples*

Artificial contaminations were done by spiking or seeding protocol. For the spiking protocol, strains were injured using different protocols, and the injury level was evaluated by comparing enumeration onto selective media (Palcam plates) and non-selective media (TSAYE plates). The artificial contaminations are presented in **Appendix 3**.

141 samples were artificially contaminated. 107 gave a positive result using the extraction protocol A and 106 with the extraction protocol B.

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

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

| | | Naturally contaminated | Cross contamination | Artificially contaminated | | | | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Seeding protocol | | | Spiking protocol | | | |
| | | | | ≤3 | 3<x≤10 | >10 | ≤5 | 5< x≤10 | >10 | |
| Protocol A | Positive samples | 126 | 3 | 66 | 0 | 0 | 14 | 20 | 4 | 233 |
| | % | 54,1 | 1,3 | 28,3 | 0,0 | 0,0 | 6,0 | 8,6 | 1,7 | 100,0 |
| Protocol B | Positive samples | 127 | 3 | 66 | 0 | 0 | 14 | 19 | 4 | 233 |
| | % | 54,5 | 1,3 | 28,3 | 0,0 | 0,0 | 6,0 | 8,2 | 1,7 | 100,0 |

**54.1 % and 54.5 % of the samples were naturally contaminated respectively for extraction protocols A and B.**

### *3.1.1.3 Protocols run during the study*

#### ***Incubation time***

The minimum incubation time was applied for the renewal study:

- Raw milks: 18 h at 37°C ± 1°C,
- All food and environmental samples: 24 h at 37°C ± 1°C.

#### ***Extraction protocols***

Two extraction protocols were tested for the initial validation study and the extension carried out In 2014 for raw milks. These two protocols were also tested for the renewal study after enrichment step. Only the extraction protocol A was tested after enrichment broth storage for 72 h at 5°C ± 3°C.

#### ***PCR***

During the study, the DNA extracts were tested with the GLISDUO112006 and GLISTID106006 kits. Only the GeneDisc *Listeria* DUO was tested for *Listeria monocytogenes* detection as the GeneDisc *Listeria monocytogenes* and the GeneDisc *Listeria* DUO have the same configuration.

#### ***Confirmations***

The following tests were applied:

- Tests described in the ISO 11290-1,
- Streaking 100 µl of the enrichment broth onto O&A and Palcam selective agar plates.

The typical colonies were confirmed by the tests described in the reference method, by using biochemical galleries and the GeneDisc Listeria identification.

#### ***Enrichment broth storage***

The enrichment broth of the alternative method given positive and discordant samples was tested again after 72 h storage at 5°C ± 3°C. The alternative method (extraction protocol A) and the confirmatory tests were carried out again.

### *3.1.1.4 Test results*

Raw data per category are given in **Appendix 4.**

The results are given in Table 3.

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

| Extraction protocol A | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Category | PA | NA* | PD | ND** | PPND | PPNA | Total |
| 1 | Composite foods | 12 | 53 | 11 | 7 | 0 | 0 | **83** |
| 2 | Meat products | 25 | 54 | 7 | 5 | 0 | 1 | **92** |
| 3 | Dairy products | 40 | 92 | 10 | 10 | 0 | 0 | **152** |
| 4 | Vegetables | 21 | 38 | 9 | 4 | 0 | 0 | **72** |
| 5 | Fishery products | 21 | 45 | 5 | 3 | 1 | 0 | **75** |
| 6 | Environmental samples | 32 | 32 | 4 | 6 | 0 | 0 | **74** |
| | All categories | **151** | **314** | 46 | 35 | 1 | **1** | **548** |
| | Raw milk (specific protocol) | **19** | **50** | **5** | **6** | **0** | **0** | **80** |

| Extraction protocol B | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Category | PA | NA * | PD | ND ** | PPND | PPNA | Total |
| | Composite foods | 9 | 51 | 12 | 10 | 0 | 1 | **83** |
| | Meat products | 26 | 55 | 7 | 4 | 0 | 0 | **92** |
| | Dairy products | 39 | 92 | 8 | 10 | 1 | 2 | **152** |
| | Vegetables | 22 | 37 | 9 | 3 | 0 | 1 | **72** |
| | Fishery products | 21 | 43 | 6 | 3 | 1 | 1 | **75** |
| | Environmental samples | 32 | 32 | 4 | 6 | 0 | 0 | **74** |
| | All categories | **149** | **310** | 46 | 36 | 2 | **5** | **548** |
| | Raw milk (specific protocol) | **18** | **48** | **5** | **6** | **1** | **2** | **80** |

* PPNA not included

** PPND not included

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

The calculations are presented in Table 4.

**Table 4 – Calculation of the relative trueness (RT), the sensitivity (SE) and the false positive ratio (FPR)**

| Extraction protocol A | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | | Type | | PA | NA* | PD | ND** | PPND | PPNA | $SE_{alt}$ % | $SE_{ref}$ % | RT % | FPR % |
| 1 | Composite foods | a | RTE | 4 | 19 | 3 | 2 | 0 | 0 | 77,8 | 66,7 | 82,1 | 0,0 |
| | | b | RTRH | 4 | 20 | 5 | 1 | 0 | 0 | 90,0 | 50,0 | 80,0 | 0,0 |
| | | c | Pastries, egg products | 4 | 14 | 3 | 4 | 0 | 0 | 63,6 | 72,7 | 72,0 | 0,0 |
| | | | Total | 12 | 53 | 11 | 7 | 0 | 0 | 76,7 | 63,3 | 78,3 | 0,0 |
| 2 | Meat products | a | Raw | 12 | 29 | 2 | 1 | 0 | 0 | 93,3 | 86,7 | 93,2 | 0,0 |
| | | b | RTE, RTRH | 4 | 13 | 3 | 1 | 0 | 0 | 87,5 | 62,5 | 81,0 | 0,0 |
| | | c | Delicatessen | 9 | 12 | 2 | 3 | 0 | 1 | 78,6 | 85,7 | 81,5 | 8,3 |
| | | | Total | 25 | 54 | 7 | 5 | 0 | 1 | 86,5 | 81,1 | 87,0 | 1,8 |
| 3 | Dairy products | a | Raw milk | 19 | 50 | 5 | 6 | 0 | 0 | 80,0 | 83,3 | 86,3 | 0,0 |
| | | b | Raw milk cheese | 15 | 26 | 2 | 3 | 0 | 0 | 85,0 | 90,0 | 89,1 | 0,0 |
| | | c | Desserts, milk, powders, ice creams, pasteurised milk cheese | 6 | 16 | 3 | 1 | 0 | 0 | 90,0 | 70,0 | 84,6 | 0,0 |
| | | | Total | 40 | 92 | 10 | 10 | 0 | 0 | 83,3 | 83,3 | 86,8 | 0,0 |
| 4 | Vegetables | a | Fresh and frozen vegetables | 7 | 11 | 0 | 3 | 0 | 0 | 70,0 | 100,0 | 85,7 | 0,0 |
| | | b | Frozen vegetables | 6 | 13 | 5 | 1 | 0 | 0 | 91,7 | 58,3 | 76,0 | 0,0 |
| | | c | RTE, RTRH | 8 | 14 | 4 | 0 | 0 | 0 | 100,0 | 66,7 | 84,6 | 0,0 |
| | | | Total | 21 | 38 | 9 | 4 | 0 | 0 | 88,2 | 73,5 | 81,9 | 0,0 |
| 5 | Fishery products | a | Raw fish | 7 | 17 | 2 | 2 | 0 | 0 | 81,8 | 81,8 | 85,7 | 0,0 |
| | | b | Smoked and cured fish | 5 | 15 | 1 | 1 | 0 | 0 | 85,7 | 85,7 | 90,9 | 0,0 |
| | | c | RTE, RTRH | 9 | 13 | 2 | 0 | 1 | 0 | 91,7 | 83,3 | 88,0 | 7,7 |
| | | | Total | 21 | 45 | 5 | 3 | 1 | 0 | 86,7 | 83,3 | 88,0 | 2,2 |
| 6 | Environmental Samples | a | Process water | 8 | 9 | 0 | 3 | 0 | 0 | 72,7 | 100,0 | 85,0 | 0,0 |
| | | b | Sponges, swabs | 6 | 15 | 2 | 1 | 0 | 0 | 88,9 | 77,8 | 87,5 | 0,0 |
| | | c | Dusts, residues | 18 | 8 | 2 | 2 | 0 | 0 | 90,9 | 90,9 | 86,7 | 0,0 |
| | | | Total | 32 | 32 | 4 | 6 | 0 | 0 | 85,7 | 90,5 | 86,5 | 0,0 |
| **All categories** | | | | **151** | **314** | **46** | **35** | **1** | **1** | **84,5** | **80,3** | **85,0** | **0,6** |
| **Raw milk (specific protocol)** | | | | **19** | **50** | **5** | **6** | **0** | **0** | **80,0** | **83,3** | **86,3** | **0,0** |

* PPNA not included ** PPND not included

| Extraction protocol B | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | | Type | | PA | NA* | PD | ND** | PPND | PPNA | SE $_{alt}$ % | SE $_{ref}$ % | RT % | FPR % |
| 1 | Composite foods | a | RTE | 3 | 18 | 3 | 3 | 0 | 1 | 66,7 | 66,7 | 78,6 | 5,6 |
| | | b | RTRH | 3 | 19 | 6 | 2 | 0 | 0 | 81,8 | 45,5 | 73,3 | 0,0 |
| | | c | Pastries, egg products | 3 | 14 | 3 | 5 | 0 | 0 | 54,5 | 72,7 | 68,0 | 0,0 |
| | | | Total | 9 | 51 | 12 | 10 | 0 | 1 | 67,7 | 61,3 | 73,5 | 1,9 |
| 2 | Meat products | a | Raw | 12 | 29 | 2 | 1 | 0 | 0 | 93,3 | 86,7 | 93,2 | 0,0 |
| | | b | RTE, RTRH | 5 | 13 | 3 | 0 | 0 | 0 | 100,0 | 62,5 | 85,7 | 0,0 |
| | | c | Delicatessen | 9 | 13 | 2 | 3 | 0 | 0 | 78,6 | 85,7 | 81,5 | 0,0 |
| | | | Total | 26 | 55 | 7 | 4 | 0 | 0 | 89,2 | 81,1 | 88,0 | 0,0 |
| 3 | Dairy products | a | Raw milk | 18 | 48 | 5 | 6 | 1 | 2 | 76,7 | 83,3 | 85,0 | 6,3 |
| | | b | Raw milk cheese | 16 | 27 | 1 | 2 | 0 | 0 | 89,5 | 94,7 | 93,5 | 0,0 |
| | | c | Desserts, milk, powders, ice creams, pasteurised milk cheese | 5 | 17 | 2 | 2 | 0 | 0 | 77,8 | 77,8 | 84,6 | 0,0 |
| | | | Total | 39 | 92 | 8 | 10 | 1 | 2 | 81,0 | 86,2 | 87,5 | 3,2 |
| 4 | Vegetables | a | Fresh and frozen vegetables | 7 | 10 | 0 | 3 | 0 | 1 | 70,0 | 100,0 | 85,7 | 10,0 |
| | | b | Frozen vegetables | 7 | 13 | 5 | 0 | 0 | 0 | 100,0 | 58,3 | 80,0 | 0,0 |
| | | c | RTE, RTRH | 8 | 14 | 4 | 0 | 0 | 0 | 100,0 | 66,7 | 84,6 | 0,0 |
| | | | Total | 22 | 37 | 9 | 3 | 0 | 1 | 91,2 | 73,5 | 83,3 | 2,6 |
| 5 | Fishery products | a | Raw fish | 7 | 16 | 2 | 2 | 0 | 1 | 81,8 | 81,8 | 85,7 | 6,3 |
| | | b | Smoked and cured fish | 5 | 14 | 2 | 1 | 0 | 0 | 87,5 | 75,0 | 86,4 | 0,0 |
| | | c | RTE, RTRH | 9 | 13 | 2 | 0 | 1 | 0 | 91,7 | 83,3 | 88,0 | 7,7 |
| | | | Total | 21 | 43 | 6 | 3 | 1 | 1 | 87,1 | 80,6 | 86,7 | 4,5 |
| 6 | Environmental Samples | a | Process water | 8 | 9 | 0 | 3 | 0 | 0 | 72,7 | 100,0 | 85,0 | 0,0 |
| | | b | Sponges, swabs | 6 | 15 | 2 | 1 | 0 | 0 | 88,9 | 77,8 | 87,5 | 0,0 |
| | | c | Dusts, residues | 18 | 8 | 2 | 2 | 0 | 0 | 90,9 | 90,9 | 86,7 | 0,0 |
| | | | Total | 32 | 32 | 4 | 6 | 0 | 0 | 85,7 | 90,5 | 86,5 | 0,0 |
| **All categories** | | | | **149** | **310** | **46** | **36** | **2** | **5** | **83,7** | **80,3** | **84,7** | **2,2** |
| **Raw milk (specific protocol)** | | | | **18** | **48** | **5** | **6** | **1** | **2** | **76,7** | **83,3** | **85,0** | **6,0** |

* PPNA not included ** PPND not included

A summary of the results is given in Table 5.

**Table 5 - Summary of results**

| | | Extraction protocol A | Extraction protocol B |
|---|---|---|---|
| **Sensitivity for the alternative method** | $SE_{alt} = \frac{(PA+PD)}{(PA+ND+PD)} \times 100\%$ | 84.5 % | 83.7 % |
| **Sensitivity for the reference method** | $SE_{ref} = \frac{(PA+ND)}{(PA+ND+PD)} \ x\ 100\ \%$ | 80.3 % | 80.3 % |
| **Relative trueness** | $RT = \frac{(PA+NA)}{N} \times 100\%$ | 85.0 % | 84.7 % |
| **False positive ratio for the alternative method***<br>**FP = PPNA + PPND** | $FPR = \frac{(FP)}{NA} \times 100\%$ | 0.6 % | 2.2 % |

*With* *ND = ND + PPND*
*NA = NA + PPNA*

### *3.1.1.6 Analysis of discordant results*

The negative deviations are given in Table 6 and the positive deviations in Table 7.

36 negative deviations were observed with the extraction protocol A and 38 with the extraction protocol B.
20 samples were artificially contaminated and 22 naturally contaminated.
For 12 samples, *Listeria monocytogenes* was detected, in Half Fraser broth (9 samples), after subculture in Fraser (2 samples) and after Half Fraser broth storage for 72 h at 5°C ± 3°C (1 sample).

46 positive deviations were observed for both extraction protocols: 24 concern artificially contaminated samples and 22 naturally contaminated samples.

## Table 6 - Negative deviations

| Sample N° | Product (English name) | Artificial contaminations | | Reference method: ISO 11290-1♦ | | GeneDisc® *Listeria* DUO for the detection of *Listeria monocytogenes* – Half Fraser broth 20 h ± 2 h at 37°C for raw milk; 25 h ± 1 h for all other products | | | | | | | Category | Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PCR *Listeria monocytogenes* | | All confirmatory tests | Listeria monocytogenes | | | | | |
| | | Strain | Inoculation level CFU/sample | Identification | Result | Extraction A | Extraction B | | Final result PCR A | Final result PCR B | Agreement Ref/Alt PCR A | Agreement Ref/Alt PCR B | | |
| 4322 | RTE Salad with pasta | / | / | *L. monocytogenes* | + | +35,9/+35,8/- | -/-/- | +(Fraser 1) | + | - | PA | ND | 1 | a |
| **4390** | **Sandwich with ham and cheese** | *L. monocytogenes* Ad276 | 0,4 | *L. monocytogenes* | + | - | - | - | - | - | ND | ND | 1 | a |
| **4397** | **Salad with ham** | *L. monocytogenes* Ad1495 | 1,2 | *L. monocytogenes* | + | - | - | - | - | - | ND | ND | 1 | a |
| 2134 | Pizza | | / | *L.monocytogenes* | + | + | - | + | + | - | PA | ND | 1 | b |
| **4400** | **RTRH food** | *L. monocytogenes* Ad466 | 0,8 | *L. monocytogenes* | + | - | - | - | - | - | ND | ND | 1 | b |
| 2131 | Omelette | | / | *L.monocytogenes* | + | + | - | + | + | - | PA | ND | 1 | c |
| 212 | Omelette | / | / | *L.monocytogenes* | + | - | - | - | - | - | ND | ND | 1 | c |
| **4376** | **Pastry** | *L. monocytogenes* Ad1195 / *L. innocua* Ad644 | 0,8 / 1,4 | *L. monocytogenes* / *L. innocua* | + | - | - | - | - | - | ND | ND | 1 | c |
| **5023** | **Tortilla** | *L. monocytogenes* Ad1757 | 2,2 | *L. monocytogenes* | + | - | - | - | - | - | ND | ND | 1 | c |
| **4380** | **Tortilla with onions** | *L. monocytogenes* Ad1195 / *L. innocua* Ad644 | 0,8 / 1,4 | *L. monocytogenes* / *L. innocua* | + | - | - | - | - | - | ND | ND | 1 | c |
| 364 | Frozen ground beef | / | / | *L.monocytogenes* | + | - | - | + | - | - | ND | ND | 2 | a |
| 2097 | Cockerel skewer | / | / | *L.monocytogenes* | + | - | + | + | - | + | ND | PA | 2 | b |
| 86 | Sausages with herbs | / | / | *L.monocytogenes/ L.welshimeri* | + | - | - | - | - | - | ND | ND | 2 | c |
| 536 | Sausages with herbs | / | / | *L.monocytogenes/ L.welshimeri* | + | - | - | - | - | - | ND | ND | 2 | c |
| **619** | **Delicatessen** | *Listeria monocytogenes* Ad645 | 12 | *L.monocytogenes* | + | - | - | - | - | - | ND | ND | 2 | c |
| 478 | Raw cow milk | / | / | *L.monocytogenes* | + | - | - | - | - | - | ND | ND | 3 | a |
| 1897 | Raw cow milk | / | / | *L. monocytogenes* | + | - | - | - | - | - | ND | ND | 3 | a |
| 1901 | Raw ewe milk | / | / | *L. monocytogenes* | + | - | - | - | - | - | ND | ND | 3 | a |
| 1903 | Raw ewe milk | / | / | *L. monocytogenes* | + | i/-*/-** | - | - | - | - | ND | ND | 3 | a |
| 2263 | Raw goat milk | / | / | *L. monocytogenes* | + | - | - | - | - | - | ND | ND | 3 | a |
| **2341** | **Raw cow milk** | Cross contamination with raw milk cheese (5g +25g) | / | *L. monocytogenes* | + | + (30,3) | -/30,0 /30,0 | + | + | - | PA | PPND | 3 | a |
| **2342** | **Raw cow milk** | Cross contamination with raw milk cheese (5g +25g) | / | *L. monocytogenes* | + | -/+(38,8)/-/+(38,2) | -/- /- | + | - | - | ND | ND | 3 | a |
| 1443 | Raw cow milk cheese | / | / | *L.monocytogenes* | + | - | + | + | - | + | ND | PA | 3 | b |
| 1643 | Raw fresh cream | / | / | *L.monocytogenes* | + | i/- | - | - | - | - | ND | ND | 3 | b |
| **1833** | **Raw cow milk cheese** | *L.monocytogenes* Ad470 | 3,0 | *L.monocytogenes* | + | - | - | - | - | - | ND | ND | 3 | b |
| **1849** | **Milk powder** | *L.monocytogenes* Ad621 | 6,6 | *L.monocytogenes* | + | + | - | + | + | - | PA | ND | 3 | c |
| **5029** | **Rice pudding** | *L. monocytogenes* 17501 | 1,2 | *L. monocytogenes* | + | - | - | - | - | - | ND | ND | 3 | c |
| 170 | Delicatessen | / | / | *L.monocytogenes* | + | - | - | - | - | - | ND | ND | 4 | a |
| **901** | **Brussels sprouts** | *L.monocytogenes* 1011/1410 | 2 | *L.monocytogenes* | + | - | - | - | - | - | ND | ND | 4 | a |
| **905** | **Mash** | *L.monocytogenes* BR32 | 3,4 | *L.monocytogenes* | + | + | - | + | + | - | PA | ND | 4 | a |
| **909** | **Chinese cabbage** | *L.monocytogenes* BR32 | 3,4 | *L.monocytogenes* | + | - | + | + (72h) | - | + | ND | PA | 4 | a |
| **4476** | **Frozen vegetables mix** | *L. monocytogenes* Ad1303 | 1,5 | *L. monocytogenes* | + | -/+36,4/+39,7 | +31,6 | +(Fraser 1) | - | + | ND | PA | 4 | b |
| 211 | Salmon fillet | / | / | *L.monocytogenes* | + | - | - | - | - | - | ND | ND | 5 | a |
| 354 | Salmon | / | / | *L.monocytogenes* | + | - | - | - | - | - | ND | ND | 5 | a |
| 361 | Smoked salmon | / | / | *L.monocytogenes* | + | - | - | - | - | - | ND | ND | 5 | b |
| 2057 | Cooked mussels | / | / | *L.monocytogenes/L.innocua* | + | + | + | - | - | - | PPND | PPND | 5 | c |
| **4485** | Rinse water (Fish industry) | *L. monocytogenes* A00E008 | 1,0 | *L. monocytogenes* | + | - | - | - | - | - | ND | ND | 6 | a |
| **5030** | **Residues (vegetable ham)** | *L. monocytogenes* Ad2600 / *L. seeligeri* Ad651 | 1,6 / 1,4 | *L. monocytogenes* | + | - | - | - | - | - | ND | ND | 6 | c |

♦ Analyses performed according to the COFRAC accreditation

| Sample N° | Product (English name) | Artificial contaminations | | Reference method: ISO 11290-1♦ | | GeneDisc® *Listeria* DUO for the detection of *Listeria monocytogenes* Half Fraser broth 20 h ± 2 h at 37°C for raw milk 25 h ± 1 h for all other products | | | | | | | Category | Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PCR *Listeria monocytogenes* | | All confirmatory tests | Listeria monocytogenes | | | | | |
| | | Strain | Inoculation level CFU/sample | Identification | Result | Extraction A | Extraction B | | Final result PCR A | Final result PCR B | Agreement Ref/Alt PCR A | Agreement Ref/Alt PCR B | | |
| **5033** | **Floor residues (Seafood industry)** | *L. monocytogenes* A00E049 / *L. welshimeri* Ad1268 | 1,0 /0,6 | *L. monocytogenes* / *L. innocua* | + | - | - | - | **-** | **-** | **ND** | **ND** | 6 | c |
| **6084** | **Rinse water (vegetable sausage)** | *L. monocytogenes* A00E082 | 2,2 | *L. monocytogenes* | + | - | - | - | **-** | **-** | **ND** | **ND** | 6 | a |
| **6089** | **Process water (Fish Industry)** | *L. monocytogenes* Ad1679 | 2,2 | *L. monocytogenes* | + | - | - | - | **-** | **-** | **ND** | **ND** | 6 | a |
| **6878** | **Wipe (Sausage production)** | *L. monocytogenes* Ad1255 | 1,2 | *L. monocytogenes* | + | - | - | - | **-** | **-** | **ND** | **ND** | 6 | b |

## Table 7 - Positive deviations

| Sample N° | Product (English name) | Artificial contaminations | | Reference method ISO 11290-1 ♦ | GeneDisc® *Listeria* DUO for the detection of *Listeria monocytogenes* | | | | | | | Category | Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Half Fraser broth 20 h ± 2 h at 37°C for raw milk<br>25 h ± 1 h for all other products | | | | | | | | |
| | | | | | PCR *Listeria monocytogenes* | | All confirmatory tests | *Listeria monocytogenes* | | | | | |
| | | Strain | Inoculation level CFU/sample | | Extraction A | Extraction B | | Final result PCR A | Final result PCR B | Agreement Ref/Alt PCR A | Agreement Ref/Alt PCR B | | |
| **4391** | **Sandwich with ham and cheese** | *L. monocytogenes* Ad276 | 0,4 | - | +23,6 | +28,9 | + | + | + | PD | PD | 1 | a |
| **4393** | **Sandwich with ham and butter** | *L. monocytogenes* Ad276 | 0,4 | - | +31,0 | +31,4 | + | + | + | PD | PD | 1 | a |
| **4396** | **Sandwich with ham and cheddar** | *L. monocytogenes* Ad276 | 0,4 | - | +27,0 | +27,7 | + | + | + | PD | PD | 1 | a |
| 495 | Pie | / | / | - | + | + | + | + | + | PD | PD | 1 | b |
| 2135 | Brioche with sausage | / | / | - | - | + | + | - | + | NA | PD | 1 | b |
| **4399** | **Couscous** | *L. monocytogenes* Ad1206 | 0,6 | - | +24,7 | +21,2 | + | + | + | PD | PD | 1 | b |
| **4401** | **RTRH food** | *L. monocytogenes* Ad1206 | 0,6 | - | +29,0 | +25,1 | + | + | + | PD | PD | 1 | b |
| **4402** | **RTRH food** | *L. monocytogenes* Ad466 | 0,8 | - | +23,4 | +25,3 | + | + | + | PD | PD | 1 | b |
| **4403** | **RTRH food** | *L. monocytogenes* Ad1206 | 0,6 | - | +26,1 | +19,1 | + | + | + | PD | PD | 1 | b |
| 2132 | Preparation for pancakes | / | / | - | + | + | + | + | + | PD | PD | 1 | c |
| **4375** | **Pastry** | *L. monocytogenes* Ad1195 /<br>*L. innocua* Ad644 | 0,8 / 1,4 | - | +35,9 | +33,8 | + | + | + | PD | PD | 1 | c |
| **5026** | **Pastry** | *L. monocytogenes* Ad1757 | 2,2 | - | +23,2 | +26,2 | + | + | + | PD | PD | 1 | c |
| 173 | Raw pork meat | / | / | - | + | + | + | + | + | PD | PD | 2 | a |
| 497 | Delicatessen | / | / | - | + | + | + | + | + | PD | PD | 2 | a |
| 337 | Cooked turkey meat | / | / | - | + | + | + | + | + | PD | PD | 2 | b |
| 400 | Seasoned ground beef | / | / | - | + | + | + | + | + | PD | PD | 2 | b |
| 762 | Duck meat | / | / | - | + | + | - | + | + | PD | PD | 2 | b |
| 2093 | Smoked sliced bacon | / | / | - | + | + | + | + | + | PD | PD | 2 | c |
| 540 | Sausages with herbs | / | / | - | + | + | + | + | + | PD | PD | 2 | c |
| 479 | Raw cow milk | / | / | - | + | + | + | + | + | PD | PD | 3 | a |
| 485 | Raw cow milk | / | / | - | + | + | + | + | + | PD | PD | 3 | a |
| 1838 | Raw milk | / | / | - | + | - | + | + | - | PD | NA | 3 | a |
| 1947 | Raw milk | / | / | - | + | + | + | + | + | PD | PD | 3 | a |
| 1898 | Raw cow milk | / | / | - | + (38,3) | + (25,9) | + | + | + | PD | PD | 3 | a |
| 1911 | Raw cow milk | / | / | - | -/+ (38,7)/+ (37,2) /- | + (36,3) | + | - | + | NA | PD | 3 | a |
| 1943 | Raw milk cheese | / | / | - | + | - | + | + | - | PD | NA | 3 | b |
| 1944 | Cheese | / | / | - | + | + | + | + | + | PD | PD | 3 | b |
| **1836** | **Skimmed milk powder** | *L.monocytogenes* Ad612 | 5,2 | - | + | +(39,2) | + | + | + | PD | PD | 3 | c |
| **1847** | **Fermented milk** | *L.monocytogenes* Ad621 | 6,6 | - | + | - | + | + | - | PD | NA | 3 | c |
| **4473** | **Pasteurised** | *L. monocytogenes* Ad523 | 1,0 | - | +30,1 | +29,7 | + | + | + | PD | PD | 3 | c |
| 2029 | Frozen fries | / | / | - | + | + | + | + | + | PD | PD | 4 | b |
| **911** | **Frozen mushrooms** | *L.monocytogenes* Ad545 | 7,0 | - | + | + | + | + | + | PD | PD | 4 | b |
| **914** | **Frozen sliced links** | *L.monocytogenes* BR32 | 1,8 | - | + | + | + | + | + | PD | PD | 4 | b |
| **4475** | **Frozen vegetables mix** | *L. monocytogenes* Ad1493 | 0,6 | - | +19,6 | +29,4 | + | + | + | PD | PD | 4 | b |
| **4480** | **Frozen vegetables mix** | *L. monocytogenes* Ad1493 | 0,6 | - | +25,6 | +18,7 | + | + | + | PD | PD | 4 | b |
| **904** | **Sliced carrots** | *L.monocytogenes* 1011/1410 | 2 | - | + | + | + | + | + | PD | PD | 4 | c |
| 4321 | RTRH Purée | / | / | - | +30 | +31,6 | + | + | + | PD | PD | 4 | c |
| **4382** | **RTE vegetables mix** | *L. monocytogenes* Ad544 /<br>*L. innocua* Ad1673 | 1,2 / 1,4 | - | +31,4 | +22,4 | + | + | + | PD | PD | 4 | c |
| **4384** | **RTRH vegetables mix (for wok)** | *L. monocytogenes* Ad544 /<br>*L. innocua* Ad1673 | 1,2 / 1,4 | - | +32,4 | +27,4 | + | + | + | PD | PD | 4 | c |
| 654 | Salmon fillet | / | / | - | +(35,1) | + | + | + | + | PD | PD | 5 | a |
| 655 | Bass fillet | / | / | - | +(32,3) | + | + | + | + | PD | PD | 5 | a |
| 2172 | Smoked salmon pieces | / | / | - | - | + | + | - | + | NA | PD | 5 | b |

♦ Analyses performed according to the COFRAC accreditation

| Sample N° | Product (English name) | Artificial contaminations | | Reference method ISO 11290-1 ♦ | GeneDisc® *Listeria* DUO for the detection of *Listeria monocytogenes* Half Fraser broth 20 h ± 2 h at 37°C for raw milk 25 h ± 1 h for all other products | | | | | | | Category | Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | PCR *Listeria monocytogenes* | | All confirmatory tests | *Listeria monocytogenes* | | | | | |
| | | Strain | Inoculation level CFU/sample | | Extraction A | Extraction B | | Final result PCR A | Final result PCR B | Agreement Ref/Alt PCR A | Agreement Ref/Alt PCR B | | |
| **4482** | **Smoked mackerel** | *L. monocytogenes* Ad140 | 1,4 | - | +32,2 | +28,3 | + | **+** | **+** | **PD** | **PD** | 5 | b |
| 2063 | Seafood cocktail | / | / | - | + | + | + | **+** | **+** | **PD** | **PD** | 5 | c |
| 2069 | Cooked dab fillet | / | / | - | + | + | + | **+** | **+** | **PD** | **PD** | 5 | c |
| **6874** | **Swab (Fish industry)** | *L. monocytogenes* Ad548 | 1,6 | - | +25,4 | +24,5 | + | **+** | **+** | **PD** | **PD** | 6 | b |
| **6880** | **Sponge (Fish industry)** | *L. monocytogenes* Ad548 | 1,6 | - | +28,3 | +27,3 | + | **+** | **+** | **PD** | **PD** | 6 | b |
| **5036** | **Poultry residues (Poultry industry)** | *L. monocytogenes* A00E049 / *L. welshimeri* Ad1268 | 1,0 / 0,6 | - | +34,17 | +32,5 | + | **+** | **+** | **PD** | **PD** | 6 | c |
| **6470** | **Dusts (Dairy industry)** | *L. monocytogenes* Ad614 | 0,5 | - | +28,9 | +29,4 | + (Fraser 1) | **+** | **+** | **PD** | **PD** | 6 | c |

The analyses of discordant results according to the EN ISO 16140-2:2016 is the following (See Table 8):

**Table 8 - Analyses of discordant results**

| Extraction protool A | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Category | | | Type | N+ | ND** | PPND | PD | (ND+PPND)-PD | AL |
| 1 | Composite foods | a | RTE | 9 | 2 | 0 | 3 | | |
| | | b | RTRH | 10 | 1 | 0 | 5 | | |
| | | c | Pastries, egg products | 11 | 4 | 0 | 3 | | |
| | | | Total | 30 | 7 | 0 | 11 | -4 | 3 |
| 2 | Meat products | a | Raw | 15 | 1 | 0 | 2 | | |
| | | b | RTE, RTRH | 8 | 1 | 0 | 3 | | |
| | | c | Delicatessen | 14 | 3 | 0 | 2 | | |
| | | | Total | 37 | 5 | 0 | 7 | -2 | 3 |
| 3 | Dairy products | a | Raw milk | 30 | 6 | 0 | 5 | | |
| | | b | Raw milk cheese | 20 | 3 | 0 | 2 | | |
| | | c | Desserts, milk, powders, ice creams, pasteurised milk cheese | 10 | 1 | 0 | 3 | | |
| | | | Total | 60 | 10 | 0 | 10 | 0 | 3 |
| 4 | Vegetables | a | Fresh and frozen vegetables | 10 | 3 | 0 | 0 | | |
| | | b | Frozen vegetables | 12 | 1 | 0 | 5 | | |
| | | c | RTE, RTRH | 12 | 0 | 0 | 4 | | |
| | | | Total | 34 | 4 | 0 | 9 | -5 | 3 |
| 5 | Fishery products | a | Raw fish | 11 | 2 | 0 | 2 | | |
| | | b | Smoked and cured fish | 7 | 1 | 0 | 1 | | |
| | | c | RTE, RTRH | 12 | 0 | 1 | 2 | | |
| | | | Total | 30 | 3 | 1 | 5 | -1 | 3 |
| 6 | Environmental Samples | a | Process water | 11 | 3 | 0 | 0 | | |
| | | b | Sponges, swabs, | 9 | 1 | 0 | 2 | | |
| | | c | Dusts, residues | 22 | 2 | 0 | 2 | | |
| | | | Total | 42 | 6 | 0 | 4 | 2 | 3 |
| **All categories** | | | | **233** | **35** | **1** | **46** | **-10** | **7** |
| **Raw milk (specific protocol)** | | | | **30** | **6** | **0** | **5** | **1** | **3** |

** PPND not included

| Extraction protocol B | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Category | | Type | | N+ | ND** | PPND | PD | (ND+PPND)-PD | AL |
| 1 | Composite foods | a | RTE | 9 | 3 | 0 | 3 | | |
| | | b | RTRH | 11 | 2 | 0 | 6 | | |
| | | c | Pastries, egg products | 11 | 5 | 0 | 3 | | |
| | | | Total | 31 | 10 | 0 | 12 | -2 | 3 |
| 2 | Meat products | a | Raw | 15 | 1 | 0 | 2 | | |
| | | b | RTE, RTRH | 8 | 0 | 0 | 3 | | |
| | | c | Delicatessen | 14 | 3 | 0 | 2 | | |
| | | | Total | 37 | 4 | 0 | 7 | -3 | 3 |
| 3 | Dairy products | a | Raw milk | 30 | 6 | 1 | 5 | | |
| | | b | Raw milk cheese | 19 | 2 | 0 | 1 | | |
| | | c | Desserts, milk, powders, ice creams, pasteurised milk cheese | 9 | 2 | 0 | 2 | | |
| | | | Total | 58 | 10 | 1 | 8 | 3 | 3 |
| 4 | Vegetables | a | Fresh and frozen vegetables | 10 | 3 | 0 | 0 | | |
| | | b | Frozen vegetables | 12 | 0 | 0 | 5 | | |
| | | c | RTE, RTRH | 12 | 0 | 0 | 4 | | |
| | | | Total | 34 | 3 | 0 | 9 | -6 | 3 |
| 5 | Fishery products | a | Raw fish | 11 | 2 | 0 | 2 | | |
| | | b | Smoked and cured fish | 8 | 1 | 0 | 2 | | |
| | | c | RTE, RTRH | 12 | 0 | 1 | 2 | | |
| | | | Total | 31 | 3 | 1 | 6 | -2 | 3 |
| 6 | Environmental Samples | a | Process water | 11 | 3 | 0 | 0 | | |
| | | b | Sponges, swabs, | 9 | 1 | 0 | 2 | | |
| | | c | Dusts, residues | 22 | 2 | 0 | 2 | | |
| | | | Total | 42 | 6 | 0 | 4 | 2 | 3 |
| **All categories** | | | | **233** | **36** | **2** | **46** | **-8** | **7** |
| **Raw milk (specific protocol)** | | | | **30** | **6** | **1** | **5** | **2** | **3** |

** PPND not included

**The observed values for ((ND + PPND) - PD) meet the acceptability limit for each individual category and for all the combined categories for both extraction protocols (calculated values ≤ AL).**

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

347samples were tested again after storage for 72 h at 5°C ± 3°C.
The following changes were observed (See Table 9).

**Table 9 - Enrichment broth storage**

| Sample N° | Product | Before storage | | After storage (Protocol A) | Category | Type |
|---|---|---|---|---|---|---|
| | | Protocol A | Protocol B | | | |
| 1911 | Raw milk | NA | PD | PD | 3 | a |
| 2097 | Cockerel skewer | ND | PA | PA | 2 | b |
| 2135 | RTE | NA | PD | PD | 1 | b |
| 2172 | Smoked salmon | NA | PD | PD | 5 | b |
| 490 | Salami | NA | NA | PD | 2 | c |
| 619 | Delicatessen | ND | ND | PA | 2 | c |
| 909 | Chinese cubage | ND | PA | PA | 4 | a |
| 1443 | Raw milk cheese | ND | PA | PA | 3 | b |
| 1486 | Raw milk cheese | NA | NA | PD | 3 | b |
| 1843 | Fermented dairy product | NA | NA | PD | 3 | c |
| 1849 | Milk powder | PA | ND | PPND | 3 | c |
| 4476 | Frozen vegetable mix | ND | PA | PA | 4 | b |
| 1848 | Fermented milk | NA | NA | PD | 3 | c |
| 4324 | Potatoes | PA | PA | ND | 4 | c |

The analyses of discordant become (See Table 10).

**Table 10 - Analysis of discordant after storage 72 h at 5 ± 3°C**

| Category | | Type | | PD | ND** | PPND | (ND+PPND)-PD | AL |
|---|---|---|---|---|---|---|---|---|
| 1 | Composite foods | a | RTE | 3 | 2 | 0 | | |
| | | b | RTRH | 6 | 1 | 0 | | |
| | | c | Pastries, egg products | 3 | 4 | 0 | | |
| | | | Total | 12 | 7 | 0 | -5 | 3 |
| 2 | Meat products | a | Raw | 2 | 1 | 0 | | |
| | | b | RTE, RTRH | 3 | 0 | 0 | | |
| | | c | Delicatessen | 3 | 2 | 0 | | |
| | | | Total | 8 | 3 | 0 | -5 | 3 |
| 3 | Dairy products | a | Raw milk | 6 | 6 | 0 | | |
| | | b | Raw milk cheese | 3 | 2 | 0 | | |
| | | c | Desserts, milk, powders, ice creams, pasteurised milk cheese | 5 | 1 | 1 | | |
| | | | Total | 14 | 9 | 1 | -4 | 3 |
| 4 | Vegetables | a | Fresh and frozen vegetables | 0 | 2 | 0 | | |
| | | b | Frozen vegetables | 5 | 0 | 0 | | |
| | | c | RTE, RTRH | 4 | 1 | 0 | | |
| | | | Total | 9 | 3 | 0 | -6 | 3 |
| 5 | Fishery products | a | Raw fish | 2 | 2 | 0 | | |
| | | b | Smoked and cured fish | 2 | 1 | 0 | | |
| | | c | RTE, RTRH | 2 | 0 | 0 | | |
| | | | Total | 6 | 3 | 0 | -3 | 3 |
| 6 | Environmental Samples | a | Process water | 0 | 3 | 0 | | |
| | | b | Sponges, swabs, | 2 | 1 | 0 | | |
| | | c | Dusts, residues | 2 | 2 | 0 | | |
| | | | Total | 4 | 6 | 0 | 2 | 4 |
| **All categories** | | | | **53** | **31** | **1** | **-21** | **7** |

** PPND not included

**The observed values for ((ND + PPND) - PD) meet the acceptability limit for each individual category and for all the combined categories for both extraction protocols (calculated values ≤ AL).**

### *3.1.1.8 Confirmation*

The positive results were confirmed by streaking 100 µl of enriched Half Fraser onto O&A and Palcam plates.

The typical colonies were confirmed by using the following tests: Gram, Catalase, API Listeria and GeneDisc ID.

The API Listeria and GeneDisc ID were tested from colonies isolated on O&A plates and if not present from colonies isolated on Palcam plates. O&A plates allowed to confirm 187 among the 198 samples which gave a positive PCR result.

For 6 samples, streaking onto Palcam plates was required to confirm the presence of *Listeria monocytogenes* in the enrichment broth.
The same identification was obtained using the API Listeria galleries and the GeneDisc ID.

#### *3.1.1.9 PCR inhibition*

895 DNA extracts prepared using the extraction protocol A and 548 using the extraction protocol B were tested. 6 inhibitions were observed on dairy products. The DNA extracts were tested again without any dilution and a negative PCR result was obtained. The percentage of inhibition represents 0.04 %.

### *3.1.2 Relative level of detection*

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

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

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

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

#### *3.1.2.1 Experimental design*

The relative level of detection is defined by analyzing different matrix/strain pairs. Four levels were tested; six replicates for each combination were tested for the initial validation study:

- Level 0,
- Level providing between 0 and 50 % positive results,
- Level providing between 50 and 75 % positive results,
- Level providing 100 % positive results.

For the renewal study, the following protocol was applied:

- A negative control: 5 samples,
- A low contamination level providing fractional recovery data, with 20 replicates,
- A high contamination level, with 5 replicates.

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

For the initial validation study and the renewal study, only the extraction protocol A was tested for the RLOD determination.

Seven (matrix/strain) pairs were analyzed by the reference method and by the alternative method (See Table 11).

**Table 11 - Defined (matrix/strain) pairs for the RLOD determination**

| Cate-gory | Matrix | Inoculated strain | Origin | Inoculation protocol | Study design |
|---|---|---|---|---|---|
| 1 | Deli salad | *Listeria monocytogenes* Ad494 | Piémontaise | Seeding 48 h at 3°C ±2°C | Unpaired |
| 2 | Rillettes | *Listeria monocytogenes* 1/2 V2/124 | Pork meat | Spiking | Unpaired |
| 3 | Raw milk | *Listeria monocytogenes* 4b 153 | Raw milk cheese | Spiking | Unpaired |
| | Fresh goat cheese | *Listeria monocytogenes* Ad664 | Raw milk cheese | Spiking | Unpaired |
| 4 | Frozen spinach | *Listeria monocytogenes* 1/2 10 11/1410 | Broccoli | Spiking | Unpaired |
| 5 | Smoked salmon | *Listeria monocytogenes* 1/2a BR32 | Fish environmental sample | Spiking | Unpaired |
| 6 | Cleaning water | *Listeria monocytogenes* Ad243 | Pork environmental samples | Spiking | Unpaired |

### *3.1.2.2 Calculation and interpretation of the RLOD*

The raw data are given in **Appendix 5**.
The RLOD calculations were performed using the Excel spreadsheet available at http://standards.iso.org/iso/16140 - RLOD (clause 5-1-4-2 Calculation and interpretation of RLOD) version 06.07.2015. The RLOD are given in Table 12.

**Table 12 – Presentation of RLOD before and after confirmation of the alternative method results**

| Name | RLOD | RLODL | RLODU | b=ln(RLOD) | sd(b) | z-Test statistic | p-value |
|---|---|---|---|---|---|---|---|
| Deli-salad/ *Listeria monocytogenes* Ad494 | 0,497 | 0,205 | 1,201 | -0,700 | 0,442 | 1,586 | 1,887 |
| Rillettes/ *Listeria monocytogenes* V2/124 | 1,000 | 0,425 | 2,353 | 0,000 | 0,428 | 0,000 | 1,000 |
| Raw milk/ *Listeria monocytogenes* 153 | 1,000 | 0,406 | 2,462 | 0,000 | 0,450 | 0,000 | 1,000 |
| Fresh goat cheese/ *Listeria monocytogenes* Ad664 | 0,613 | 0,263 | 1,428 | -0,489 | 0,423 | 1,158 | 1,753 |
| Frozen spinach/ *Listeria monocytogenes* 1011/1410 | 0,734 | 0,291 | 1,849 | -0,309 | 0,462 | 0,670 | 1,497 |
| Smoked salmon/ *Listeria monocytogenes* BR32 | 1,356 | 0,573 | 3,213 | 0,305 | 0,431 | 0,707 | 0,480 |
| Cleaning water/ *Listeria monocytogenes* Ad243 | 0,855 | 0,334 | 2,190 | -0,157 | 0,470 | 0,334 | 1,261 |
| **Combined** | **0,829** | **0,591** | **1,164** | **-0,187** | **0,170** | **1,104** | **1,730** |

**The RLOD meet the Acceptability Limit fixed at 2.5 for each individual matrix/strain pair and for all the combined matrices (observed values < AL).**

The $LOD_{50}$ calculations according to Spearman-Kärber test are given in Table 13.

**Table 13 – $LOD_{50}$ results**

| (Strain / matrix) pair | Level of detection at 50 % (CFU / 25 g or 25 ml) according to Spearman-Kärber test[1] | |
|---|---|---|
| | Reference method | Alternative method |
| Deli salad / *L. monocytogenes* Ad494 | 0.4 [0.2; 0.8] | 0.2 [0.1; 0.3] |
| Rillettes / *L. monocytogenes 1*/2 V2/124 | 0.4 [0.1; 1.3] | 0.4 [0.2; 1.2] |
| Raw milk / *L. monocytogenes* 153 | 0.7 [0.2; 1.8] | 0.7 [0.2 ; 2.0] |
| Fresh goat cheese / *L. monocytogenes* Ad664 | 0.7 [0.2; 2.1] | 0.1 [0.1;0.3] |
| Smoked salmon / *L. monocytogenes* BR32 | 0.4 [0.1; 1.3] | 0.3 [0.1; 1.3] |
| Frozen spinach / *L. monocytogenes* 11/410 | 0.6 [0.2; 1.7] | 0.3 [0.1; 1.0] |
| Cleaning water /*L. monocytogenes* Ad243 | 0.6 [0.2; 1.8] | 0.5 [0.2; 1.5] |

**The $LOD_{50}$ varies from 0.4 to 0.7 CFU/test portion for the reference method and from 0.1 to 0.7 CFU/test portion for the alternative method.**

[1] *"Hitchins A. Proposed Use of a 50 % Limit of Detection Value in Defining Uncertainty Limits in the Validation of Presence-Absence Microbial Detection Methods, Draft 10th December, 2003".*

### 3.1.3 Inclusivity / exclusivity

*The inclusivity is the ability of the alternative method to detect the target analyte from a wide range of strains. The exclusivity is the lack of interference from a relevant range of non-target strains of the alternative method.*

#### 3.1.3.1 Test protocols

❒ **Inclusivity**

50 *Listeria monocytogenes* strains were tested. Cultures were performed in BHI medium at 37°C for 18 h. Dilutions were done in Half Fraser broth in order to inoculate between 10 to 100 cells/225 ml Half Fraser broth. The alternative method protocol was then performed using the extraction protocol A (manual extraction). The confirmation protocols were also carried out (streaking onto O&A and Palcam plates, identification of the colonies using the GeneDisc ID).

❒ **Exclusivity**

60 non-target strains were tested: 30 *Listeria spp* strains (different from *Listeria monocytogenes*) and 30 non-Listeria strains. Cultures were performed in BHI, incubated at 37°C for 24 h. Dilutions were done in order to inoculate between 10 to 100 cells/225 ml in order to inoculate $10^5$ cell/ml BPW. The alternative method protocol was then performed.

#### 3.1.3.2 Results

Raw data are given in **Appendix 6**.

❒ **Inclusivity**

The 50 *Listeria monocytogenes* strains gave a positive PCR test. All the strains were correctly identified using the GeneDisc ID.

❒ **Exclusivity**

No cross reaction was observed with the 77 non-target strains tested.

### 3.1.4 Practicability

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

| | | | |
|---|---|---|---|
| ***Storage conditions, shelf-life and modalities of utilisation after first use*** | Store the GeneDisc plates at 5°C ± 3°C. The expiration date is provided on the package.<br>All the reagents needed for a GeneDisc are used for analysis remaining GeneDisc are stored at 5°C ± 3°C.<br>The mineral oil is stored at room temperature. | | |
| ***Time to result*** | Steps | **Reference method** | **Alternative method** |
| | **Negative samples** | | |
| | Analysis | Day 0 | Day 0 |
| | Enrichment step | Day 1 - Day 2 | Day 1 |
| | Extraction. PCR result | | Day 1 |
| | Selective agar plates reading (O&A and Palcam) | Day 2 - Day 4 | |
| | **Presumptive positive or positive results** | | |
| | Analysis | Day 0 | Day 0 |
| | Enrichment step | Day 1 - Day 2 | Day 1 |
| | Extraction: PCR result | | Day 1 |
| | Selective agar plate reading (O&A and Palcam) | Day 2 - Day 4 | |
| | GeneDisc confirmatory tests (O&A or Palcam) | | Day 2 |
| | Genus confirmation | Day 3 - Day 5 | |
| | Species confirmation (using biochemical gallery) | Day 4 - Day 6 | |
| | - For negative samples, 4 days are required for the reference method while negative results are obtained in 24 h with the GeneDisc Listeria DUO method.<br>- When positive or presumptive not confirmed colonies are observed on plates for the reference method, the GeneDisc Listeria DUO method allows saving 5 days. In the case of positive samples, the result is obtained with the GeneDisc Listeria DUO 2 to 4 days earlier than with the reference method. | | |
| ***Common step with the reference method*** | No common step | | |

The negative results are available in one day and the positive results in two days with the alternative method.

## 3.2 Inter-laboratory study

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

### *3.2.1 Study organisation*

The inter-laboratory study was carried out in June 2010. Pasteurized cheese samples (31 % fat, 1.4 % NaCl) were contaminated by *Listeria monocytogenes* 153 (isolated from raw milk cheese).

13 laboratories were involved in the study.

Samples were inoculated individually. Each Lab received:

- 24 codified samples to analyse with the reference method,
- 24 codified samples to analyse with the alternative method,
- 1 sample for the aerobic mesophilic flora enumeration,
- 1 flask with a temperature probe.

The analyses started on Wednesday 2 June 2010.

### *3.2.2 Experimental parameters controls*

#### *3.2.2.1 Strain stability and background microflora stability*

In order to detect *Listeria* spp., the EN ISO 11290-1 method was performed on five samples (25 g) before the inoculation. All the results were negative.

Sample stability was checked by inoculating the matrix at 24 CFU/g and 1 000 CFU/g. Samples were stored at 2 - 8°C and analyzed at Day 0, Day 1 and Day 2; the results are provided below (See table 14).

**Table 14 - Sample stability**

| | Inoculation levels | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 25 cells/25 g | | | 1 000 cells/25 g | | | 5 cells/25 g | | |
| | Enumeration (CFU/25 g) | | | | | | Detection | | |
| | Sample 1 | Sample 2 | Sample 3 | Sample 1 | Sample 2 | Sample 3 | Sample 1 | Sample 2 | Sample 3 |
| Day 0 | 25 | 5 | 15 | 750 | 625 | 1 250 | + | + | + |
| Day 1 | 10 | 5 | 5 | 375 | 875 | 1 250 | + | + | + |
| Day 2 | < 5 | < 5 | < 5 | 538 | 413 | 588 | + | + | + |

The number of *Listeria monocytogenes* decreased during storage at 5°C ± 3°C.

### *3.2.2.2 Contamination levels*

The contamination levels and the sample codification were the following (see Table 15).

**Table 15 - Contamination levels**

| Level | Samples | Theoretical target level (b/25 g) | True level (b/25 g sample) | Low limit / 25 g sample | High limit / 25 g sample |
|---|---|---|---|---|---|
| Level 0 | 3; 8; 9; 12; 15; 18; 20; 21 | 0 | / | / | / |
| Low level | 1; 4; 7;10; 11;13; 17; 24 | 5 | 7.2 | 6.3 | 12.6 |
| High level | 2; 5; 6; 14; 16; 19; 22; 23 | 25 | 36 | 31.2 | 42.0 |

### *3.2.2.3 Logistic conditions*

Temperature conditions are given in Table 16.

**Table 16 - Sample temperatures at receipt**

| Laboratories | Temperature measured by the temperature probe (°C) | Temperature measured at receipt (°C) | Receipt date and time | Analysis date |
|---|---|---|---|---|
| A | 4.0 | 6.4 | 01/06/10 – 08h00 | Day 2 |
| B | 3.0 | 3.5 | 01/06/10 – 10h40 | **Day 1** |
| C | 2.5 | 3.5 | 01/06/10 – 09h50 | Day 2 |
| D | 4.0 | 4.5 | 01/06/10 – 09h20 | Day 2 |
| E | 2.5 | 4.4 | 01/06/10 – 10h00 | Day 2 |
| F | 3.0 | 5.2 | 01/06/10 – 10h50 | Day 2 |
| G | 2.5 | 6.5 | 01/06/10 -12 h 15 | Day 2 |
| H | 1.5 | 7.1 | 01/06/10 – 11h30 | Day 2 |
| I | 2.5 | 5.0 | 01/06/10 – 13h00 | Day 2 |
| J | 3.0 | 5.2 | 01/06/10 – 10h30 | Day 2 |
| K | 3.5 | 2.5 | 01/06/10 – 11h45 | Day 2 |
| L | 3.0 | 4.7 | 01/06/10 – 11h20 | Day 2 |
| M | 2.5 | 4.1 | 01/06/10 – 11h40 | Day 2 |

No problem was encountered during the transport or at receipt for the 13 collaborators. All the samples were delivered on time (day 1) and in appropriate conditions. Temperatures during shipment and at receipt were all correct.

### *3.2.3 Results analysis*

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

#### *3.2.3.1 Expert laboratory results*

The results obtained by the expert laboratory are given in Table 17.

**Table 17 – Results obtained by the expert Lab.**

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

### *3.2.3.2 Results observed by the collaborative laboratories*

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

Depending on the Lab results, the enumeration levels varied from 4.3 $10^4$ to > 3.0 $10^7$ CFU/g.

#### ***Listeria monocytogenes detection***

13 collaborators participated to the study. The results obtained are provided in Table 18 (reference method) and Table 19 (alternative method).

**Table 18 - Positive results by the reference method (ALL the collaborators)**

| Collaborators | Contamination level | | |
|---|---|---|---|
| | L0 | L1 | L2 |
| A | 0 | 8 | 8 |
| B | 0 | 8 | 8 |
| C | 0 | 8 | 8 |
| D | 0 | 8 | 8 |
| E | 0 | 8 | 8 |
| F | 0 | 8 | 8 |
| G | 0 | 8 | 8 |
| H | 0 | 8 | 8 |
| I | 0 | 8 | 8 |
| J | 0 | 8 | 8 |
| K | 0 | 8 | 8 |
| L | 0 | 8 | 8 |
| M | 0 | 8 | 8 |
| **All collaborators** | **0** | **104** | **104** |

**Table 19 - Positive results (before and after confirmation) by the alternative method (ALL the collaborators)**

| Collaborators | Contamination level | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | L0 | | | L1 | | | L2 | | |
| | PCR result | Confirmation result | Final result | PCR result | Confirmation result | Final result | PCR result | Confirmation result | Final result |
| A | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| B | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| C | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| D | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| E | 1 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| F | 1 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| G | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| H | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| I | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| J | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| K | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| L | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| M | 2 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| **All collaborators** | **4** | **0** | **0** | **104** | **104** | **104** | **104** | **104** | **104** |

Lab B realized the analyses at Day 1 instead of Day 2 as required in the instructions. This lab was excluded for the interpretation.

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

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

The results obtained with the 11 labs kept for interpretation are presented in Table 20 (reference method) and Table 21 (alternative method).

**Table 20 - Positive results by the reference method (Without Labs B and M)**

| Collaborators | Contamination level | | |
|---|---|---|---|
| | L0 | L1 | L2 |
| A | 0 | 8 | 8 |
| C | 0 | 8 | 8 |
| D | 0 | 8 | 8 |
| E | 0 | 8 | 8 |
| F | 0 | 8 | 8 |
| G | 0 | 8 | 8 |
| H | 0 | 8 | 8 |
| I | 0 | 8 | 8 |
| J | 0 | 8 | 8 |
| K | 0 | 8 | 8 |
| L | 0 | 8 | 8 |
| **All collaborators** | **0** | **88** | **88** |

**Table 21 - Positive results (before and after confirmation) by the alternative method (Without Labs B and M)**

| Collaborators | Contamination level | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | L0 | | | L1 | | | L2 | | |
| | PCR result | Confirmation result | Final result | PCR result | Confirmation result | Final result | PCR result | Confirmation result | Final result |
| A | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| C | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| D | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| E | 1 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| F | 1 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| G | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| H | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| I | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| J | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| K | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| L | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| **All collaborators** | **2** | **0** | **0** | **88** | **88** | **88** | **88** | **88** | **88** |

### 3.2.4 Calculation and interpretation

#### 3.2.4.1 Calculation of the specificity percentage (SP)

The percentage specificities (SP) of the reference method and of the alternative method, using the data after confirmation, based on the results of level L0 are the following (See Table 22).

**Table 22 - Percentage specificity**

| | | |
|---|---|---|
| **Specificity for the reference method** | $SP_{ref} = \left(1 - \left(\frac{P_0}{N\_}\right)\right) x\ 100\ \% =$ | 100 % |
| **Specificity for the alternative method** | $SP_{alt} = \left(1 - \left(\frac{CP_0}{N\_}\right)\right) x\ 100\ \% =$ | 100 % |

N: number of all L0 tests
$P_0$ = total number of false-positive results obtained with the blank samples before confirmation
$CP_0$ = total number of false-positive results obtained with the blank samples

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

All the inoculated samples gave positive results by both methods (L1 and L2). The two inoculation levels were retained for calculation.

A summary of the results of the collaborators retained for interpretation and obtained with the reference and the alternative methods for Level 1 and Level 2 is provided in Table 23.

**Table 23 - Summary of the obtained results with the reference method and the alternative method for Level 1 and Level 2**

| Level | Response | Reference method positive (R+) | Reference method negative (R-) |
|---|---|---|---|
| 1 | Alternative method positive (A+) | Positive agreement (A+/R+)<br>**PA = 88** | Positive deviation (R-/A+)<br>**PD = 0** |
| | Alternative method negative (A-) | Negative deviation (A-/R+)<br>**ND = 0 (PPND = 0)** | Negative agreement (A-/R-)<br>**NA = 0 (PPNA = 0)** |
| 2 | Alternative method positive (A+) | Positive agreement (A+/R+)<br>**PA = 88** | Positive deviation (R-/A+)<br>**PD = 0** |
| | Alternative method negative (A-) | Negative deviation (A-/R+)<br>**ND = 0 (PPND = 0)** | Negative agreement (A-/R-)<br>**NA = 0 (PPNA = 0)** |

Based on the data summarized in Table 23, the values of sensitivity of the alternative and reference methods, as well as the relative trueness and false positive ratio for the alternative method taking account the confirmations, are the following (See Table 24).

**Table 24 - Sensitivity, relative trueness and false positive ratio percentages**

| | | Level 1 | Level 2 |
|---|---|---|---|
| Sensitivity for the alternative method: | $SE_{alt} = \frac{(PA+PD)}{(PA+PD+ND)} x\ 100\% =$ | 100 % | 100 % |
| Sensitivity for the reference method: | $SE_{ref} = \frac{(PA+ND)}{(PA+PD+ND)} x\ 100\% =$ | 100 % | 100 % |
| Relative trueness | $RT = \frac{(PA+NA)}{N} x\ 100\% =$ | 100 % | 100 % |
| False positive ratio for the alternative method | $FPR = \frac{FP}{NA} x\ 100\% =$ | / | / |

For an **unpaired study design**, the difference between (ND – PD) is calculated for the level(s) where fractional recovery is obtained (so $L_1$ and possibly $L_2$). The observed value found for (ND – PD) shall not be higher than the AL. The AL is defined as [$(ND - PD)_{max}$] and calculated per level where fractional recovery is obtained as described below using the following three parameters:

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

where

$P_x$ = number of samples with a positive result obtained with the reference method at level $x$ ($L_1$ or $L_2$) for all the collaborators

$N_x$ = number of samples tested at level $x$ ($L_1$ or $L_2$) with the reference method by all the collaborators

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

where

$CP_x$ = number of samples with a confirmed positive result obtained with the alternative method at level $x$ ($L_1$ or $L_2$) for all the collaborators;

$N_x$ = number of samples tested at level $x$ ($L_1$ or $L_2$) with the alternative method by all the collaborators.

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

where

$N_x$ = number of samples tested for level $x$ ($L_1$ or $L_2$) with the reference method by all the collaborators.

The AL is not met when the observed value is higher than the AL. When the AL is not met, investigations should be made (e.g. root cause analysis) in order to provide an explanation of the observed results. Based on the AL and the additional information, it is decided whether the alternative method is regarded as not fit for purpose. The reasons for acceptance of the alternative method when the AL is not met shall be stated in the study report.

In this study, fractional recovery was observed at Level 1 and Level 2. The calculations are the following, according to the EN ISO 16140-2:2016 (See Table 25.

**Table 25 - Calculations**

| | Level 1 | Level 2 |
|---|---|---|
| $N_X$ | 96 | 88 |
| $(p+)_{ref}$ | 1.0 | 1.0 |
| $(p+)_{alt}$ | 1.0 | 1.0 |
| AL = (ND - PD) max | 0.00 | 0.00 |
| ND - PD | 0 | 0 |
| Conclusion | ND - PD = AL | |

**The ISO 16140-2 (2016) requirements are fulfilled as (ND - PD) is equal to the AL.**

#### *3.2.4.3 Evaluation of the RLOD between laboratories*

The RLOD was calculated using the EN ISO 16140-2:2016 Excel spreadsheet available at https://standards.iso.org/iso/16140/-5/ed-1/en/RLOD_inter-lab-study_16140-2_AnnexF_ver1_28-06-2017.xls.

The calculation is not possible as all the inoculated samples gave positive results by the reference and the alternative methods.

## 3.3 General conclusion

The **method comparison study conclusions** are:

- ☒ In the sensitivity study, 6 categories were tested: 5 food categories and environmental samples. The protocol of the alternative method shows 46 positive deviations (PD) and 36 or 38 negative deviations (ND) for the overall categories depending on the extraction protocols applied (A or B).
  The observed values for ((ND + PPND) - PD) meet the acceptability limit for each individual category and for all the combined categories and for both extraction protocols (calculated values ≤ AL).

- ☒ The RLOD meet the Acceptability Limit for each individual matrix/strain pair and for all the combined matrices (observed values < AL).

- ☒ The alternative method gave satisfying inclusivity and exclusivity results.

☒ It is possible to store the enrichment broth for 72 h at 5 ± 3°C.

☒ The negative results are available in one day and the positive results in two days with the alternative method.

☒ The **GeneDisc Plate *Listeria monocytogenes* and the GeneDisc Plate *Listeria* DUO** fulfil all the EN ISO 16140-2:2016 and AFNOR technical rules.

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

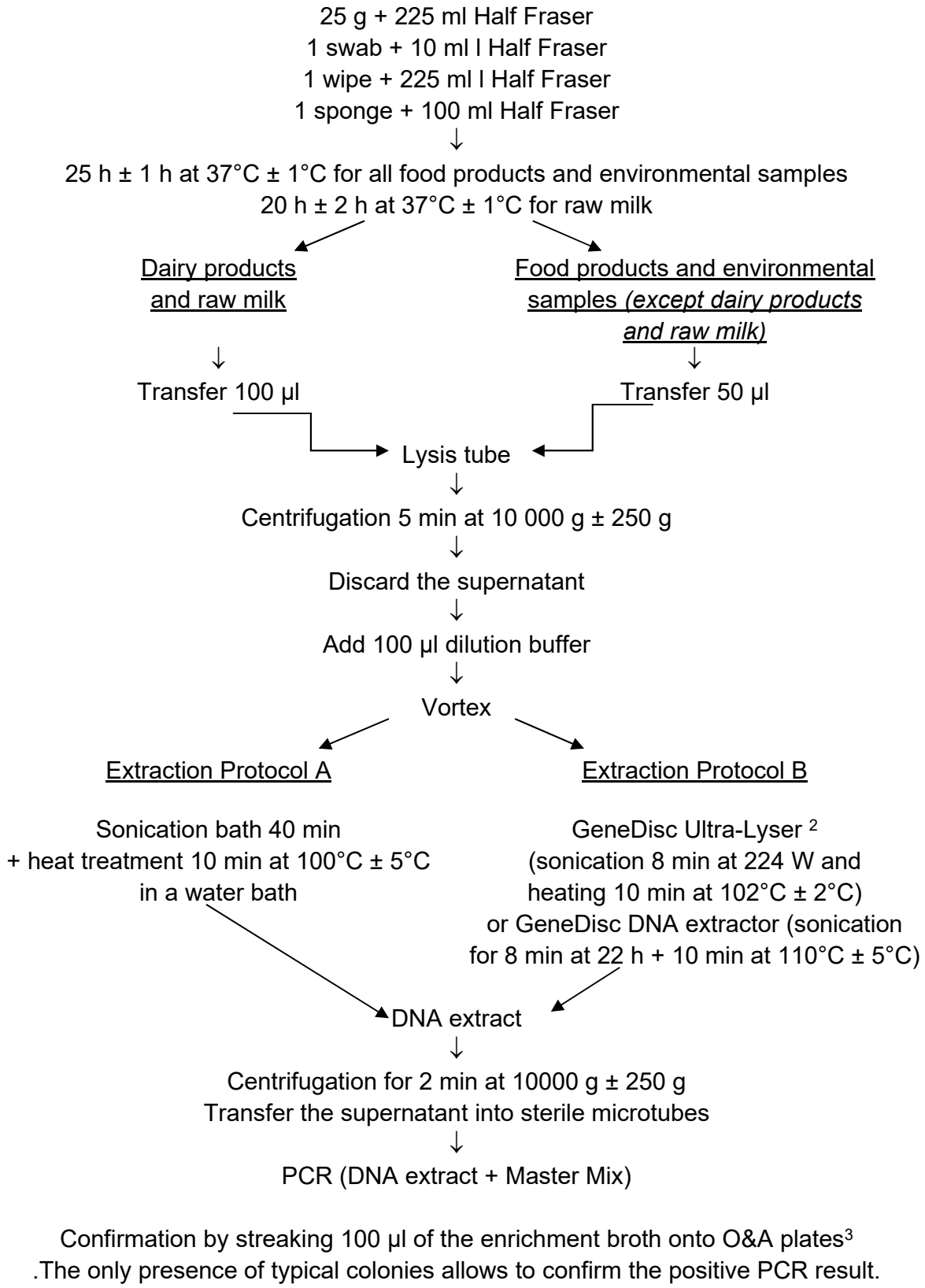
☒ The data and interpretations comply with the EN ISO 16140-2:2016 requirements. **The GeneDisc Plate *Listeria monocytogenes* and the GeneDisc Plate *Listeria* DUO are considered equivalent to the ISO standard.**

Quimper, 18 July 2022

Maryse RANNOU
Project Manager
Validation of Alternative methods
*Food Safety & Quality*

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

## Appendix 1 - Flow diagram of the alternative method: GeneDisc Plate *Listeria* DUO, Genedisc Plate *Listeria monocytogenes*




Confirmation by streaking 100 µl of the enrichment broth onto O&A plates[3]
.The only presence of typical colonies allows to confirm the positive PCR result.

---

[2] Only the GeneDisc Ultra-lyser was tested during the validation study

[3] During the validation study, O&A and Palcam plates were tested, and the typical colonies were confirmed by the tests described in the reference method, API galleries and GeneDisc *Listeria* ID

## Appendix 2 - Flow diagrams of the reference method: ISO 11290-1 (May 2017): Microbiology of the food chain - Horizontal method for the detection and enumeration of *Listeria monocytogenes* and of *Listeria* spp.- Part 1: detection method

Test portion (25 g or 25 ml)
1 swab + 10 ml Half Fraser broth[4]
1 sponge + 100 ml Half Fraser broth
1 wipe + 225 ml Half Fraser broth

↓

Primary enrichment medium (Half Fraser broth) (225 g or 225 ml)

↓

Incubation at 30°C ± 24 h to 26 h

0.1 ml of culture
in 10 ml of secondary
enrichment medium (Fraser broth)

↓

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

Plating out on Agar *Listeria* according to
Ottaviani and Agosti and second selective medium

↓

Incubation of Agar *Listeria* according to
Ottaviani and Agosti for 24 h ± 2 h and an additional 24 h ± 2 h at 37°C ± 1°C
Incubation of second selective medium according to the chosen medium
as specified by the manufacturer

↓

Confirmation

| Target | Gram | Catalase | Beta hemolysis | CAMP test | Carbohydrates |
|---|---|---|---|---|---|
| *Listeria monocytogenes* | x | Optional | x | Optional | x |

[4] For sampling after cleaning process pre-moisten
- 1 swab + 1 ml broth universal neutralizing (+ 9 ml Half-Fraser)
- 1 sponge + 10 ml broth universal neutralizing (+ 90 ml Half-Fraser)
- 1 wipe + BPW + 10 % neutralizing agent (+ 225 ml Half-Fraser)

## Appendix 3 - Artificial contaminations

| Year of analysis | Sample N° | Product (French name) | Product (English name) | Artificial contaminations | | | | | Global result A | Global result B | Category | Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Strain | Origin | Injury applied | Injury measure-ment | Inoculation level CFU/sample | | | | |
| 2014 | **2338** | **Lait cru de vache** | **Raw cow milk** | Cross contamination with raw milk cheese (5g +25g) | | | | | + | + | 3 | a |
| 2014 | **2339** | **Lait cru de vache** | **Raw cow milk** | Cross contamination with raw milk cheese (5g +25g) | | | | | - | - | 3 | a |
| 2014 | **2340** | **Lait cru de vache** | **Raw cow milk** | Cross contamination with raw milk cheese (5g +25g) | | | | | - | - | 3 | a |
| 2014 | **2341** | **Lait cru de vache** | **Raw cow milk** | Cross contamination with raw milk cheese (5g +25g) | | | | | + | + | 3 | a |
| 2014 | **2342** | **Lait cru de vache** | **Raw cow milk** | Cross contamination with raw milk cheese (5g +25g) | | | | | + | + | 3 | a |
| 2010 | **617** | **Jarret arrière de porc** | **Pork meat** | *L. monocytogenes* Ad645 | Pork meat | 18 days-TS+10%NaCl | 0,62 | 15-25-18-18-10(17,2) | + | + | 2 | a |
| 2010 | **619** | **Andouille** | **Delicatessen** | *L. monocytogenes* Ad645 | Pork meat | 18 days -20°C | 0,79 | 14-10-13-11-12(12) | + | + | 2 | c |
| 2010 | **620** | **Tripes à la Bretonne** | **Delicatessen** | *L. monocytogenes* Ad645 | Pork meat | 18 days -20°C | 0,79 | 14-10-13-11-12(12) | + | + | 2 | c |
| 2010 | **901** | **Choux de Bruxelles** | **Brussels sprouts** | *L. monocytogenes* 1011/1410 | Frozen broccolis | HT 56°C 15min / 3 days -20°C | 0,51 | 3-2-1-1-3(2) | + | + | 4 | a |
| 2010 | **902** | **Laitue Romaine** | **Lettuce** | *L. monocytogenes* 1011/1410 | Frozen broccolis | HT 56°C 15min / 3 days -20°C | 0,51 | 3-2-1-1-3(2) | + | + | 4 | a |
| 2010 | **903** | **Légumes vapeur** | **Cooked vegetables** | *L. monocytogenes* 1011/1410 | Frozen broccolis | HT 56°C 15min / 3 days -20°C | 0,51 | 3-2-1-1-3(2) | + | + | 4 | c |
| 2010 | **904** | **Julienne de carottes** | **Sliced carrots** | *L. monocytogenes* 1011/1410 | Frozen broccolis | HT 56°C 15min / 3 days -20°C | 0,51 | 3-2-1-1-3(2) | + | + | 4 | c |
| 2010 | **905** | **Mâche** | **Mash** | *L. monocytogenes* BR32 | Environmental sample | HT 56°C 15min / 3 days -20°C | 0,86 | 1-1-2-2-11(3,4) | + | + | 4 | a |
| 2010 | **906** | **Endives** | **Endives** | *L. monocytogenes* BR32 | Environmental sample | HT 56°C 15min / 3 days -20°C | 0,86 | 1-1-2-2-11(3,4) | + | + | 4 | a |
| 2010 | **907** | **Chou rouge** | **Red cabbage** | *L. monocytogenes* Ad545 | Deli salad | -20°C 5 days /HT 56°C 10min | 0,75 | 7-9-8-6-5(7,0) | + | + | 4 | a |
| 2010 | **908** | **Brocolis** | **Broccolis** | *L. monocytogenes* BR32 | Environmental sample | HT 56°C 15min / 3 days -20°C | 0,86 | 1-1-2-2-11(3,4) | + | + | 4 | a |
| 2010 | **909** | **Chou Chinois** | **Chinese cabbage** | *L. monocytogenes* BR32 | Environmental sample | HT 56°C 15min / 3 days -20°C | 0,86 | 1-1-2-2-11(3,4) | + | + | 4 | a |
| 2010 | **910** | **Crudités mélangées** | **Raw vegetables mix** | *L. monocytogenes* Ad545 | Deli salad | -20°C 5 days /HT 56°C 10min | 0,75 | 7-9-8-6-5(7,0) | + | + | 1 | a |
| 2010 | **911** | **Champignons de Paris surgelés** | **Frozen mushrooms** | *L. monocytogenes* Ad545 | Deli salad | -20°C 5 days /HT 56°C 10min | 0,75 | 7-9-8-6-5(7,0) | + | + | 4 | b |
| 2010 | **912** | **Mélange de légumes pour ratatouille surgelés** | **Vegetables mix** | *L. monocytogenes* 1011/1410 | Frozen broccolis | -20°C 5 days /HT 56°C 10min | 0,47 | 8-5-4-6-9(6,4) | + | + | 4 | b |
| 2010 | **913** | **Poêlée de légumes surgelés** | **Frozen vegetables mix** | *L. monocytogenes* 1011/1410 | Frozen broccolis | -20°C 5 days /HT 56°C 10min | 0,47 | 8-5-4-6-9(6,4) | + | + | 4 | b |
| 2010 | **914** | **Poireaux émincés surgelés** | **Frozen sliced links** | *L. monocytogenes* BR32 | Environmental sample | -20°C 5 days /HT 56°C 10min | 1,04 | 1-4-2-1-1(1,8) | + | + | 4 | b |
| 2010 | **915** | **Choux-fleurs surgelés** | **Frozen cauliflower** | *L. monocytogenes* BR32 | Environmental sample | -20°C 5 days /HT 56°C 10min | 1,04 | 1-4-2-1-1(1,8) | + | + | 4 | b |
| 2010 | **916** | **Mélange de légumes surgelés** | **Frozen vegetables mix** | *L. monocytogenes* 1011/1410 | Frozen broccolis | -20°C 5 days /HT 56°C 10min | 0,47 | 8-5-4-6-9(6,4) | + | + | 4 | b |
| 2010 | **917** | **Petits pois aux lardons surgelés** | **Frozen peas and sliced bacon** | *L. monocytogenes* 1011/1410 | Frozen broccolis | -20°C 5 days /HT 56°C 10min | 0,47 | 8-5-4-6-9(6,4) | + | + | 1 | b |
| 2010 | **918** | **Bâtonnets de surimi surgelés** | **Frozen surimi** | *L. monocytogenes* Ad888 | Surimi | TS +10%NaCl/ -20°C 5 days/HT 56°C 10min | >1,53 | 9-2-9-6-5(6,2) | + | + | 5 | c |
| 2010 | **919** | **Filet de Maquereaux fumés au poivre** | **Smoked peppered mackerel** | *L. monocytogenes* A00M019 | Smoked salmon | TS +10%NaCl/ -20°C 5 days/HT 56°C 10min | >1,91 | 9-10-7-8-16(10,0) | + | + | 5 | b |
| 2010 | **920** | **Steak de thon surgelé** | **Frozen tuna** | *L. monocytogenes* Ad888 | Surimi | TS +10%NaCl/ -20°C 5 days/HT 56°C 10min | >1,53 | 9-2-9-6-5(6,2) | + | + | 5 | a |
| 2010 | **921** | **Croquettes de poisson panés ail et fines herbes surgelées** | **Fish balls** | *L. monocytogenes* A00M019 | Smoked salmon | TS +10%NaCl/ -20°C 5 days/HT 56°C 10min | >1,91 | 9-10-7-8-16(10,0) | + | + | 5 | c |
| 2010 | **922** | **Moules cuisinées à la persillade** | **Cooked mussels** | *L.monocytogenes* Ad 299 | Seafood | TS +10%NaCl/ -20°C 5 days/HT 56°C 10min | 0,66 | 8-10-11-9-16(10,8) | + | + | 5 | c |
| 2009 | **1830** | **Reblochon au lait cru** | **Raw cow milk cheese** | *L.monocytogenes* Ad470 | Cheese | HT 56°C 30min | 2,28 | 2-4-4-2-3(3,0) | - | - | 3 | b |
| 2009 | **1833** | **Camembert au lait cru** | **Raw cow milk cheese** | *L.monocytogenes* Ad470 | Cheese | HT 56°C 30min | 2,28 | 2-4-4-2-3(3,0) | + | + | 3 | b |
| 2009 | **1834** | **Saint Félicien au lait cru** | **Raw milk cheese** | *L.monocytogenes* Ad470 | Cheese | HT 56°C 30min | 2,28 | 2-4-4-2-3(3,0) | - | - | 3 | b |
| 2009 | **1835** | **Lait ribot** | **Fermented milk** | *L.monocytogenes* Ad470 | Cheese | HT 56°C 30min | 2,28 | 2-4-4-2-3(3,0) | - | - | 3 | c |
| 2009 | **1836** | **Lait en poudre écrémé** | **Skimmed milk powder** | *L.monocytogenes* Ad612 | Cheese | HT 56°C 30min | 0,78 | 4-7-2-7-6(5,2) | + | + | 3 | c |
| 2009 | **1837** | **Crottin de Chavignol** | **Raw goat milk cheese** | *L.monocytogenes* Ad612 | Cheese | HT 56°C 30min | 0,78 | 4-7-2-7-6(5,2) | - | - | 3 | b |
| 2009 | **1840** | **Petit Normand au lait cru** | **Raw cow milk cheese** | *L.monocytogenes* Ad612 | Cheese | HT 56°C 30min | 0,78 | 4-7-2-7-6(5,2) | - | - | 3 | b |
| 2009 | **1842** | **Crème fraîche** | **Fresh cream** | *L.monocytogenes* Ad612 | Cheese | HT 56°C 30min | 0,78 | 4-7-2-7-6(5,2) | + | + | 3 | c |
| 2009 | **1844** | **Faisselle** | **Fermented milk** | *L.monocytogenes* Ad632 | Milk | HT 56°C 30min | 5,22 | 0-0-0-0-0(0,0) | - | - | 3 | c |
| 2009 | **1845** | **Gros lait fermier** | **Fermented milk** | *L.monocytogenes* Ad632 | Milk | HT 56°C 30min | 5,22 | 0-0-0-0-0(0,0) | - | - | 3 | c |
| 2009 | **1847** | **Lait Ribot** | **Fermented milk** | *L.monocytogenes* Ad621 | Environmental sample | 56°C 30min | 1,18 | 8-6-5-6-8(6,6) | + | - | 3 | c |
| 2009 | **1849** | **Lait entier en poudre** | **Milk powder** | *L.monocytogenes* Ad621 | Environmental sample | 56°C 30min | 1,18 | 8-6-5-6-8(6,6) | + | + | 3 | c |
| 2009 | **1852** | **Lait pour nourrissons** | **Infant formula milk powder** | *L.monocytogenes* Ad621 | Environmental sample | 56°C 30min | 1,18 | 8-6-5-6-8(6,6) | - | - | 3 | c |

| Year of analysis | Sample N° | Product (French name) | Product (English name) | Artificial contaminations | | | | | Global result A | Global result B | Category | Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Strain | Origin | Injury applied | Injury measure-ment | Inoculation level CFU/sample | | | | |
| 2018 | **4375** | **Tranche feuilletée pâtisserie** | **Pastry** | *L. monocytogenes* Ad1195 / *L. innocua* Ad644 | Egg products | Seeding 48h 5±3°C | / | 1-0-2-1-0 (0,8) / 1-2-4-0-0 (1,4) | + | + | 1 | c |
| 2018 | **4376** | **Eclair au chocolat** | **Pastry** | *L. monocytogenes* Ad1195 / *L. innocua* Ad644 | Egg products | Seeding 48h 5±3°C | / | 1-0-2-1-0 (0,8) / 1-2-4-0-0 (1,4) | + | + | 1 | c |
| 2018 | **4377** | **Mille feuilles** | **Pastry** | *L. monocytogenes* Ad1195 / *L. innocua* Ad644 | Egg products | Seeding 48h 5±3°C | / | 1-0-2-1-0 (0,8) / 1-2-4-0-0 (1,4) | - | - | 1 | c |
| 2018 | **4378** | **Tortilla au jambon** | **Tortilla with ham** | *L. monocytogenes* Ad1195 / *L. innocua* Ad644 | Egg products | Seeding 48h 5±3°C | / | 1-0-2-1-0 (0,8) / 1-2-4-0-0 (1,4) | - | - | 1 | c |
| 2018 | **4379** | **Tortilla nature** | **Tortilla** | *L. monocytogenes* Ad1195 / *L. innocua* Ad644 | Egg products | Seeding 48h 5±3°C | / | 1-0-2-1-0 (0,8) / 1-2-4-0-0 (1,4) | - | - | 1 | c |
| 2018 | **4380** | **Tortilla oignons** | **Tortilla with onions** | *L. monocytogenes* Ad1195 / *L. innocua* Ad644 | Egg products | Seeding 48h 5±3°C | / | 1-0-2-1-0 (0,8) / 1-2-4-0-0 (1,4) | + | + | 1 | c |
| 2018 | **4381** | **Carottes nantaises** | **RTRH carrots** | *L. monocytogenes* Ad544 / *L. innocua* Ad1673 | Vegetables | Seeding 48h 5±3°C | / | 1-1-0-1-2 (1,2) / 0-3-2-0-2 (1,4) | - | - | 4 | c |
| 2018 | **4382** | **Mélange de crudités** | **RTE vegetables mix** | *L. monocytogenes* Ad544 / *L. innocua* Ad1673 | Vegetables | Seeding 48h 5±3°C | / | 1-1-0-1-2 (1,2) / 0-3-2-0-2 (1,4) | + | + | 4 | c |
| 2018 | **4383** | **Mélange de crudités** | **RTE vegetables mix** | *L. monocytogenes* Ad544 / *L. innocua* Ad1673 | Vegetables | Seeding 48h 5±3°C | / | 1-1-0-1-2 (1,2) / 0-3-2-0-2 (1,4) | - | - | 4 | c |
| 2018 | **4384** | **Wok asiatique** | **RTRH vegetables mix (for wok)** | *L. monocytogenes* Ad544 / *L. innocua* Ad1673 | Vegetables | Seeding 48h 5±3°C | / | 1-1-0-1-2 (1,2) / 0-3-2-0-2 (1,4) | + | + | 4 | c |
| 2018 | **4385** | **Nugget soja blé légumes** | **Vegetables nuggets** | *L. monocytogenes* Ad543 / *L. welshimeri* Ad1668 | Vegetables | Seeding 48h 5±3°C | / | 1-2-0-1-2 (1,2) / 1-0-0-1-0 (0,4) | + | + | 4 | c |
| 2018 | **4386** | **Boulette carotte petits pois blé** | **Vegetables balls** | *L. monocytogenes* Ad543 / *L. welshimeri* Ad1668 | Vegetables | Seeding 48h 5±3°C | / | 1-2-0-1-2 (1,2) / 1-0-0-1-0 (0,4) | + | + | 4 | c |
| 2018 | **4387** | **Couscous végan méditerranéen** | **Vegetable couscous** | *L. monocytogenes* Ad543 / *L. welshimeri* Ad1668 | Vegetables | Seeding 48h 5±3°C | / | 1-2-0-1-2 (1,2) / 1-0-0-1-0 (0,4) | + | + | 4 | c |
| 2018 | **4388** | **Galette poireaux boulgour** | **RTRH vegetables cake** | *L. monocytogenes* Ad543 / *L. welshimeri* Ad1668 | Vegetables | Seeding 48h 5±3°C | / | 1-2-0-1-2 (1,2) / 1-0-0-1-0 (0,4) | - | - | 4 | c |
| 2018 | **4389** | **Falafel pois chiches fève coriandre menthe** | **Vegetables falafels** | *L. monocytogenes* Ad543 / *L. welshimeri* Ad1668 | Vegetables | Seeding 48h 5±3°C | / | 1-2-0-1-2 (1,2) / 1-0-0-1-0 (0,4) | + | + | 4 | c |
| 2018 | **4390** | **Sandwich jambon emmental** | **Sandwich with ham and cheese** | *L. monocytogenes* Ad276 | Pork meat | Seeding 48h 5±3°C | / | 1-0-0-0-1 (0,4) | + | + | 1 | a |
| 2018 | **4391** | **Sandwich jambon emmental** | **Sandwich with ham and cheese** | *L. monocytogenes* Ad276 | Pork meat | Seeding 48h 5±3°C | / | 1-0-0-0-1 (0,4) | + | + | 1 | a |
| 2018 | **4392** | **Taboulé** | **Tabouleh** | *L. monocytogenes* Ad1495 | Deli-salad | Seeding 48h 5±3°C | / | 0-2-1-1-2 (1,2) | - | - | 1 | a |
| 2018 | **4393** | **Sandwich jambon beurre** | **Sandwich with ham and butter** | *L. monocytogenes* Ad276 | Pork meat | Seeding 48h 5±3°C | / | 1-0-0-0-1 (0,4) | + | + | 1 | a |
| 2018 | **4394** | **Piémontaise au jambon** | **RTE Salad with ham** | *L. monocytogenes* Ad1495 | Deli-salad | Seeding 48h 5±3°C | / | 0-2-1-1-2 (1,2) | - | - | 1 | a |
| 2018 | **4395** | **Torsades poulet rôti salade** | **RTE Deli-salad** | *L. monocytogenes* Ad1495 | Deli-salad | Seeding 48h 5±3°C | / | 0-2-1-1-2 (1,2) | - | - | 1 | a |
| 2018 | **4396** | **Sandwich jambon cheddar** | **Sandwich with ham and cheddar** | *L. monocytogenes* Ad276 | Pork meat | Seeding 48h 5±3°C | / | 1-0-0-0-1 (0,4) | + | + | 1 | a |
| 2018 | **4397** | **Salade au jambon** | **Salad with ham** | *L. monocytogenes* Ad1495 | Deli-salad | Seeding 48h 5±3°C | / | 0-2-1-1-2 (1,2) | + | + | 1 | a |
| 2018 | **4398** | **Couscous 3 viandes** | **Couscous** | *L. monocytogenes* Ad466 | Poultry meat | Seeding 48h 5±3°C | / | 0-1-0-1-2 (0,8) | - | - | 1 | b |
| 2018 | **4399** | **Couscous 3 viandes** | **Couscous** | *L. monocytogenes* Ad1206 | Beef meat | Seeding 48h 5±3°C | / | 1-0-0-1-1 (0,6) | + | + | 1 | b |
| 2018 | **4400** | **Poulet sauce aigre douce et riz** | **RTRH food** | *L. monocytogenes* Ad466 | Poultry meat | Seeding 48h 5±3°C | / | 0-1-0-1-2 (0,8) | + | + | 1 | b |
| 2018 | **4401** | **Bœuf aux oignons et pâtes** | **RTRH food** | *L. monocytogenes* Ad1206 | Beef meat | Seeding 48h 5±3°C | / | 1-0-0-1-1 (0,6) | + | + | 1 | b |
| 2018 | **4402** | **Poulet curry légumes** | **RTRH food** | *L. monocytogenes* Ad466 | Poultry meat | Seeding 48h 5±3°C | / | 0-1-0-1-2 (0,8) | + | + | 1 | b |
| 2018 | **4403** | **Bœuf charolais au vin blanc pomme de terre** | **RTRH food** | *L. monocytogenes* Ad1206 | Beef meat | Seeding 48h 5±3°C | / | 1-0-0-1-1 (0,6) | + | + | 1 | b |
| 2018 | **4471** | **Fromage de chèvre pasteurisé** | **Pasteurised goat cheese** | *L. monocytogenes* Ad523 | Cheese | Seeding 48h 5±3°C | / | 3-1-0-1-0 (1,0) | - | - | 3 | c |
| 2018 | **4472** | **Emmental français pasteurisé** | **Pasteurised emmental cheese** | *L. monocytogenes* Ad523 | Cheese | Seeding 48h 5±3°C | / | 3-1-0-1-0 (1,0) | - | - | 3 | c |
| 2018 | **4473** | **Camembert au lait pasteurisé** | **Pasterised** | *L. monocytogenes* Ad523 | Cheese | Seeding 48h 5±3°C | / | 3-1-0-1-0 (1,0) | + | + | 3 | c |
| 2018 | **4474** | **7 légumes variés surgelés** | **Frozen vegetables mix** | *L. monocytogenes* Ad1303 | Vegetables | Seeding 48h 5±3°C | / | 3-1-3-0-1 (1,6) | - | - | 4 | b |
| 2018 | **4475** | **7 légumes variés surgelés** | **Frozen vegetables mix** | *L. monocytogenes* Ad1493 | Vegetables | Seeding 48h 5±3°C | / | 1-0-1-1-0 (0,6) | + | + | 4 | b |

| Year of analysis | Sample N° | Product (French name) | Product (English name) | Artificial contaminations | | | | | Global result A | Global result B | Category | Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Strain | Origin | Injury applied | Injury measure-ment | Inoculation level CFU/sample | | | | |
| 2018 | **4476** | **Poêlée champêtre surgelée** | **Frozen vegetables mix** | *L. monocytogenes* Ad1303 | Vegetables | Seeding 48h 5±3°C | / | 3-1-3-0-1 (1,6) | + | + | 4 | b |
| 2018 | **4477** | **Poêlée champêtre surgelée** | **Frozen vegetables mix** | *L. monocytogenes* Ad1493 | Vegetables | Seeding 48h 5±3°C | / | 1-0-1-1-0 (0,6) | - | - | 4 | b |
| 2018 | **4478** | **Julienne de légumes surgelée** | **Frozen vegetables mix** | *L. monocytogenes* Ad1303 | Vegetables | Seeding 48h 5±3°C | / | 3-1-3-0-1 (1,6) | + | + | 4 | b |
| 2018 | **4479** | **Julienne de légumes surgelée** | **Frozen vegetables mix** | *L. monocytogenes* Ad1493 | Vegetables | Seeding 48h 5±3°C | / | 1-0-1-1-0 (0,6) | + | + | 4 | b |
| 2018 | **4480** | **Légumes pour potager bio surgelés** | **Frozen vegetables mix** | *L. monocytogenes* Ad1493 | Vegetables | Seeding 48h 5±3°C | / | 1-0-1-1-0 (0,6) | + | + | 4 | b |
| 2018 | **4481** | **Harengs fumés** | **Smoked herring** | *L. monocytogenes* Ad140 | Smoked fish | Seeding 48h 5±3°C | / | 2-2-3-0-1 (1,4) | - | - | 5 | b |
| 2018 | **4482** | **Filet de maquereaux fumés au bois de hétre** | **Smoked mackerel** | *L. monocytogenes* Ad140 | Smoked fish | Seeding 48h 5±3°C | / | 2-2-3-0-1 (1,4) | + | + | 5 | b |
| 2018 | **4485** | **Eau de rinçage (industrie de poissons)** | Rinse water (Fish industry) | *L. monocytogenes* A00E008 | Environmental sample (fish industry) | Seeding 48h 5±3°C | / | 2-3-0-0-0 (1,0) | + | + | 6 | a |
| 2018 | **4486** | **Eau de rinçage (industrie de poissons)** | Rinse water (Fish industry) | *L. monocytogenes* A00E008 | Environmental sample (fish industry) | Seeding 48h 5±3°C | / | 2-3-0-0-0 (1,0) | - | - | 6 | a |
| 2018 | **4487** | **Eau de process (cutter découpe saumon fumé, industrie de poissons)** | Rinse water (Fish industry) | *L. monocytogenes* A00E008 | Environmental sample (fish industry) | Seeding 48h 5±3°C | / | 2-3-0-0-0 (1,0) | - | - | 6 | a |
| 2018 | **5023** | **Tortilla bio** | **Tortilla** | *L. monocytogenes* Ad1757 | Egg products | Seeding 48h 5±3°C | / | 2-6-1-0-2 (2,2) | + | + | 1 | c |
| 2018 | **5024** | **Tortilla oignons** | **Tortilla with onions** | *L. monocytogenes* Ad1757 | Egg products | Seeding 48h 5±3°C | / | 2-6-1-0-2 (2,2) | + | + | 1 | c |
| 2018 | **5025** | **Brownie** | **Brownie** | *L. monocytogenes* Ad1757 | Egg products | Seeding 48h 5±3°C | / | 2-6-1-0-2 (2,2) | - | - | 1 | c |
| 2018 | **5026** | **Eclair au chocolat** | **Pastry** | *L. monocytogenes* Ad1757 | Egg products | Seeding 48h 5±3°C | / | 2-6-1-0-2 (2,2) | + | + | 1 | c |
| 2018 | **5027** | **Panna cotta coulis framboise** | **Panna cotta** | *L. monocytogenes* 17501 | Dairy product | Seeding 48h 5±3°C | / | 2-2-1-0-2 (1,2) | + | + | 3 | c |
| 2018 | **5028** | **Panna cotta mûre et cassis** | **Panna cotta** | *L. monocytogenes* 17501 | Dairy product | Seeding 48h 5±3°C | / | 2-2-1-0-2 (1,2) | + | + | 3 | c |
| 2018 | **5029** | **Riz au lait saveur vanille** | **Rice pudding** | *L. monocytogenes* 17501 | Dairy product | Seeding 48h 5±3°C | / | 2-2-1-0-2 (1,2) | + | + | 3 | c |
| 2018 | **5030** | **Déchets mêlée jambon végétale (production de saucisse végétale)** | **Residues (vegetable ham)** | *L. monocytogenes* Ad2600 / *L. seeligeri* Ad651 | Environmental samples | Seeding 48h 5±3°C | / | 2-1-1-2-2 (1,6) / 3-0-1-0-3 (1,4) | + | + | 6 | c |
| 2018 | **5031** | **Déchets mêlée soja (production de saucisse végétale)** | **Residues (vegetable sausage)** | *L. monocytogenes* Ad2600 / *L. seeligeri* Ad651 | Environmental samples | Seeding 48h 5±3°C | / | 2-1-1-2-2 (1,6) / 3-0-1-0-3 (1,4) | + | + | 6 | c |
| 2018 | **5032** | **Déchets saucisse végétale (production de saucisse végétale)** | **Residues (vegetable sausage)** | *L. monocytogenes* Ad2600 / *L. seeligeri* Ad651 | Environmental samples | Seeding 48h 5±3°C | / | 2-1-1-2-2 (1,6) / 3-0-1-0-3 (1,4) | + | + | 6 | c |
| 2018 | **5033** | **Déchet de sol (Industrie produits de la mer)** | **Floor residues (Seafood industry)** | *L. monocytogenes* A00E049 / *L. welshimeri* Ad1268 | Environmental samples | Seeding 48h 5±3°C | / | 1-1-0-2-1 (1,0) / 1-0-0-1-1 (0,6) | + | + | 6 | c |
| 2018 | **5034** | **Déchet pomme (production compote et soupe)** | **Residues (apple)** | *L. monocytogenes* A00E049 / *L. welshimeri* Ad1268 | Environmental samples | Seeding 48h 5±3°C | / | 1-1-0-2-1 (1,0) / 1-0-0-1-1 (0,6) | + | + | 6 | c |
| 2018 | **5035** | **Déchet de sol P2 (industrie saumon)** | **Floor residues (Fish industry)** | *L. monocytogenes* A00E033 | Environmental samples (Fish industry) | Seeding 48h 5±3°C | / | 1-4-1-2-2 (2,0) | + | + | 6 | c |
| 2018 | **5036** | **Déchets de volaille (industrie volailles)** | **Poultry residues (Poultry industry)** | *L. monocytogenes* A00E049 / *L. welshimeri* Ad1268 | Environmental samples | Seeding 48h 5±3°C | / | 1-1-0-2-1 (1,0) / 1-0-0-1-1 (0,6) | + | + | 6 | c |
| 2018 | **5037** | **Déchets poisson (industrie saumon)** | **Fish residues (Fish industry)** | *L. monocytogenes* A00E033 | Environmental samples (Fish industry) | Seeding 48h 5±3°C | / | 1-4-1-2-2 (2,0) | + | + | 6 | c |
| 2018 | **5038** | **Déchets poisson (industrie saumon)** | **Fish residues (Fish industry)** | *L. monocytogenes* A00E033 | Environmental samples (Fish industry) | Seeding 48h 5±3°C | / | 1-4-1-2-2 (2,0) | + | + | 6 | c |
| 2018 | **6077** | **Eau de rinçage du réseau (process) (industrie laitière)** | | *L. monocytogenes* Ad1679 | Environmental sample | Seeding 48h 5±3°C | / | 1-3-2-1-4 (2,2) | + | + | 6 | a |
| 2018 | **6078** | **Eau de rinçage (industrie de la viande)** | **Rinse water (Meat Industry)** | *L. monocytogenes* A00E082 | Environmental sample | Seeding 48h 5±3°C | / | 4-1-4-1-1 (2,2) | + | + | 6 | a |
| 2018 | **6079** | **Eau de process (industrie de la viande)** | **Process water (Meat Industry)** | *L. monocytogenes* Ad1255 | Environmental sample | Seeding 48h 5±3°C | / | 3-1-4-0-0 (1,6) | + | + | 6 | a |
| 2018 | **6080** | **Eau épileuse (industrie de la viande)** | **Process water (Meat Industry)** | *L. monocytogenes* Ad1679 | Environmental sample | Seeding 48h 5±3°C | / | 1-3-2-1-4 (2,2) | - | - | 6 | a |

| Year of analysis | Sample N° | Product (French name) | Product (English name) | Artificial contaminations | | | | | Global result A | Global result B | Category | Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Strain | Origin | Injury applied | Injury measure-ment | Inoculation level CFU/sample | | | | |
| 2018 | 6081 | Eau fin de rinçage circuit concentrateur (industrie laitière) | Rinse water (Industry of milk) | *L. monocytogenes* A00E082 | Environmental sample | Seeding 48h 5±3°C | / | 4-1-4-1-1 (2,2) | + | + | 6 | a |
| 2018 | 6082 | Eau de lavage (industrie laitière) | Washing water (Industry of milk) | *L. monocytogenes* Ad1255 | Environmental sample | Seeding 48h 5±3°C | / | 3-1-4-0-0 (1,6) | - | - | 6 | a |
| 2018 | 6083 | Eau de rinçage mixeur noisette pour pâte à tartiner | Rinse water (production of chocolate spread) | *L. monocytogenes* Ad1679 | Environmental sample | Seeding 48h 5±3°C | / | 1-3-2-1-4 (2,2) | - | - | 6 | a |
| 2018 | 6084 | Eau de rinçage saucisse végétale | Rinse water (vegetable sausage) | *L. monocytogenes* A00E082 | Environmental sample | Seeding 48h 5±3°C | / | 4-1-4-1-1 (2,2) | + | + | 6 | a |
| 2018 | 6085 | Eau de lavage cutter (industrie du poisson) | Washing water (Fish industry) | *L. monocytogenes* Ad1255 | Environmental sample | Seeding 48h 5±3°C | / | 3-1-4-0-0 (1,6) | + | + | 6 | a |
| 2018 | 6086 | Eau de process saumon (industrie du poisson) | Process water (Flsht Industry) | *L. monocytogenes* Ad1679 | Environmental sample | Seeding 48h 5±3°C | / | 1-3-2-1-4 (2,2) | + | + | 6 | a |
| 2018 | 6087 | Eau de rinçage (industrie du poissons) | Rinse water (Fish industry) | *L. monocytogenes* A00E082 | Environmental sample | Seeding 48h 5±3°C | / | 4-1-4-1-1 (2,2) | - | - | 6 | a |
| 2018 | 6088 | Eau de process épineuse (industrie du poisson) | Process water (Fish Industry) | *L. monocytogenes* Ad1255 | Environmental sample | Seeding 48h 5±3°C | / | 3-1-4-0-0 (1,6) | + | + | 6 | a |
| 2018 | 6089 | Eau de process fileteuse (industrie du poisson) | Process water (Fish Industry) | *L. monocytogenes* Ad1679 | Environmental sample | Seeding 48h 5±3°C | / | 1-3-2-1-4 (2,2) | + | + | 6 | a |
| 2018 | 6090 | Eau de process épileuse démarrage (industire de la viande) | Process water (Meat Industry) | *L. monocytogenes* A00E082 | Environmental sample | Seeding 48h 5±3°C | / | 4-1-4-1-1 (2,2) | + | + | 6 | a |
| 2018 | 6091 | Eponge égout devant tunnel de raidissage (industrie de la viande) | Sponge (Meat industry) | *L. monocytogenes* Ad1259 | Environmental sample | Seeding 48h 5±3°C | / | 2-1-1-5-1 (2,0) | + | + | 6 | b |
| 2018 | 6092 | Eponge égout tartares (industrie de la viande) | Sponge (Meat industry) | *L. monocytogenes* Ad1259 | Environmental sample | Seeding 48h 5±3°C | / | 2-1-1-5-1 (2,0) | + | + | 6 | b |
| 2018 | 6374 | Poussière aspirateur (environnement laitier) | Dusts (Dairy industry) | *L. monocytogenes* Ad617 | Dairy environment | Spiking TT 10min 56°C | 0,7 | 4-4-5-5-4 (4,4) | + | + | 6 | c |
| 2018 | 6375 | Poussière aspirateur (environnement laitier) | Dusts (Dairy industry) | *L. monocytogenes* Ad621 | Dairy environment | Spiking TT 10min 56°C | 0,9 | 7-4-6-5-7 (5,8) | + | + | 6 | c |
| 2018 | 6376 | Poussière aspirateur (environnement laitier) | Dusts (Dairy industry) | *L. monocytogenes* Ad624 | Dairy environment | Spiking TT 10min 56°C | 0,7 | 6-4-5-6-6 (5,4) | + | + | 6 | c |
| 2018 | 6377 | Poussière aspirateur (environnement laitier) | Dusts (Dairy industry) | *L. monocytogenes* Ad617 | Dairy environment | Spiking TT 10min 56°C | 0,7 | 4-4-5-5-4 (4,4) | + | + | 6 | c |
| 2018 | 6378 | Poussière aspirateur (environnement laitier) | Dusts (Dairy industry) | *L. monocytogenes* Ad621 | Dairy environment | Spiking TT 10min 56°C | 0,9 | 7-4-6-5-7 (5,8) | + | + | 6 | c |
| 2018 | 6379 | Poussière aspirateur (environnement laitier) | Dusts (Dairy industry) | *L. monocytogenes* Ad624 | Dairy environment | Spiking TT 10min 56°C | 0,7 | 6-4-5-6-6 (5,4) | + | + | 6 | c |
| 2018 | 6380 | Poussière aspirateur (environnement laitier) | Dusts (Dairy industry) | *L. monocytogenes* Ad617 | Dairy environment | Spiking TT 10min 56°C | 0,7 | 4-4-5-5-4 (4,4) | + | + | 6 | c |
| 2018 | 6381 | Poussière aspirateur (environnement laitier) | Dusts (Dairy industry) | *L. monocytogenes* Ad621 | Dairy environment | Spiking TT 10min 56°C | 0,9 | 7-4-6-5-7 (5,8) | + | + | 6 | c |
| 2018 | 6468 | Poussière lait (aspirateur) | Dusts (Dairy industry) | *L. monocytogenes* Ad614 | Environmental samples (milk industry) | Seeding lyophilized strain 2 weeks at room temperature | / | 0,5 | + | + | 6 | c |
| 2018 | 6469 | Poussière lait (aspirateur) | Dusts (Dairy industry) | *L. monocytogenes* Ad614 | Environmental samples (milk industry) | Seeding lyophilized strain 2 weeks at room temperature | / | 0,5 | - | - | 6 | c |
| 2018 | 6470 | Poussière lait (aspirateur) | Dusts (Dairy industry) | *L. monocytogenes* Ad614 | Environmental samples (milk industry) | Seeding lyophilized strain 2 weeks at room temperature | / | 0,5 | + | + | 6 | c |
| 2018 | 6471 | Poussière lait (aspirateur) | Dusts (Dairy industry) | *L. monocytogenes* Ad615 | Environmental samples (milk industry) | Seeding lyophilized strain 2 weeks at room temperature | / | <0,5 | + | + | 6 | c |
| 2018 | 6472 | Poussière lait (aspirateur) | Dusts (Dairy industry) | *L. monocytogenes* Ad615 | Environmental samples (milk industry) | Seeding lyophilized strain 2 weeks at room temperature | / | <0,5 | + | + | 6 | c |
| 2018 | 6473 | Poussière lait (aspirateur) | Dusts (Dairy industry) | *L. monocytogenes* Ad615 | Environmental samples (milk industry) | Seeding lyophilized strain 2 weeks at room temperature | / | <0,5 | + | + | 6 | c |

| Year of analysis | Sample N° | Product (French name) | Product (English name) | Artificial contaminations | | | | | Global result A | Global result B | Category | Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Strain | Origin | Injury applied | Injury measure-ment | Inoculation level CFU/sample | | | | |
| 2018 | **6873** | **Ecouvillon tapis ligne PN (industrie du poisson)** | **Swab (Fish industry)** | *L. monocytogenes* A00E033 | Environmental samples (fish industry) | Seeding 48h 5±3°C | / | 1-1-2-0-0 (0,8) | - | - | 6 | b |
| 2018 | **6874** | **Ecouvillon tapis ligne CP1 (industrie du poisson)** | **Swab (Fish industry)** | *L. monocytogenes* Ad548 | Environmental samples (fish industry) | Seeding 48h 5±3°C | / | 2-3-1-1-1 (1,6) | + | + | 6 | b |
| 2018 | **6875** | **Chiffonnette table à nerf avant nettoyage (industrie de la viande)** | **Wipe (Meat industry)** | *L. monocytogenes* Ad1255 | Environmental samples (meat industry) | Seeding 48h 5±3°C | / | 1-1-0-3-1 (1,2) | + | + | 6 | b |
| 2018 | **6876** | **Chiffonnette mur à abattage (industrie de la viande)** | **Wipe (Meat industry)** | *L. monocytogenes* Ad1255 | Environmental samples (meat industry) | Seeding 48h 5±3°C | / | 1-1-0-3-1 (1,2) | + | + | 6 | b |
| 2018 | **6877** | **Chiffonnette plan de travail avant production (production thon)** | **Wipe (Fish production)** | *L. monocytogenes* Ad548 | Environmental samples (fish industry) | Seeding 48h 5±3°C | / | 2-3-1-1-1 (1,6) | + | + | 6 | b |
| 2018 | **6878** | **Chiffonnette plan de travail après nettoyage (production saucisse et saucisse végétale)** | **Wipe (Sausage production)** | *L. monocytogenes* Ad1255 | Environmental samples (meat industry) | Seeding 48h 5±3°C | / | 1-1-0-3-1 (1,2) | + | + | 6 | b |
| 2018 | **6879** | **Eponge égout (industrie du poisson)** | **Sponge (Fish industry)** | *L. monocytogenes* A00E033 | Environmental samples (fish industry) | Seeding 48h 5±3°C | / | 1-1-2-0-0 (0,8) | + | + | 6 | b |
| 2018 | **6880** | **Eponge sol frais après nettoyage (industrie du poisson)** | **Sponge (Fish industry)** | *L. monocytogenes* Ad548 | Environmental samples (fish industry) | Seeding 48h 5±3°C | / | 2-3-1-1-1 (1,6) | + | + | 6 | b |

# Appendix 4 – Sensitivity study: raw data

**Bold typing: artificially inoculated samples**

***Listeria* detection results:**

| | |
|---|---|
| H-: | characteristic Listeria colonies without halo |
| H+: | characteristic Listeria colonies with halo |
| -: | no typical colonies but presence of background microflora |
| st: | plate without any colony |
| i: | PCR inhibition |
| PA: | positive agreement |
| NA: | negative agreement |
| ND: | negative deviation |
| PD: | positive deviation |
| PPNA: | positive presumptive negative agreement |
| PPND: | positive presumptive negative deviation |
| NC: | non characteristic colony on TSYEA |
| d: | doubtful colony |
| *: | 1/10 dilution extract |
| **: | 1/6 dilution extract |

| COMPOSITE FOODS | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Year of analysis | Sample N° | Product (French name) | Product (English name) | Reference method: ISO 11290-1♦ | | | | | | Category | Type |
| | | | | Half Fraser | | Fraser | | Identification | Result *L. monocytogenes* ISO | | |
| | | | | O&A | Palcam | O&A | Palcam | | | | |
| 2010 | 2011 | Salade de pâtes (poivrons, saucisses) | Pasta salad (peppers, sausages) | - | - | - | - | / | - | 1 | a |
| 2010 | 2019 | Salade carottes-surimi | Salad (carrots, surimi) | - | - | - | - | / | - | 1 | a |
| 2010 | 2022 | Taboulé aux crevettes | Tabouleh with shrimps | - | - | - | - | / | - | 1 | a |
| 2010 | 2023 | Salade poireaux-poulet | Salad (links and chicken) | - | - | - | - | / | - | 1 | a |
| 2010 | 2027 | Riz au crabe | Salad (Rice and crab) | - | - | - | - | / | - | 1 | a |
| 2010 | 2028 | Salade de Saint-Jacques et gambas | Salad (scallops and prawns) | - | - | + | + | *L.monocytogenes/L.welshimeri/L.innocua* | + | 1 | a |
| 2010 | 493 | Riz cantonnais | Cooked rice | H- | + | H+/H- | + | *L.monocytogenes/L.welshimeri or innocua* | + | 1 | a |
| 2010 | **910** | **Crudités mélangées** | **Raw vegetables mix** | H+ | + | H+ | + | *L.monocytogenes* | + | 1 | a |
| 2010 | 943 | Salade chinoise | Chinese deli salad | H- | + | H- | + | *L.seeligeri* | - | 1 | a |
| 2010 | 944 | Rouleau de printemps | Spring rolls | H- | + | H- | + | *L.seeligeri* | - | 1 | a |
| 2010 | 945 | Salade chinoise | Chinese deli salad | - | - | - | - | / | - | 1 | a |
| 2010 | 946 | Rouleau de printemps | Spring rolls | H-(NC) | 2colH-(gram-) | - | - | / | - | 1 | a |
| 2010 | 1041 | Taboulé | Tabouleh | H- | + | H- | + | *L. welshimeri* | - | 1 | a |
| 2010 | 1043 | Céleri rémoulade | Deli salad (celery) | H- | + | H- | + | *L.innocua* | - | 1 | a |
| 2010 | 1044 | Riz Niçois | Deli salad (rice) | H- | + | H- | + | *L. welshimeri* | - | 1 | a |
| 2010 | 1045 | Piémontaise au jambon | Deli salad (Pièmontaise) | H- | + | H- | + | *L.innocua* | - | 1 | a |
| 2010 | 1046 | Salade Bretonne | Deli salad | H- | + | H- | + | *L.innocua* | - | 1 | a |
| 2010 | 1047 | Trio de chou | Cabbage salad | H- | + | H- | + | *L.innocua* | - | 1 | a |
| 2010 | 1048 | Salade de thon | Tuna deli salad | - | - | - | - | / | - | 1 | a |
| 2018 | 4322 | Salade de torti | RTE Salad with pasta | - | - | H+ | + | *L. monocytogenes* | + | 1 | a |
| 2018 | **4390** | **Sandwich jambon emmental** | **Sandwich with ham and cheese** | H+ | + | H+ | + | *L. monocytogenes* | + | 1 | a |
| 2018 | **4391** | **Sandwich jambon emmental** | **Sandwich with ham and cheese** | st | - | st | - | / | - | 1 | a |
| 2018 | **4392** | **Taboulé** | **Tabouleh** | H-d (NC) | - | - | - | / | - | 1 | a |
| 2018 | **4393** | **Sandwich jambon beurre** | **Sandwich with ham and butter** | - | - | - | - | / | - | 1 | a |
| 2018 | **4394** | **Piémontaise au jambon** | **RTE Salad with ham** | st | - | - | - | / | - | 1 | a |
| 2018 | **4395** | **Torsades poulet rôti salade** | **RTE Deli-salad** | st | st | st | st | / | - | 1 | a |
| 2018 | **4396** | **Sandwich jambon cheddar** | **Sandwich with ham and cheddar** | - | - | - | - | / | - | 1 | a |
| 2018 | **4397** | **Salade au jambon** | **Salad with ham** | H+ | + | H+ | + | *L. monocytogenes* | + | 1 | a |
| 2010 | 2134 | Pizza | Pizza | H+ | + | H+ | + | *L.monocytogenes* | + | 1 | b |
| 2010 | 2135 | Brioche au saucisson | Brioche with sausage | - | - | - | - | / | - | 1 | b |
| 2010 | 2175 | Pâté en croûte | Pie | - | - | - | - | / | - | 1 | b |
| 2010 | 85 | Roulés végétaliens précuits | Ready to reheat meal | - | - | - | - | - | - | 1 | b |
| 2010 | 181 | Tomate farcie | Ready to reheat meal | H+ | + | H+ | + | *L.monocytogenes* | + | 1 | b |
| 2010 | 216 | Paella | Paella | - | - | - | - | / | - | 1 | b |
| 2010 | 495 | Feuilleté | Pie | - | - | - | - | / | - | 1 | b |
| 2010 | 541 | Tomate farcie | Ready to reheat meal | - | - | - | - | / | - | 1 | b |
| 2010 | 548 | Duo de chou farci et riz | Ready to reheat meat | - | - | - | - | / | - | 1 | b |
| 2010 | 549 | Escalope de poulet aux champignons | Cooked chicken with mushrooms | - | - | - | - | / | - | 1 | b |
| 2010 | 550 | Porc au caramel | Pork with caramel | - | - | - | - | / | - | 1 | b |
| 2010 | 653 | Burger | Burger | H- | + | H- | + | *L.monocytogenes/L.innocua* | + | 1 | b |
| 2010 | 807 | Navarin d'agneau | Ready to reheat meal (Navarin) | - | - | - | - | / | - | 1 | b |
| 2010 | 808 | Lapin provençal | Ready to reheat meal (rabbit) | - | - | - | - | / | - | 1 | b |
| 2010 | 809 | Poulet au curry | Ready to reheat meal (chicken) | - | - | - | - | / | - | 1 | b |
| 2010 | 810 | Lasagnes bolognaises | Cooked pasta | - | - | - | - | / | - | 1 | b |
| 2010 | 812 | Cordons bleus de dinde | Ready to cook meal (turkey) | - | - | - | - | / | - | 1 | b |
| 2010 | 813 | Hachis Parmentier | Ready to reheat meal | - | - | - | - | / | - | 1 | b |

♦ Analyses performed according to the COFRAC accreditation

| COMPOSITE FOODS | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Year of analysis | Sample N° | Product (French name) | Product (English name) | Reference method: ISO 11290-1♦ | | | | | | Category | Type |
| | | | | Half Fraser | | Fraser | | Identification | Result | | |
| | | | | O&A | Palcam | O&A | Palcam | | *L. monocytogenes* ISO | | |
| 2010 | **917** | **Petits pois aux lardons surgelés** | **Frozen peas and sliced bacon** | H+ | + | H+ | + | *L.monocytogenes* | + | 1 | b |
| 2010 | 1042 | Tagliatelles au surimi | Pasta with surimi | H- | + | H- | + | *L.innocua* | - | 1 | b |
| 2010 | 1050 | Friand | Pie | H- | + | H- | + | *L. welshimeri* | - | 1 | b |
| 2010 | 1051 | Quiche Lorraine | Pie | H- | + | H- | + | *L. welshimeri* | - | 1 | b |
| 2010 | 1052 | Pizza jambon fromage | Pizza | H- | + | H- | + | *L. welshimeri* | - | 1 | b |
| 2010 | 1053 | Tarte au fromage | Pie | H- | - | - | - | / | - | 1 | b |
| 2018 | **4398** | **Couscous 3 viandes** | **Couscous** | st | - | st | - | / | - | 1 | b |
| 2018 | **4399** | **Couscous 3 viandes** | **Couscous** | st | - | st | - | / | - | 1 | b |
| 2018 | **4400** | **Poulet sauce aigre douce et riz** | **RTRH food** | H+ | + | H+ | + | *L. monocytogenes* | + | 1 | b |
| 2018 | **4401** | **Bœuf aux oignons et pâtes** | **RTRH food** | st | - | st | - | / | - | 1 | b |
| 2018 | **4402** | **Poulet curry légumes** | **RTRH food** | st | - | st | - | / | - | 1 | b |
| 2018 | **4403** | **Bœuf charolais au vin blanc pomme de terre** | **RTRH food** | st | st | st | - | / | - | 1 | b |
| 2010 | 2128 | Pâte à galette Bio | Preparation for pancakes | H- | - | - | - | -(catalase-) | - | 1 | c |
| 2010 | 2130 | Gâteau chocolat praliné | Chocolate cake | - | - | 1col H- | - | -(catalase-) | - | 1 | c |
| 2010 | 2131 | Omelette brouillée | Omelette | H+ | + | H+ | + | *L.monocytogenes* | + | 1 | c |
| 2010 | 2132 | Pâte à crêpes | Preparation for pancakes | - | - | - | - | / | - | 1 | c |
| 2010 | 2136 | Omelette brouillée | Omelette | H+ | + | H+ | + | *L.monocytogenes* | + | 1 | c |
| 2010 | 2139 | Gâteau au chocolat | Chocolate cake | H- | - | H- | - | - | - | 1 | c |
| 2010 | 2176 | Omelette 405555 | Omelette | - | - | - | - | / | - | 1 | c |
| 2010 | 2177 | Omelette 405549 | Omelette | H+ | + | H+ | + | *L.monocytogenes* | + | 1 | c |
| 2010 | 2178 | Omelette 405519 | Omelette | - | - | - | - | / | - | 1 | c |
| 2010 | 212 | Omelette | Omelette | H+ | + | H+ | + | *L.monocytogenes* | + | 1 | c |
| 2018 | **4375** | **Tranche feuilletée pâtisserie** | **Pastry** | st | - | st | - | / | - | 1 | c |
| 2018 | **4376** | **Eclair au chocolat** | **Pastry** | H+/H- | + | H+/H- | + | *L. monocytogenes / L. innocua* | + | 1 | c |
| 2018 | **4377** | **Mille feuille** | **Pastry** | H- | + | H- | + | *L. innocua* | - | 1 | c |
| 2018 | **4378** | **Tortilla au jambon** | **Tortilla with ham** | H- | + | H- | + | *L. innocua* | - | 1 | c |
| 2018 | **4379** | **Tortilla nature** | **Tortilla** | H- | + | H- | + | *L. innocua* | - | 1 | c |
| 2018 | **4380** | **Tortilla oignons** | **Tortilla with onions** | H+/H- | + | H+/H- | + | *L. monocytogenes / L. innocua* | + | 1 | c |
| 2018 | 4967 | Flan pâtissier | Pastry | st | - | - | - | / | - | 1 | c |
| 2018 | 4968 | Millefeuilles | Pastry | st | - | st | - | / | - | 1 | c |
| 2018 | 4969 | Eclair vanille | Pastry | st | - | - | - | / | - | 1 | c |
| 2018 | 04970 | Tortilla oignons | Tortilla with onions | st | st | - | st | / | - | 1 | c |
| 2018 | 04971 | Tortilla nature | Tortilla | st | - | - | - | / | - | 1 | c |
| 2018 | **5023** | **Tortilla bio** | **Tortilla** | H+ | + | H+ | + | *L. monocytogenes* | + | 1 | c |
| 2018 | **5024** | **Tortilla oignons** | **Tortilla with onions** | H+ | + | H+ | + | *L. monocytogenes* | + | 1 | c |
| 2018 | **5025** | **Brownie** | **Brownie** | - | - | - | - | / | - | 1 | c |
| 2018 | **5026** | **Eclair au chocolat** | **Pastry** | - | - | - | - | / | - | 1 | c |

| MEAT PRODUCTS | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Year of analysis | Sample N° | Product (French name) | Product (English name) | Reference method: ISO 11290-1♦ | | | | | | Category | Type |
| | | | | Half Fraser | | Fraser | | Identification | Result | | |
| | | | | O&A | Palcam | O&A | Palcam | | *L. monocytogenes* ISO | | |
| 2010 | 2090 | Haché de veau | Ground veal | H+ | + | H+ | + | *L.monocytogenes* | + | 2 | a |
| 2010 | 2095 | Jarret | Pork meat | H+/H- | + | H- | + | *L.monocytogenes* | + | 2 | a |
| 2010 | 2098 | Cuisse de poulet | Chicken leg | H+ | + | H+ | + | *L.monocytogenes* | + | 2 | a |
| 2010 | 2133 | Haché de veau | Ground veal | - | - | - | - | / | - | 2 | a |
| 2010 | 89 | Viande de bœuf hachée | Ground beef | H+ | + | H+ | + | *L.monocytogenes* | + | 2 | a |
| 2010 | 165 | Hachés de veau 191677 | Ground veal | H+ | + | H+ | + | *L.monocytogenes* | + | 2 | a |
| 2010 | 166 | Hachés de veau 191675 | Ground veal | H+ | + | H+ | + | *L.monocytogenes* | + | 2 | a |
| 2010 | 173 | Maigre de porc | Raw pork meat | - | - | - | - | / | - | 2 | a |
| 2010 | 174 | Jambon frais | Raw pork meat | H- | + | H- | + | *L. welshimeri* | - | 2 | a |
| 2010 | 175 | Jambon de coche | Raw pork meat | H+/H- | + | H+/H- | + | *L.monocytogenes/L.innocua/L.welshimeri* | + | 2 | a |
| 2010 | 177 | Jambon frais | Raw pork meat | H- | + | H- | + | *L. welshimeri* | - | 2 | a |
| 2010 | 179 | Escalope de dinde 414767 | Turkey meat | H+/H- | + | H+/H- | + | *L.monocytogenes/L.welshimeri* | + | 2 | a |
| 2010 | 180 | Escalope de dinde 414768 | Turkey meat | H+ | + | H+ | + | *L.monocytogenes* | + | 2 | a |
| 2010 | 363 | Steak haché surgelé | Frozen ground beef | + | + | + | + | *L.monocytogenes/L.innocua* | + | 2 | a |
| 2010 | 364 | Steak haché surgelé | Frozen ground beef | H+ | + | H+ | + | *L.monocytogenes* | + | 2 | a |
| 2010 | 399 | Steak haché frais façon bouchère | Ground beef | 1col H- | + | H- | + | *L. welshimeri* | - | 2 | a |
| 2010 | 486 | Haché vrac | Ground beef | H- | + | H- | + | *L. welshimeri* | - | 2 | a |
| 2010 | 487 | Haché tradition | Ground beef | - | - | H- | + | *L. welshimeri* | - | 2 | a |
| 2010 | 488 | Viande hachée fraiche pur bœuf | Ground beef | - | - | - | - | / | - | 2 | a |
| 2010 | 497 | Poitrine | Delicatessen | H- | + | H- | + | *L. welshimeri* | - | 2 | a |
| 2010 | 530 | Steak haché 15% | Ground beef | H+ | + | H+ | + | *L.monocytogenes* | + | 2 | a |
| 2010 | 532 | Maigre de veau | Veal meat | - | - | - | - | / | - | 2 | a |
| 2010 | 534 | Minerai agneau | Lamb meat | - | - | H- | + | *L. welshimeri* | - | 2 | a |
| 2010 | 537 | Côtes de porc | Pork meat | H- | + | H- | + | *L. welshimeri* | - | 2 | a |
| 2010 | 538 | Côtelette d'agneau | Lamb meat | - | - | - | - | / | - | 2 | a |
| 2010 | 539 | Minerai de bœuf | Beef meat | H- | + | H- | + | *L. welshimeri* | - | 2 | a |
| 2010 | 542 | Viande de mouton (côte) | Sheep meat | H- | + | H- | + | *L. welshimeri* | - | 2 | a |
| 2010 | 543 | Tranche de gigot | Lamb meat | H- | + | H- | + | *L. welshimeri* | - | 2 | a |
| 2010 | 544 | Escalope de dinde | Turkey meat | H- | + | H- | + | *L. welshimeri* | - | 2 | a |
| 2010 | 546 | Escalope de poulet | Chicken meat | - | - | - | - | / | - | 2 | a |
| 2010 | 547 | Rôti de porc | Pork meat | - | - | - | - | / | - | 2 | a |
| 2010 | 613 | Tranche de gigot d'agneau | **Lam meat** | H- | + | H- | + | *L.innocua* | - | 2 | a |
| 2010 | 614 | Côte première agneau | **Lamb meat** | H- | + | H- | + | *L.innocua* | - | 2 | a |
| 2010 | 615 | Echine de porc | **Pork meat** | H- | + | H- | + | *L.innocua* | - | 2 | a |
| 2010 | 616 | Côte de porc Bio | **Pork meat** | H- | + | H- | + | *L.innocua* | - | 2 | a |
| 2010 | **617** | **Jarret arrière de porc** | **Pork meat** | H+ | + | H+ | + | *L.monocytogenes* | + | 2 | a |
| 2010 | 753 | Viande de porc (côte échine) | Pork meat | H- | + | H- | + | *L. welshimeri* | - | 2 | a |
| 2010 | 754 | Viande bovine (épaule avec os tranchée) | Beef meat | H- | + | H- | + | *L. welshimeri* | - | 2 | a |
| 2010 | 755 | Viande bovine (rumsteck pavé à griller) | Beef meat | H- | + | H- | + | *L. welshimeri* | - | 2 | a |
| 2010 | 756 | Viande bovine (gite noix à bifteck) | Beef meat | H- | + | H- | + | *L. welshimeri* | - | 2 | a |
| 2010 | 757 | Viande de veau (poitrine, collier jarret à blanquette ) sans os | Veal meat | H- | + | H- | + | *L. welshimeri* | - | 2 | a |
| 2010 | 758 | Viande de porc (côte) | Pork meat | H- | + | H- | + | *L. welshimeri* | - | 2 | a |
| 2010 | 759 | Viande de porc (travers) | Pork meat | H- | + | H- | + | *L. welshimeri* | - | 2 | a |
| 2010 | 761 | Steak haché | Ground beef | H- | + | H- | + | *L.innocua* | - | 2 | a |
| 2010 | 2086 | Poulet mariné | Marinated chicken | - | - | - | - | / | - | 2 | b |

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| MEAT PRODUCTS | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Year of analysis | Sample N° | Product (French name) | Product (English name) | Reference method: ISO 11290-1♦ | | | | | | Category | Type |
| | | | | Half Fraser | | Fraser | | Identification | Result *L. monocytogenes* ISO | | |
| | | | | O&A | Palcam | O&A | Palcam | | | | |
| 2010 | 2087 | Brochette | Skewer | H- | + | H- | + | *L.innocua* | - | 2 | b |
| 2010 | 2094 | Travers de porc marinés | Marinated pork meat | - | - | - | - | / | - | 2 | b |
| 2010 | 2096 | Boulettes au bœuf | Beef balls | H- | + | H- | - | *L. welshimeri* | - | 2 | b |
| 2010 | 2097 | Brochettes de coquelet | Cockerel skewer | - | - | H+ | + | *L.monocytogenes* | + | 2 | b |
| 2010 | 167 | Paupinettes | Ready to cook meal | - | - | - | - | / | - | 2 | b |
| 2010 | 169 | Rôti farci aux girolles | Ready to reheat meat | - | - | - | - | / | - | 2 | b |
| 2010 | 176 | Pilon de dinde présalé | Cured turkey meat | H+/H- | + | H+/H- | + | *L.monocytogenes/L.welshimeri* | + | 2 | b |
| 2010 | 178 | Filet de dinde poivré | Turkey meat with pepper | H+/H- | + | H+/H- | + | *L.monocytogenes/L.welshimeri* | + | 2 | b |
| 2010 | 336 | Morceaux de dinde cuite 423383 | Cooked turkey meat | H+ | + | H+ | + | *L.monocytogenes* | + | 2 | b |
| 2010 | 337 | Morceaux de dinde cuite 423381 | Cooked turkey meat | - | - | - | - | / | - | 2 | b |
| 2010 | 362 | Steak aux oignons surgelé | Frozen beef with onions | - | - | - | - | / | - | 2 | b |
| 2010 | 400 | Steak haché bolognaise | Seasoned ground beef | - | - | - | - | / | - | 2 | b |
| 2010 | 489 | Carpaccio pur bœuf | Beef Carpaccio | - | - | - | - | / | - | 2 | b |
| 2010 | 535 | Picada | Picada | H+/H- | + | H+/H- | + | *L.monocytogenes/L.welshimeri* | + | 2 | b |
| 2010 | 545 | Côte de porc Bio | Pork meat | H- | - | H- | + | *L. welshimeri* | - | 2 | b |
| 2010 | 760 | Boulettes au bœuf | Beef balls | - | - | - | - | / | - | 2 | b |
| 2010 | 762 | Magret de canard | Duck meat | H- | + | H- | + | *L. welshimeri* | - | 2 | b |
| 2010 | 806 | Paupiette | Paupiette | - | - | - | - | / | - | 2 | b |
| 2010 | 811 | Foies de poulet confits | Ready to eat chicken liver | - | - | - | - | / | - | 2 | b |
| 2010 | 814 | Petits bâtonnets de poulet | Ready to reheat meal | - | - | - | - | / | - | 2 | b |
| 2010 | 2085 | Merguez | Merguez | H+ | + | H+ | + | *L.monocytogenes* | + | 2 | c |
| 2010 | 2091 | Porc saumuré | Cured pork meat | - | - | - | - | / | - | 2 | c |
| 2010 | 2092 | Saucisse Ardéchoise | Sausage | H+ | + | H+ | + | *L.monocytogenes/L/welshimeri* | + | 2 | c |
| 2010 | 2093 | Lardons fumés | Smoked sliced bacon | - | - | - | - | / | - | 2 | c |
| 2010 | 2129 | Saucisse aux herbes | Sausages with herbs | H- | + | H- | + | *L. welshimeri* | - | 2 | c |
| 2010 | 2138 | Rillettes crues | Raw rillettes | H+ | + | H+ | + | *L.monocytogenes* | + | 2 | c |
| 2010 | 86 | Saucisses aux herbes | Sausages with herbs | 1col H+ | + | H+/H- | + | *L.monocytogenes/L.welshimeri* | + | 2 | c |
| 2010 | 87 | Saucisses ardéchoises | Sausages | H+/H- | + | H+/H- | + | *L.monocytogenes/L.welshimeri* | + | 2 | c |
| 2010 | 168 | Chipolatas | Sausages | - | - | - | - | / | - | 2 | c |
| 2010 | 171 | Chair à saucisse | Meat for sausage | - | - | - | - | / | - | 2 | c |
| 2010 | 172 | Museau | Delicatessen | - | - | - | - | / | - | 2 | c |
| 2010 | 490 | Salami | Salami | - | - | - | - | / | - | 2 | c |
| 2010 | 496 | Charcuterie | Delicatessen | - | - | - | - | / | - | 2 | c |
| 2010 | 528 | Merguez 1 | Merguez | H+/H- | + | H+/H- | + | *L.monocytogenes/L.welshimeri* | + | 2 | c |
| 2010 | 529 | Merguez 2 | Merguez | H- | + | H- | + | *L.monocytogenes/L.welshimeri* | + | 2 | c |
| 2010 | 531 | Chipolatas | Sausages | H+/H- | + | H- | + | *L.monocytogenes/L.welshimeri* | + | 2 | c |
| 2010 | 533 | Chair tradition | Meat for sausage | H+/H- | + | H- | + | *L.monocytogenes/L.welshimeri* | + | 2 | c |
| 2010 | 536 | Saucisses aux herbes | Sausages with herbs | H+/H- | + | H+/H- | + | *L.monocytogenes/L.welshimeri* | + | 2 | c |
| 2010 | 540 | Saucisses aux herbes | Sausages with herbs | H- | + | H- | + | *L. welshimeri* | - | 2 | c |
| 2010 | **619** | **Andouille** | **Delicatessen** | H+ | + | H+ | + | *L.monocytogenes* | + | 2 | c |
| 2010 | **620** | **Tripes à la Bretonne** | **Delicatessen** | H+ | + | H+ | + | *L.monocytogenes* | + | 2 | c |
| 2010 | 621 | Lardons fumés | Smoked bacon | H- | + | H- | + | *L. welshimeri* | - | 2 | c |
| 2010 | 805 | Fricadelles | Fricadelles | - | - | - | - | / | - | 2 | c |
| 2018 | 5458 | Saucisson sec en tranche | Dry sausage | - | - | st | - | / | - | 2 | c |
| 2018 | 5459 | Tapas fuet d'olo | Delicatessen sausage | - | - | st | - | / | - | 2 | c |
| 2018 | 5460 | Salami fumé | Smoked salami | st | - | st | st | / | - | 2 | c |
| 2018 | 5461 | Jambon de Paris | Ham | st | st | st | st | / | - | 2 | c |

| DAIRY PRODUCTS | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
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| | | | | Half Fraser | | Fraser | | Identification | Result *L. monocytogenes* ISO | | |
| | | | | O&A | Palcam | O&A | Palcam | | | | |
| 2009 | 182 | Lait cru N°15 | Raw milk | - | - | - | - | / | - | 3 | a |
| 2009 | 183 | Lait cru N°16 | Raw milk | - | - | - | - | / | - | 3 | a |
| 2009 | 184 | Lait cru N°17 | Raw milk | - | - | - | - | / | - | 3 | a |
| 2009 | 185 | Lait cru | Raw milk | - | - | - | - | / | - | 3 | a |
| 2009 | 217 | Lait cru | Raw milk | - | - | - | - | / | - | 3 | a |
| 2009 | 352 | Lait cru de brebis N°10 | Raw ewe milk | H+ | + | H+ | + | *L.monocytogenes* | + | 3 | a |
| 2009 | 353 | Lait cru de brebis N°11 | Raw ewe milk | H+ | + | H+ | + | *L.monocytogenes* | + | 3 | a |
| 2009 | 473 | Lait cru de vache T61 | Raw cow milk | - | - | - | - | / | - | 3 | a |
| 2009 | 474 | Lait cru de vache T62 | Raw cow milk | H-(NC) | - | - | - | / | - | 3 | a |
| 2009 | 475 | Lait cru de vache T63 | Raw cow milk | - | + | - | + | *L.seeligeri* | - | 3 | a |
| 2009 | 476 | Lait cru de vache T64 | Raw cow milk | - | - | - | - | / | - | 3 | a |
| 2009 | 477 | Lait cru de vache T71 | Raw cow milk | - | - | - | - | / | - | 3 | a |
| 2009 | 478 | Lait cru de vache T72 | Raw cow milk | H- | + | H+ | + | *L.monocytogenes* | + | 3 | a |
| 2009 | 479 | Lait cru de vache T73 | Raw cow milk | - | - | - | - | / | - | 3 | a |
| 2009 | 480 | Lait cru de vache T74 | Raw cow milk | H- | + | H- | + | *L.innocua* | - | 3 | a |
| 2009 | 481 | Lait cru de vache T75 | Raw cow milk | H- | + | H- | + | *L. innocua* | - | 3 | a |
| 2009 | 482 | Lait cru de vache T76 | Raw cow milk | H- | + | H- | + | *L.welshimeri ou innocua* | - | 3 | a |
| 2009 | 483 | Lait cru de vache T77 | Raw cow milk | - | - | - | - | / | - | 3 | a |
| 2009 | 484 | Lait cru de vache T81 | Raw cow milk | H+ | + | H+ | + | *L.monocytogenes* | + | 3 | a |
| 2009 | 485 | Lait cru de vache T82 | Raw cow milk | - | - | - | - | / | - | 3 | a |
| 2009 | 1838 | Lait cru | Raw milk | - | - | - | - | / | - | 3 | a |
| 2009 | 1946 | Lait cru | Raw milk | - | - | - | - | / | - | 3 | a |
| 2009 | 1947 | Lait cru | Raw milk | - | +2col | H- | + | *L.seeligeri* | - | 3 | a |
| 2009 | 1948 | Lait cru | Raw milk | - | - | - | - | / | - | 3 | a |
| 2009 | 1949 | Lait cru | Raw milk | - | +1col | - | + | *L.innocua* | - | 3 | a |
| 2009 | 1950 | Lait cru | Raw milk | - | - | - | - | / | - | 3 | a |
| 2009 | 1951 | Lait cru | Raw milk | - | - | - | - | / | - | 3 | a |
| 2014 | 1889 | Lait cru de chèvre | Raw goat milk | - | - | - | - | / | - | 3 | a |
| 2014 | 1890 | Lait cru de chèvre | Raw goat milk | - | - | - | - | / | - | 3 | a |
| 2014 | 1891 | Lait cru de chèvre | Raw goat milk | - | - | - | - | / | - | 3 | a |
| 2014 | 1892 | Lait cru de chèvre | Raw goat milk | - | - | - | - | / | - | 3 | a |
| 2014 | 1893 | Lait cru de chèvre | Raw goat milk | - | - | - | - | / | - | 3 | a |
| 2014 | 1894 | Lait cru de chèvre | Raw goat milk | - | - | - | - | / | - | 3 | a |
| 2014 | 1895 | Lait cru de chèvre | Raw goat milk | - | - | - | - | / | - | 3 | a |
| 2014 | 1896 | Lait cru de vache | Raw cow milk | St | - | St | St | / | - | 3 | a |
| 2014 | 1897 | Lait cru de vache | Raw cow milk | H+ | - | H+ | + | *L. monocytogenes* | + | 3 | a |
| 2014 | 1898 | Lait cru de vache | Raw cow milk | St | + (3) | H- | + | *L. innocua* | - | 3 | a |
| 2014 | 1899 | Lait cru de brebis | Raw ewe milk | H+ | + | H+ | + | *L. monocytogenes* | + | 3 | a |
| 2014 | 1900 | Lait cru de brebis | Raw ewe milk | H+ | + | H+ | + | *L. monocytogenes* | + | 3 | a |
| 2014 | 1901 | Lait cru de brebis | Raw ewe milk | H+ | + | H+ | + | *L. monocytogenes* | + | 3 | a |
| 2014 | 1902 | Lait cru de brebis | Raw ewe milk | H+ | + | H+ | + | *L. monocytogenes* | + | 3 | a |
| 2014 | 1903 | Lait cru de brebis | Raw ewe milk | H+ | + | H+ | + | *L. monocytogenes* | + | 3 | a |
| 2014 | 1904 | Lait cru de brebis | Raw ewe milk | H+ | + | H+ | + | *L. monocytogenes* | + | 3 | a |
| 2014 | 1905 | Lait cru de brebis | Raw ewe milk | H+ | + | H+ | + | *L. monocytogenes* | + | 3 | a |
| 2014 | 1906 | Lait cru de brebis | Raw ewe milk | H+ | + | H+ | + | *L. monocytogenes* | + | 3 | a |
| 2014 | 1907 | Lait cru de brebis | Raw ewe milk | H+ | + | H+ | + | *L. monocytogenes* | + | 3 | a |

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|---|---|---|---|---|---|---|---|---|---|---|---|
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| | | | | Half Fraser | | Fraser | | Identification | Result *L. monocytogenes* ISO | | |
| | | | | O&A | Palcam | O&A | Palcam | | | | |
| 2014 | 1908 | Lait cru de brebis | Raw ewe milk | H+ | + | H+ | + | *L. monocytogenes* | + | 3 | a |
| 2014 | 1909 | Lait cru de brebis | Raw ewe milk | - | - | - | St | / | - | 3 | a |
| 2014 | 1910 | Lait cru de brebis | Raw ewe milk | H+ | + | H+ | + | *L. monocytogenes* | + | 3 | a |
| 2014 | 1911 | Lait cru de vache | Raw cow milk | - | - | - | - | / | - | 3 | a |
| 2014 | 2123 | Lait cru de brebis | Raw ewe milk | H+ | + | H+ | + | *L. monocytogenes* | + | 3 | a |
| 2014 | 2124 | Lait cru de brebis | Raw ewe milk | H+ | + | H+ | + | *L. monocytogenes* | + | 3 | a |
| 2014 | 2125 | Lait cru de brebis | Raw ewe milk | H+/H- | +d | H+ | + | *L. monocytogenes* | + | 3 | a |
| 2014 | 2126 | Lait cru de vache | Raw cow milk | - | - | - | - | / | - | 3 | a |
| 2014 | 2127 | Lait cru de vache | Raw cow milk | - | - | St | - | / | - | 3 | a |
| 2014 | 2128 | Lait cru de vache | Raw cow milk | - | - | - | - | / | - | 3 | a |
| 2014 | 2129 | Lait cru de vache | Raw cow milk | St | - | St | St | / | - | 3 | a |
| 2014 | 2130 | Lait cru de vache | Raw cow milk | St | - | - | - | / | - | 3 | a |
| 2014 | 2131 | Lait cru de vache | Raw cow milk | - | - | St | - | / | - | 3 | a |
| 2014 | 2132 | Lait cru de vache | Raw cow milk | St | St | - | - | / | - | 3 | a |
| 2014 | 2133 | Lait cru de vache | Raw cow milk | St | St | - | - | / | - | 3 | a |
| 2014 | 2134 | Lait cru de vache | Raw cow milk | - | - | - | - | / | - | 3 | a |
| 2014 | 2135 | Lait cru de vache | Raw cow milk | St | St | St | St | / | - | 3 | a |
| 2014 | 2136 | Lait cru de vache | Raw cow milk | - | - | 1H+ | - | NC | - | 3 | a |
| 2014 | 2137 | Lait cru de vache | Raw cow milk | - | - | - | - | / | - | 3 | a |
| 2014 | 2256 | Lait cru de chèvre | Raw goat milk | - | - | - | St | / | - | 3 | a |
| 2014 | 2257 | Lait cru de vache | Raw cow milk | St | - | St | - | / | - | 3 | a |
| 2014 | 2258 | Lait cru de vache | Raw cow milk | - | - | - | St | / | - | 3 | a |
| 2014 | 2259 | Lait cru de brebis | Raw ewe milk | H+ | + | H+ | + | *L. monocytogenes* | + | 3 | a |
| 2014 | 2260 | Lait cru de brebis | Raw ewe milk | 1H- d | - | - | - | NC | - | 3 | a |
| 2014 | 2261 | Lait cru de brebis | Raw ewe milk | - | - | - | - | / | - | 3 | a |
| 2014 | 2262 | Lait cru de brebis | Raw ewe milk | H+ | + | H+ | + | *L. monocytogenes* | + | 3 | a |
| 2014 | 2263 | Lait cru de chèvre | Raw goat milk | H+ | + | H+ | + | *L. monocytogenes* | + | 3 | a |
| 2014 | 2264 | Lait cru de chèvre | Raw goat milk | St | - | - | - | / | - | 3 | a |
| 2014 | 2265 | Lait cru de brebis | Raw ewe milk | - | - | - | - | / | - | 3 | a |
| 2014 | **2338** | **Lait cru de vache** | **Raw cow milk** | H+ | + | H+/H- | + | *L.innocua / L.monocytogenes* | + | 3 | a |
| 2014 | **2339** | **Lait cru de vache** | **Raw cow milk** | St | St | St | St | / | - | 3 | a |
| 2014 | **2340** | **Lait cru de vache** | **Raw cow milk** | St | St | St | St | / | - | 3 | a |
| 2014 | **2341** | **Lait cru de vache** | **Raw cow milk** | H+ | + | H+ | + | *L. monocytogenes* | + | 3 | a |
| 2014 | **2342** | **Lait cru de vache** | **Raw cow milk** | St | St | H+ | + | *L. monocytogenes* | + | 3 | a |
| 2009 | 1435 | Fromage au lait cru de vache | Raw cow milk cheese | H+ | + | H+ | + | *L.monocytogenes* | + | 3 | b |
| 2009 | 1436 | Fromage au lait cru de vache | Raw cow milk cheese | H+ | + | H+ | + | *L.monocytogenes* | + | 3 | b |
| 2009 | 1437 | Fromage au lait cru de vache | Raw cow milk cheese | H+ | + | H+ | + | *L.monocytogenes* | + | 3 | b |
| 2009 | 1438 | Fromage non affiné au lait cru de vache | Raw cow milk cheese | H+ | + | H+ | + | *L.monocytogenes* | + | 3 | b |
| 2009 | 1439 | Fromage non affiné au lait cru de vache | Raw cow milk cheese | H+ | + | H+ | + | *L.monocytogenes* | + | 3 | b |
| 2009 | 1440 | Fromage à pâte molle au lait cru de chèvre | Raw goat milk cheese | - | - | - | - | / | - | 3 | b |
| 2009 | 1441 | Fromage au lait cru de vache | Raw cow milk cheese | H+ | + | H+ | + | *L.monocytogenes* | + | 3 | b |
| 2009 | 1442 | Fromage non affiné au lait cru de vache | Raw cow milk cheese | H+ | + | H+ | + | *L.monocytogenes* | + | 3 | b |
| 2009 | 1443 | Morbier | Raw cow milk cheese | H+ | + | H+ | + | *L.monocytogenes* | + | 3 | b |
| 2009 | 1444 | Brie de Meaux | Raw cow milk cheese | H+ | + | H+ | + | *L.monocytogenes* | + | 3 | b |
| 2009 | 1486 | Gouda | Raw cow milk cheese | - | - | - | - | / | - | 3 | b |
| 2009 | 1627 | Fromage au lait cru Montagnard Bethmale | Raw cow milk cheese | - | - | - | - | / | - | 3 | b |
| 2009 | 1628 | Comté au lait cru | Raw cow milk cheese | - | - | - | - | / | - | 3 | b |
| 2009 | 1629 | Gruyère doux suisse au lait cru | Raw cow milk cheese | - | - | - | - | / | - | 3 | b |

| DAIRY PRODUCTS | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
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| | | | | Half Fraser | | Fraser | | Identification | Result *L. monocytogenes* ISO | | |
| | | | | O&A | Palcam | O&A | Palcam | | | | |
| 2009 | 1630 | Beaufort au lait cru | Raw cow milk cheese | - | - | - | - | / | - | 3 | b |
| 2009 | 1631 | Morbier au lait cru | Raw cow milk cheese | - | - | - | - | / | - | 3 | b |
| 2009 | 1632 | Salers au lait cru | Raw cow milk cheese | - | - | - | - | / | - | 3 | b |
| 2009 | 1633 | Rosettes de tête de moine au lait cru | Raw cow milk cheese | - | - | - | - | / | - | 3 | b |
| 2009 | 1634 | Reblochon au lait cru | Raw cow milk cheese | - | - | - | - | / | - | 3 | b |
| 2009 | 1635 | Fromage au lait cru de chèvre | Raw goat milk cheese | - | - | - | - | / | - | 3 | b |
| 2009 | 1636 | Brie de Meaux | Raw cow milk cheese | - | - | - | - | / | - | 3 | b |
| 2009 | 1637 | Camembert au lait cru | Raw cow milk cheese | - | - | - | - | / | - | 3 | b |
| 2009 | 1638 | Mont d'Or | Raw cow milk cheese | - | - | H- | + | *L.innocua* | - | 3 | b |
| 2009 | 1639 | Roquefort | Raw goat milk cheese | - | - | - | - | / | - | 3 | b |
| 2009 | 1640 | Fromage affiné au lait cru | Raw cow milk cheese | 1col H+ | + | H+ | + | *L.monocytogenes* | + | 3 | b |
| 2009 | 1641 | Fromage à pâte molle au lait cru | Raw cow milk cheese | H+ | - | H+ | + | *L.monocytogenes* | + | 3 | b |
| 2009 | 1643 | Crème fraiche crue | Raw fresh cream | - | + | H- | + | *L.monocytogenes* | + | 3 | b |
| 2009 | 1644 | Crème fraiche crue | Raw fresh cream | - | - | - | - | / | - | 3 | b |
| 2009 | 1828 | Camembert au lait cru | Raw cow milk cheese | H- | + | H- | + | *L.innocua* | - | 3 | b |
| 2009 | **1829** | **Saint Félicien au lait cru** | **Raw milk cheese** | - | - | - | - | / | - | 3 | b |
| 2009 | 1830 | Reblochon au lait cru | Raw cow milk cheese | H-(Cat-) | - | - | - | / | - | 3 | b |
| 2009 | **1833** | **Camembert au lait cru** | **Raw cow milk cheese** | H- | + | H- | + | *L.monocytogenes* | + | 3 | b |
| 2009 | **1834** | **Saint Félicien au lait cru** | **Raw milk cheese** | - | - | H- | + | *L.innocua* | - | 3 | b |
| 2009 | **1837** | **Crottin de Chavignol** | **Raw goat milk cheese** | - | - | - | - | / | - | 3 | b |
| 2009 | 1839 | Camembert au lait cru | Raw cow milk cheese | - | - | - | - | / | - | 3 | b |
| 2009 | **1840** | **Petit Normand au lait cru** | **Raw cow milk cheese** | - | - | - | - | / | - | 3 | b |
| 2009 | 1938 | Fromage non affiné au lait cru | Raw milk cheese | H+ | + | H+ | + | *L.monocytogenes* | + | 3 | b |
| 2009 | 1939 | Fromage non affiné au lait cru | Raw milk cheese | H+ | + | H+ | + | *L.monocytogenes* | + | 3 | b |
| 2009 | 1940 | Fromage non affiné au lait cru | Raw milk cheese | H+ | + | H+ | + | *L.monocytogenes* | + | 3 | b |
| 2009 | 1941 | Fromage non affiné au lait cru | Raw milk cheese | H+ | + | H+ | + | *L.monocytogenes/L.innocua* | + | 3 | b |
| 2009 | 1942 | Fromage au lait cru | Raw milk cheese | H+ | + | H+ | + | *L.monocytogenes* | + | 3 | b |
| 2009 | 1943 | Fromage au lait cru | Raw milk cheese | - | - | - | - | / | - | 3 | b |
| 2009 | 1944 | Emmental | Cheese | - | - | - | - | / | - | 3 | b |
| 2009 | 1945 | Fromage à tartiflette | Cheese | - | - | - | - | / | - | 3 | b |
| 2009 | 1952 | Fromage au lait cru | Raw milk cheese | - | - | - | - | / | - | 3 | b |
| 2009 | 1953 | Petit Pont l'evêque | Raw milk cheese | - | - | - | - | / | - | 3 | b |
| 2009 | 1642 | Beurre de baratte | Butter | - | - | - | - | / | - | 3 | c |
| 2009 | 1831 | Lait Ribot | Fermented milk | - | - | - | - | / | - | 3 | c |
| 2009 | 1832 | Lait en poudre | Milk powder | 4col H- | - | H- | + | *L.innocua* | - | 3 | c |
| 2009 | **1835** | **Lait ribot** | **Fermented milk** | - | - | - | - | / | - | 3 | c |
| 2009 | **1836** | **Lait en poudre écrémé** | **Skimmed milk powder** | - | - | - | - | / | - | 3 | c |
| 2009 | 1841 | Crème fraîche | Fresh cream | - | - | H- | + | *L.seeligeri* | - | 3 | c |
| 2009 | **1842** | **Crème fraîche** | **Fresh cream** | H+ | 1col | H+ | + | *L.monocytogenes* | + | 3 | c |
| 2009 | 1843 | Faisselle | Fermented milk | - | - | - | - | / | - | 3 | c |
| 2009 | **1844** | **Faisselle** | **Fermented milk** | - | - | - | - | / | - | 3 | c |
| 2009 | **1845** | **Gros lait fermier** | **Fermented milk** | - | - | - | - | / | - | 3 | c |
| 2009 | 1846 | Gros lait fermier | Fermented milk | H- | 3col | H- | + | *L.seeligeri* | - | 3 | c |
| 2009 | **1847** | **Lait Ribot** | **Fermented milk** | - | - | - | - | / | - | 3 | c |
| 2009 | 1848 | Lait Ribot | Fermented milk | H- | + | H- | + | *L.innocua* | - | 3 | c |
| 2009 | **1849** | **Lait entier en poudre** | **Milk powder** | H+ | + | H+ | + | *L.monocytogenes* | + | 3 | c |
| 2009 | 1850 | Lait entier en poudre | Milk powder | H- | + | H- | + | *L.innocua* | - | 3 | c |
| 2009 | 1851 | Lait pour nourrissons | Infant formula milk powder | H- | + | - | + | *L.innocua* | - | 3 | c |

| DAIRY PRODUCTS | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
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| | | | | Half Fraser | | Fraser | | Identification | Result *L. monocytogenes* ISO | | |
| | | | | O&A | Palcam | O&A | Palcam | | | | |
| 2009 | **1852** | **Lait pour nourrissons** | **Infant formula milk powder** | - | - | - | - | / | - | 3 | c |
| 2009 | **1853** | **Poudre de lait RAEMA 125345** | **Milk powder** | H+ | + | H+ | + | *L.monocytogenes* | + | 3 | c |
| 2009 | **1854** | **Poudre de lait RAEMA 791317** | **Milk powder** | H+ | + | H+ | + | *L.monocytogenes* | + | 3 | c |
| 2009 | 1855 | Lait en poudre | **Milk powder** | - | - | - | - | / | - | 3 | c |
| 2018 | **4471** | **Fromage de chèvre pasteurisé** | **Pasteurised goat cheese** | - | - | st | st | / | - | 3 | c |
| 2018 | **4472** | **Emmental français pasteurisé** | **Pasteurised emmental cheese** | - | - | - | - | / | - | 3 | c |
| 2018 | **4473** | **Camembert au lait pasteurisé** | **Pasteurised** | - | - | st | st | / | - | 3 | c |
| 2018 | **5027** | **Panna cotta coulis framboise** | **Panna cotta** | H+ | + | H+ | + | *L. monocytogenes* | + | 3 | c |
| 2018 | **5028** | **Panna cotta mûre et cassis** | **Panna cotta** | H+ | + | H+ | + | *L. monocytogenes* | + | 3 | c |
| 2018 | **5029** | **Riz au lait saveur vanille** | **Rice pudding** | H+ | + | H+ | + | *L. monocytogenes* | + | 3 | c |

| VEGETABLES | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Year of analysis | Sample N° | Product (French name) | Product (English name) | Reference method: ISO 11290-1♦ | | | | | | Category | Type |
| | | | | Half Fraser | | Fraser | | Identification | Result *L. monocytogenes* ISO | | |
| | | | | O&A | Palcam | O&A | Palcam | | | | |
| 2010 | 2030 | Persil frisé | Parsley | H- | - | - | - | -(gram-) | - | 4 | a |
| 2010 | 170 | Persillé broyé | Delicatessen | H+ | + | H+ | + | *L.monocytogenes* | + | 4 | a |
| 2010 | 492 | Champignons | Mushrooms | H- | + | H- | + | *L.monocytogenes/L.innocua* | + | 4 | a |
| 2010 | 494 | Légumes | Vegetables | - | - | H+ | + | *L.monocytogenes* | + | 4 | a |
| 2010 | 551 | Mâche | Mash | - | - | - | - | / | - | 4 | a |
| 2010 | 552 | Laitue craquante | Lettuce | - | - | - | - | / | - | 4 | a |
| 2010 | 553 | Chou blanc | White cabbage | - | - | - | - | / | - | 4 | a |
| 2010 | 554 | Poireau | Link | - | - | - | - | / | - | 4 | a |
| 2010 | 555 | Endives | Endives | - | - | - | - | / | - | 4 | a |
| 2010 | 556 | Cœur de frisée | Salad | - | - | - | - | / | - | 4 | a |
| 2010 | 557 | Feuilles de chêne blonde et rouge | Salad | - | - | - | - | / | - | 4 | a |
| 2010 | 558 | Batavia | Salad | - | - | - | - | / | - | 4 | a |
| 2010 | **901** | **Choux de Bruxelles** | **Brussels sprouts** | H+ | + | H+ | + | *L.monocytogenes* | + | 4 | a |
| 2010 | **902** | **Laitue Romaine** | **Lettuce** | H+ | + | H+ | + | *L.monocytogenes* | + | 4 | a |
| 2010 | **905** | **Mâche** | **Mash** | H+ | + | H+ | + | *L.monocytogenes* | + | 4 | a |
| 2010 | **906** | **Endives** | **Endives** | H+ | + | H+ | + | *L.monocytogenes* | + | 4 | a |
| 2010 | **907** | **Chou rouge** | **Red cabbage** | H+ | + | H+ | + | *L.monocytogenes* | + | 4 | a |
| 2010 | **908** | **Brocolis** | **Broccolis** | H+ | + | H+ | + | *L.monocytogenes* | + | 4 | a |
| 2010 | **909** | **Chou Chinois** | **Chinese cabbage** | H+ | + | H+ | + | *L.monocytogenes* | + | 4 | a |
| 2018 | 5462 | Courgette | Zucchini | - | - | - | - | / | - | 4 | a |
| 2018 | 5463 | Poireaux | Leeks | - | - | - | - | / | - | 4 | a |
| 2010 | 2012 | Frites surgelées | Frozen fries | - | - | - | - | / | - | 4 | b |
| 2010 | 2013 | Poivrons verts émincés surgelés | Frozen green sliced peppers | - | - | - | - | / | - | 4 | b |
| 2010 | 2015 | Poivrons verts en cubes surgelés | Frozen green peppers | - | - | - | - | / | - | 4 | b |
| 2010 | 2017 | Oignons préfrits | Fried onions | - | - | - | - | / | - | 4 | b |
| 2010 | 2018 | Brocolis surgelés | Frozen broccolis | H- | - | - | - | - | - | 4 | b |
| 2010 | 2020 | Poivrons rouges en cubes surgelés | Frozen red peppers | - | - | - | - | / | - | 4 | b |
| 2010 | 2021 | Pommes rissolées surgelées | Frozen fried apples | - | - | - | - | / | - | 4 | b |
| 2010 | 2025 | Cubes de poivrons rouges surgelés | Frozen red peppers | - | - | - | - | / | - | 4 | b |
| 2010 | 2029 | Pommes frites surgelées | Frozen fries | - | - | - | - | / | - | 4 | b |
| 2010 | **911** | **Champignons de Paris surgelés** | **Frozen mushrooms** | H- | + | H- | + | *L.innocua* | - | 4 | b |
| 2010 | **912** | **Mélange de légumes pour ratatouille surgelés** | **Vegetables mix** | H+ | + | H+ | + | *L.monocytogenes* | + | 4 | b |
| 2010 | **913** | **Poêlée de légumes surgelés** | **Frozen vegetables mix** | H+ | + | H+ | + | *L.monocytogenes* | + | 4 | b |
| 2010 | **914** | **Poireaux émincés surgelés** | **Frozen sliced links** | - | - | - | - | / | - | 4 | b |
| 2010 | **915** | **Choux-fleurs surgelés** | **Frozen cauliflower** | H+ | + | H+ | + | *L.monocytogenes* | + | 4 | b |
| 2010 | **916** | **Mélange de légumes surgelés** | **Frozen vegetables mix** | H+ | + | H+ | + | *L.monocytogenes* | + | 4 | b |
| 2010 | 941 | Poêlée romaine surgelée | Frozen vegetables mix | H- | + | H- | + | *L.seeligeri* | - | 4 | b |
| 2010 | 942 | Poêlée asiatique surgelée | Frozen vegetables mix | H- | + | H- | + | *L.seeligeri /L.innocua* | - | 4 | b |
| 2018 | 4323 | Poivrons congelés | Frozen peppers | st | st | - | - | / | - | 4 | b |
| 2018 | **4474** | **7 légumes variés surgelés** | **Frozen vegetables mix** | - | - | - | - | / | - | 4 | b |
| 2018 | **4475** | **7 légumes variés surgelés** | **Frozen vegetables mix** | - | - | - | - | / | - | 4 | b |
| 2018 | **4476** | **Poêlée champêtre surgelée** | **Frozen vegetables mix** | H+/H-d (NC) | +d | H+ | + | *L. monocytogenes* | + | 4 | b |
| 2018 | **4477** | **Poêlée champêtre surgelée** | **Frozen vegetables mix** | H-d (NC) | - | H-d (NC) | - | / | - | 4 | b |
| 2018 | **4478** | **Julienne de légumes surgelée** | **Frozen vegetables mix** | H+ | + | H+ | + | *L. monocytogenes* | + | 4 | b |
| 2018 | **4479** | **Julienne de légumes surgelée** | **Frozen vegetables mix** | H+ | + | H+ | + | *L. monocytogenes* | + | 4 | b |
| 2018 | **4480** | **Légumes pour potager bio surgelés** | **Frozen vegetables mix** | H-d (NC) | - | H-d (NC) | - | / | - | 4 | b |

♦ Analyses performed according to the COFRAC accreditation

| VEGETABLES | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Year of analysis | Sample N° | Product (French name) | Product (English name) | Reference method: ISO 11290-1♦ | | | | | | Category | Type |
| | | | | Half Fraser | | Fraser | | Identification | Result *L. monocytogenes* ISO | | |
| | | | | O&A | Palcam | O&A | Palcam | | | | |
| 2010 | 2016 | Pommes de terre cuisinées à la graisse de canard | Cooked potatoes | - | - | - | - | / | - | 4 | c |
| 2010 | 2026 | Epinards en branches à la crème fraiche surgelés | Frozen spinach with cream | H+ | + | H+ | + | *L.monocytogenes* | + | 4 | c |
| 2010 | 559 | Carottes râpées | Sliced carrots | - | - | - | - | / | - | 4 | c |
| 2010 | **903** | **Légumes vapeur** | **Cooked vegetables** | H+/H- | + | H+/H- | + | *L.monocytogenes* | + | 4 | c |
| 2010 | **904** | **Julienne de carottes** | **Sliced carrots** | - | - | - | - | / | - | 4 | c |
| 2010 | 1049 | Macédoine de légumes | Deli salad | - | - | - | - | / | - | 4 | c |
| 2018 | 4319 | Mélange de 4 légumes | Frozen vegetable mix | H+/H- | + | H+/H- | + | *L. monocytogenes / L. innocua* | + | 4 | c |
| 2018 | 4320 | Champignons coupés | Frozen mushrooms | st | - | st | - | / | - | 4 | c |
| 2018 | 4321 | Ecrasé de pommes de terre et patates douces | RTRH Purée | st | - | - | - | / | - | 4 | c |
| 2018 | 4324 | Pommes de terre au beurre | RTRH potatoes with butter | H+ | + | H+ | + | *L. monocytogenes* | + | 4 | c |
| 2018 | **4381** | **Carottes nantaises** | **RTRH carrots** | st | st | st | st | / | - | 4 | c |
| 2018 | **4382** | **Mélange de crudités** | **RTE vegetables mix** | st | st | st | st | / | - | 4 | c |
| 2018 | **4383** | **Mélange de crudités** | **RTE vegetables mix** | st | st | st | st | / | - | 4 | c |
| 2018 | **4384** | **Wok asiatique** | **RTRH vegetables mix (for wok)** | st | st | st | st | / | - | 4 | c |
| 2018 | **4385** | **Nugget soja blé légumes** | **Vegetables nuggets** | H+ | - | H+ | + | *L. monocytogenes* | + | 4 | c |
| 2018 | **4386** | **Boulette carotte petits pois blé** | **Vegetables balls** | - | - | H+ | + | *L. monocytogenes / L. welshimeri* (P2) | + | 4 | c |
| 2018 | **4387** | **Couscous végan méditerranéen** | **Vegetable couscous** | H+ | + | H+ | + | *L. monocytogenes* | + | 4 | c |
| 2018 | **4388** | **Galette poireaux boulgour** | **RTRH vegetables cake** | H-d (NC) | - | - | - | / | - | 4 | c |
| 2018 | **4389** | **Fallafel pois chiches fève coriandre menthe** | **Vegetables falafels** | H+ | - | H+ | + | *L. monocytogenes* | + | 4 | c |
| 2018 | 04975 | Mélange crudités (chou blanc, radis, carottes) | RTE vegetables (cabbage, radish, carrots) | - | st | st | - | / | - | 4 | c |
| 2018 | 04976 | Wok maraicher (carottes, poireaux, céleris) | RTRH vegetables mix (carrot, leek, celery) | st | st | st | st | / | - | 4 | c |
| 2018 | 04977 | Concombre à la crème | RTE cucumber with cream | - | - | - | - | / | - | 4 | c |
| 2018 | 04978 | Macédoine de légumes avec mayonnaise | Macedoine | - | - | - | - | / | - | 4 | c |
| 2018 | 04979 | Coleslaw | Coleslaw | st | st | st | - | / | - | 4 | c |
| 2018 | 04980 | Carottes râpées | Sliced carrots | st | - | - | - | / | - | 4 | c |
| 2018 | 04981 | Macédoine de légumes avec mayonnaise | Macedoine | st | - | - | - | / | - | 4 | c |

| FISHERY PRODUCTS | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
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| | | | | Half Fraser | | Fraser | | Identification | Result *L. monocytogenes* ISO | | |
| | | | | O&A | Palcam | O&A | Palcam | | | | |
| 2010 | 2054 | Steak de thon | Tuna | H+ | + | H+ | + | *L.monocytogenes* | + | 5 | a |
| 2010 | 2056 | Filet de panga | Fish fillet | H+ | + | H+ | + | *L.monocytogenes* | + | 5 | a |
| 2010 | 2061 | Filet de Raie | Skate fillet | - | - | - | - | / | - | 5 | a |
| 2010 | 2062 | Pulpe de saumon crue | Raw salmon pulp | H+ | + | H+ | + | *L.monocytogenes* | + | 5 | a |
| 2010 | 2064 | Filet de Panga | Panag fillet | H+ | + | H+ | + | *L.monocytogenes* | + | 5 | a |
| 2010 | 88 | Filet de lieu jaune | Fish fillet | - | - | - | - | - | - | 5 | a |
| 2010 | 90 | Saumon | salmon | - | - | - | - | - | - | 5 | a |
| 2010 | 211 | Filet de saumon frais | Salmon fillet | H+ | + | H+ | + | *L.monocytogenes* | + | 5 | a |
| 2010 | 213 | Saumon | Salmon | - | - | - | - | / | - | 5 | a |
| 2010 | 215 | Filet de poisson cru | Raw fish fillet | - | - | - | - | / | - | 5 | a |
| 2010 | 242 | Filet de poisson cru congelé | Frozen raw fish fillet | H+ | + | H+ | - | *L.monocytogenes* | + | 5 | a |
| 2010 | 243 | Filet de poisson cru congelé | Frozen raw fish fillet | H+ | + | H+ | - | *L.monocytogenes* | + | 5 | a |
| 2010 | 354 | Saumon élevé en Ecosse | Salmon | H+ | + | H+ | + | *L.monocytogenes* | + | 5 | a |
| 2010 | 654 | Filet de saumon | Salmon fillet | - | - | - | - | / | - | 5 | a |
| 2010 | 655 | Filet de bar | Bass fillet | - | - | - | + | *L.innocua* | - | 5 | a |
| 2010 | 895 | Pavé de daurade | Sea bream | - | - | - | - | / | - | 5 | a |
| 2010 | 896 | Steak de thon | Tuna | - | - | - | - | / | - | 5 | a |
| 2010 | 897 | Seiches entières | Cuttelfish | - | - | - | - | / | - | 5 | a |
| 2010 | 899 | Filet de sole tropicale | Fish fillet | - | - | - | - | / | - | 5 | a |
| 2010 | 900 | Filets de colin d'Alaska | Fish fillet | - | - | - | - | / | - | 5 | a |
| 2010 | **920** | **Steak de thon surgelé** | **Frozen tuna** | H+ | + | H+ | + | *L.monocytogenes* | + | 5 | a |
| 2010 | 923 | Filet de colin surgelé | Frozen fish fillet | - | - | - | - | / | - | 5 | a |
| 2010 | 926 | Filet de Julienne | Fish fillet | H- | + | H- | + | *L.innocua* | - | 5 | a |
| 2010 | 927 | Filet de Merlan | Whiting fillet | H- | + | H- | + | *L.innocua* | - | 5 | a |
| 2010 | 932 | Queues d'écrevisses | Crayfish | - | - | H- | + | *L.innocua* | - | 5 | a |
| 2010 | 933 | Crevettes roses | Shrimps | H- | + | H- | + | *L.innocua* | - | 5 | a |
| 2010 | 939 | Maquereau | Mackerel | H- | + | H- | + | *L.innocua* | - | 5 | a |
| 2010 | 940 | Pavé de dorade surgelé | Frozen sea bream | H- | + | H- | + | *L.seeligeri* | - | 5 | a |
| 2010 | 2051 | Saumon fumé | Smoked salmon | H+ | + | H+ | + | *L.monocytogenes* | + | 5 | b |
| 2010 | 2058 | Cubes de saumon fumé | Smoked salmon | - | - | H+ | + | *L.monocytogenes* | + | 5 | b |
| 2010 | 2172 | Chutes de saumon fumé | Smoked salmon pieces | H- | - | - | - | - (gram-) | - | 5 | b |
| 2010 | 83 | Chutes de saumon fumé | Smoked salmon pieces | - | - | - | - | - | - | 5 | b |
| 2010 | 210 | Saumon fumé | Smoked salmon | - | - | - | - | / | - | 5 | b |
| 2010 | 214 | Saumon fumé Ecosse | Smoked salmon | H+ | + | H+ | + | *L.monocytogenes* | + | 5 | b |
| 2010 | 355 | Saumon fumé de Norvège Lot 9467C | Smoked salmon | H+ | + | H+ | + | *L.monocytogenes* | + | 5 | b |
| 2010 | 356 | Saumon fumé de Norvège Lot 9467A | Smoked salmon | - | - | - | - | / | - | 5 | b |
| 2010 | 357 | Saumon Atlantique fumé | Smoked salmon | - | - | - | - | / | - | 5 | b |
| 2010 | 358 | Thon fumé A | Smoked tuna | - | - | - | - | / | - | 5 | b |
| 2010 | 359 | Thon fumé B | Smoked tuna | - | - | - | - | / | - | 5 | b |
| 2010 | 360 | Haddock | Haddock | - | - | - | - | / | - | 5 | b |
| 2010 | 361 | Saumon de Norvège fumé au bois de hêtre | Smoked salmon | - | +(1col) | - | - | *L.monocytogenes* | + | 5 | b |
| 2010 | 888 | Thon germon fumé | Smoked tuna | - | - | - | - | / | - | 5 | b |
| 2010 | 889 | Haddock fumé | Haddock | - | - | - | - | / | - | 5 | b |
| 2010 | 890 | Filets de maquereaux fumés | Smoked mackerel | - | - | - | - | / | - | 5 | b |
| 2010 | **919** | **Filet de Maquereaux fumés au poivre** | **Somed peppered mackerel** | H+ | + | H+ | + | *L.monocytogenes* | + | 5 | b |
| 2010 | 935 | Haddock fumé | Smoked haddock | H- | + | H- | + | *L.seeligeri* | - | 5 | b |

♦ Analyses performed according to the COFRAC accreditation

| FISHERY PRODUCTS | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Year of analysis | Sample N° | Product (French name) | Product (English name) | Reference method: ISO 11290-1♦ | | | | | | Category | Type |
| | | | | Half Fraser | | Fraser | | Identification | Result *L. monocytogenes* ISO | | |
| | | | | O&A | Palcam | O&A | Palcam | | | | |
| 2010 | 936 | Thon germon fumé | Smoked tuna | H- | +2col | H- | + | *L.seeligeri* | - | 5 | b |
| 2018 | **4481** | **Harengs fumés** | **Smoked herring** | - | st | st | st | / | - | 5 | b |
| 2018 | **4482** | **Filet de maquereaux fumés au bois de hêtre** | **Smoked mackerel** | - | st | - | - | / | - | 5 | b |
| 2018 | 4483 | Mini tranches de truite fumée | Smoked trout | H- | + | H- | + | *L. welshimeri* | - | 5 | b |
| 2010 | 2052 | Tartare de saumon | Salmon tartar | H+ | + | H+ | + | *L.monocytogenes* | + | 5 | c |
| 2010 | 2053 | Filet de poisson meunière | Cooked fish fillet | H+ | + | H+ | + | *L.monocytogenes* | + | 5 | c |
| 2010 | 2055 | Moules | Mussels | H+ | + | H+ | + | *L.monocytogenes* | + | 5 | c |
| 2010 | 2057 | Moules décortiquées | Cooked mussels | H+/H- | - | H+/H- | + | *L.monocytogenes/L.innocua* | + | 5 | c |
| 2010 | 2059 | Panée de filet de cabillaud | Cod fillet | + | + | H+/H- | + | *L.monocytogenes/L.innocua* | + | 5 | c |
| 2010 | 2060 | Calamars à la Romaine | Cooked calmar | H+/H- | + | H+/H- | + | *L.monocytogenes/L.innocua* | + | 5 | c |
| 2010 | 2063 | Cocktail de fruits de mer | Seafood cocktail | - | - | - | - | / | - | 5 | c |
| 2010 | 2065 | Croquettes de poisson | Fish balls | H+ | + | H+ | + | *L.monocytogenes* | + | 5 | c |
| 2010 | 2069 | Filets de limande meunière | Cooked dab fillet | - | - | - | - | / | - | 5 | c |
| 2010 | 491 | Cocktail de fruits de mer | Seafood cocktail | - | - | - | - | / | - | 5 | c |
| 2010 | 891 | Crevettes cuites marinées | Cooked marinated shrimps | - | - | - | - | / | - | 5 | c |
| 2010 | 892 | Moules cuisinées à la persillade | Cooked mussels | - | - | - | - | / | - | 5 | c |
| 2010 | 893 | Timbale de Saint Jacques | Cooked scallops | - | - | - | - | / | - | 5 | c |
| 2010 | 894 | Bâtonnets de surimi au crabe | Surimi | - | - | - | - | / | - | 5 | c |
| 2010 | 898 | Croquettes de poisson panées | Fish balls | - | - | - | - | / | - | 5 | c |
| 2010 | **918** | **Bâtonnets de surimi surgelés** | **Frozen surimi** | H+ | + | H+ | + | *L.monocytogenes* | + | 5 | c |
| 2010 | **921** | **Croquettes de poisson panés ail et fines herbes surgelées** | **Fish balls** | H+ | + | H+ | + | *L.monocytogenes* | + | 5 | c |
| 2010 | **922** | **Moules cuisinées à la persillade** | **Cooked mussels** | H+ | + | H+ | + | *L.monocytogenes* | + | 5 | c |
| 2010 | 928 | Crevettes cuites marinées ail et aromates de la mer | Cooked marinated shrimps | H- | + | H- | + | *L.innocua* | - | 5 | c |
| 2010 | 929 | Rillettes au crabe | Cooked crab (rillettes) | 1col H+ | +1col | H- | + | *L. welshimeri* | - | 5 | c |
| 2010 | 930 | Rillettes de thon au sel de Guérande | Cooked tuna (Rilletes) | H- | - | H- | + | *L. welshimeri* | - | 5 | c |
| 2010 | 931 | Tarama aux œufs de truite | Trout tarama | H- | + | H- | + | *L. welshimeri* | - | 5 | c |
| 2010 | 934 | Timbale de Saint Jacques | Cooked scallops | - | - | - | - | / | - | 5 | c |
| 2010 | 937 | Moules cuisinées à la marinière | Cooked mussels | - | - | - | - | / | - | 5 | c |
| 2010 | 938 | Terrine aux noix de Saint Jacques | Scallops terrine | - | - | - | - | / | - | 5 | c |

| ENVIRONMENTAL SAMPLES | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Year of analysis | Sample N° | Product (French name) | Product (English name) | Reference method: ISO 11290-1♦ | | | | | | Category | Type |
| | | | | Half Fraser | | Fraser | | Identification | Result *L. monocytogenes* ISO | | |
| | | | | O&A | Palcam | O&A | Palcam | | | | |
| 2018 | **4485** | **Eau de rinçage (industrie de poissons)** | **Rinse water (Fish industry)** | H+ | + | H+ | + | *L. monocytogenes* | + | 6 | a |
| 2018 | **4486** | **Eau de rinçage (industrie de poissons)** | **Rinse water (Fish industry)** | st | st | st | st | / | - | 6 | a |
| 2018 | **4487** | **Eau de process (cutter découpe saumon fumé, industrie de poissons)** | **Rinse water (Fish industry)** | st | st | st | st | / | - | 6 | a |
| 2018 | **6077** | **Eau de rinçage du réseau (process) (industrie laitière)** | **Rinse water (Dairy industry)** | H+ | + | H+ | + | *L. monocytogenes* | + | 6 | a |
| 2018 | **6078** | **Eau de rinçage (industrie de la viande)** | **Rinse water (Meat Industry)** | H+ | + | H+ | + | *L. monocytogenes* | + | 6 | a |
| 2018 | **6079** | **Eau de process (industrie de la viande)** | **Process water (Meat Industry)** | H+ | + | H+ | + | *L. monocytogenes* | + | 6 | a |
| 2018 | **6080** | **Eau épileuse (industrie de la viande)** | **Process water (Meat Industry)** | - | - | - | - | / | - | 6 | a |
| 2018 | **6081** | **Eau fin de rinçage circuit concentrateur (industrie laitière)** | **Rinse water (Industry of milk)** | H+ | + | H+ | + | *L. monocytogenes* | + | 6 | a |
| 2018 | **6082** | **Eau de lavage (industrie laitière)** | **Washing water (Industry of milk)** | - | st | - | st | / | - | 6 | a |
| 2018 | **6083** | **Eau de rinçage mixeur noisette pour pâte à tartiner** | **Rinse water (production of chocolate spread)** | st | st | - | - | / | - | 6 | a |
| 2018 | **6084** | **Eau de rinçage saucisse végétale** | **Rinse water (vegetable sausage)** | H+ | + | H+ | + | *L. monocytogenes* | + | 6 | a |
| 2018 | **6085** | **Eau de lavage cutter (industrie du poisson)** | **Washing water (Fish industry)** | H+ | + | H+ | + | *L. monocytogenes* | + | 6 | a |
| 2018 | **6086** | **Eau de process saumon (industrie du poisson)** | **Process water (Fish Industry)** | H+ | + | H+ | + | *L. monocytogenes* | + | 6 | a |
| 2018 | **6087** | **Eau de rinçage (industrie du poissons)** | **Rinse water (Fish industry)** | st | st | - | - | / | - | 6 | a |
| 2018 | **6088** | **Eau de process épineuse (industrie du poisson)** | **Process water (Fish Industry)** | H+ | + | H+ | + | *L. monocytogenes* | + | 6 | a |
| 2018 | **6089** | **Eau de process fileteuse (industrie du poisson)** | **Process water (Fish Industry)** | H+ | + | H+ | + | *L. monocytogenes* | + | 6 | a |
| 2018 | **6090** | **Eau de process épileuse démarrage (industrie de la viande)** | **Process water (Meat Industry)** | H+(3) | - | H+ | + | *L. monocytogenes* | + | 6 | a |
| 2018 | 6382 | Eau laverie | Washing water | st | st | st | st | / | - | 6 | a |
| 2018 | 6383 | Eau de nettoyage | Rinse water | H- | + | H- | + | *L. innocua* | - | 6 | a |
| 2018 | 6384 | Eau de siphon | Washing water | st | st | st | st | / | - | 6 | a |
| 2018 | **6091** | **Eponge égout devant tunnel de raidissage (industrie de la viande)** | **Sponge (Meat industry)** | H+ | + | H+ | + | *L. monocytogenes* | + | 6 | b |
| 2018 | **6092** | **Eponge égout tartares (industrie de la viande)** | **Sponge (Meat industry)** | H+ | + | H+ | + | *L. monocytogenes* | + | 6 | b |
| 2018 | **6873** | **Ecouvillon tapis ligne PN (industrie du poisson)** | **Swab (Fish industry)** | st | - | st | - | / | - | 6 | b |
| 2018 | **6874** | **Ecouvillon tapis ligne CP1 (industrie du poisson)** | **Swab (Fish industry)** | st | - | st | st | / | - | 6 | b |
| 2018 | **6875** | **Chiffonnette table à nerf avant nettoyage (industrie de la viande)** | **Wipe (Meat industry)** | H+ | + | H+ | + | *L. monocytogenes* | + | 6 | b |
| 2018 | **6876** | **Chiffonnette mur à abattage (industrie de la viande)** | **Wipe (Meat industry)** | H+ | + | H+ | + | *L. monocytogenes* | + | 6 | b |
| 2018 | **6877** | **Chiffonnette plan de travail avant production (production thon)** | **Wipe (Fish production)** | H+ | + | H+ | + | *L. monocytogenes* | + | 6 | b |
| 2018 | **6878** | **Chiffonette plan de travail après nettoyage (production saucisse et saucisse végétale)** | **Wipe (Sausage production)** | H+ | + | H+ | + | *L. monocytogenes* | + | 6 | b |
| 2018 | **6879** | **Eponge égout (industrie du poisson)** | **Sponge (Fish industry)** | H+/H- | + | H+/H- | + | *L. monocytogenes / L. innocua* | + | 6 | b |
| 2018 | **6880** | **Eponge sol frais après nettoyage (industrie du poisson)** | **Sponge (Fish industry)** | st | st | st | - | / | - | 6 | b |

♦ Analyses performed according to the COFRAC accreditation

| ENVIRONMENTAL SAMPLES | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Year of analysis | Sample N° | Product (French name) | Product (English name) | Reference method: ISO 11290-1♦ | | | | | | Category | Type |
| | | | | Half Fraser | | Fraser | | Identification | Result *L. monocytogenes* ISO | | |
| | | | | O&A | Palcam | O&A | Palcam | | | | |
| 2018 | 6881 | Chiffonnette robot coupe avant nettoyage (production saucisse végétale) | Wipe (Vegetable sausage production) | st | st | st | st | / | - | 6 | b |
| 2018 | 6882 | Chiffonnette robot coupe après nettoyage (production saucisse végétale) | Wipe (Vegetable sausage production) | st | st | st | - | / | - | 6 | b |
| 2018 | 6883 | Chiffonnette après nettoyage (industrie du poisson) | Wipe after cleaning (Fish industry) | st | st | st | st | / | - | 6 | b |
| 2018 | 6884 | Chiffonnette cutter (industrie du poisson) | Wipe (Fish industry) | st | st | st | st | / | - | 6 | b |
| 2018 | 6885 | Chiffonnette entrée bac electro (industrie de la viande) | Wipe (Meat industry) | - | - | - | - | / | - | 6 | b |
| 2018 | 6886 | Chiffonnette bol mélangeur (industrie du poisson) | Wipe (Fish industry) | st | st | st | st | / | - | 6 | b |
| 2018 | 6887 | Chiffonnette mélangeur après nettoyage (production jambon végétal) | Wipe (Vegetable ham production) | st | st | st | - | / | - | 6 | b |
| 2018 | 6888 | Ecouvillon tapis CP2 (industrie du poisson) | Swab (Fish industry) | st | st | st | st | / | - | 6 | b |
| 2018 | 6889 | Ecouvillon tapis ligne CP3 (industrie du poisson) | Swab (Fish industry) | st | st | st | st | / | - | 6 | b |
| 2018 | 7091 | Chiffonnette billot après nettoyage (industrie de la viande) | Wipe after cleaning (Meat industry) | st | - | st | - | / | - | 6 | b |
| 2018 | 7092 | Chiffonette billot avant nettoyage (industrie de la viande) | Wipe before cleaning (Meat industry) | st | - | - | - | / | - | 6 | b |
| 2018 | 7093 | Chiffonnette industrie du poisson | Wipe before cleaning (Meat industry) | H- | + | H- | + | *L. innocua* | - | 6 | b |
| 2018 | 7094 | Chiffonnette balance après nettoyage (production jambon végétal) | Wipe after cleaning (Production of Vegetable ham)) | st | - | st | - | / | - | 6 | b |
| 2018 | 7095 | Ecouvillon MAF2 fin de production (industrie de la viande) | Swab (Meat industry) | st | - | st | - | / | - | 6 | b |
| 2018 | **5030** | **Déchets mêlée jambon végétale (production de saucisse végétale)** | **Residues (vegetable ham)** | H+ | + | H+ | + | *L. monocytogenes* | + | 6 | c |
| 2018 | **5031** | **Déchets mêlée soja (production de saucisse végétale)** | **Residues (vegetable sausage)** | H+ | + | H+ | + | *L. monocytogenes / L. seeligeri* | + | 6 | c |
| 2018 | **5032** | **Déchets saucisse végétale (production de saucisse végétale)** | **Residues (vegetable sausage)** | H+ | + | H+ | + | *L. monocytogenes* | + | 6 | c |
| 2018 | **5033** | **Déchet de sol (Industrie produits de la mer)** | **Floor residues (Seafood industry)** | H+/H- | + | H+/H- | + | *L. monocytogenes / L. innocua* | + | 6 | c |
| 2018 | **5034** | **Déchet pomme (production compote et soupe)** | **Residues (apple)** | H+ | + | H+ | + | *L. monocytogenes* | + | 6 | c |
| 2018 | **5035** | **Déchet de sol P2 (industrie saumon)** | **Floor residues (Fish industry)** | H+ | + | H+ | + | *L. monocytogenes* | + | 6 | c |
| 2018 | **5036** | **Déchets de volaille (industrie volailles)** | **Poultry residues (Poultry industry)** | H- | + | H+d(NC)/H- | + | *L. innocua* | - | 6 | c |
| 2018 | **5037** | **Déchets poisson (industrie saumon)** | **Fish residues (Fish industry)** | H+/H- | + | H+ | + | *L. monocytogenes / L. seeligeri* | + | 6 | c |
| 2018 | **5038** | **Déchets poisson (industrie saumon)** | **Fish residues (Fish industry)** | H+ | + | H+ | + | *L. monocytogenes* | + | 6 | c |
| 2018 | 5039 | Déchets knacki porc (production saucisse) | Sausage residues | - | st | st | st | / | - | 6 | c |
| 2018 | 5040 | Déchets poisson (industrie saumon) | Fish residues (Fish industry) | st | - | st | st | / | - | 6 | c |
| 2018 | 5041 | Déchets épineuse (industrie produits de la mer) | Residues (Seafood industry) | st | st | st | st | / | - | 6 | c |
| 2018 | 5042 | Déchets accompagnement épices (industrie produits de la mer) | Residues with spices (Seafood industry) | - | - | - | - | / | - | 6 | c |
| 2018 | 5043 | Déchets mêlée jambon végétale (production de saucisse végétale) | Residues vegetable ham | - | - | - | - | / | - | 6 | c |
| 2018 | 5044 | Déchets saucisse végétale (production de saucisse végétale) | Residues vegetable sausage | - | - | - | - | / | - | 6 | c |
| 2018 | 5045 | Déchet pomme (production compote et soupe) | Residues apple | st | - | - | - | / | - | 6 | c |
| 2018 | **6374** | **Poussière aspirateur (environnement laitier)** | **Dusts (Dairy industry)** | H+/H- | +(1) | H+ | + | *L. monocytogenes/L. seeligeri/welshimeri* | + | 6 | c |

| ENVIRONMENTAL SAMPLES | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Year of analysis | Sample N° | Product (French name) | Product (English name) | Reference method: ISO 11290-1♦ | | | | | | Category | Type |
| | | | | Half Fraser | | Fraser | | Identification | Result *L. monocytogenes* ISO | | |
| | | | | O&A | Palcam | O&A | Palcam | | | | |
| 2018 | 6375 | Poussière aspirateur (environnement laitier) | Dusts (Dairy industry) | H+ | - | H+ | + | *L. monocytogenes* | + | 6 | c |
| 2018 | 6376 | Poussière aspirateur (environnement laitier) | Dusts (Dairy industry) | H+ | + | H+ | + | *L. monocytogenes* | + | 6 | c |
| 2018 | 6377 | Poussière aspirateur (environnement laitier) | Dusts (Dairy industry) | st | - | H+ | + | *L. monocytogenes* | + | 6 | c |
| 2018 | 6378 | Poussière aspirateur (environnement laitier) | Dusts (Dairy industry) | H+ | + | H+ | + | *L. monocytogenes* | + | 6 | c |
| 2018 | 6379 | Poussière aspirateur (environnement laitier) | Dusts (Dairy industry) | H+ | + | H+ | + | *L. monocytogenes* | + | 6 | c |
| 2018 | 6380 | Poussière aspirateur (environnement laitier) | Dusts (Dairy industry) | H+ | + | H+ | + | *L. monocytogenes* | + | 6 | c |
| 2018 | 6381 | Poussière aspirateur (environnement laitier) | Dusts (Dairy industry) | H+ | + | H+ | + | *L. monocytogenes* | + | 6 | c |
| 2018 | 6468 | Poussière lait (aspirateur) | Dusts (Dairy industry) | H+d/H-d (NC) | - | H+ | + | *L. monocytogenes* | + | 6 | c |
| 2018 | 6469 | Poussière lait (aspirateur) | Dusts (Dairy industry) | st | - | - | - | / | - | 6 | c |
| 2018 | 6470 | Poussière lait (aspirateur) | Dusts (Dairy industry) | - | - | - | - | / | - | 6 | c |
| 2018 | 6471 | Poussière lait (aspirateur) | Dusts (Dairy industry) | - | - | H+ | + | *L. monocytogenes* | + | 6 | c |
| 2018 | 6472 | Poussière lait (aspirateur) | Dusts (Dairy industry) | H+ | + | H+ | + | *L. monocytogenes* | + | 6 | c |
| 2018 | 6473 | Poussière lait (aspirateur) | Dusts (Dairy industry) | - | - | H+ | + | *L. monocytogenes* | + | 6 | c |

| COMPOSITE FOODS | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year of analysis | Sample N° | Product (English name) | Reference method: ISO 11290-1♦ | Alternative method: GeneDisc® *Listeria* DUO for the detection of *Listeria monocytogenes* | | | | | | | | | | | | | | | | Category | Type |
| | | | | Half Fraser broth for 20 h ± 2 h at 37°C for raw milk<br>25 h ± 1 h for all other products | | | | | | | | | | | | | | | | | |
| | | | | PCR *Listeria monocytogenes* | | Confirmations | | | | | | | | All confir-matory tests | Fraser 1 24h at 37°C (ISO16140:2 requirements) | *Listeria monocytogenes* | | | | | |
| | | | | | | O&A | | | | Palcam | | | | | | | | | | | |
| | | | Result *L. monocy-togenes* ISO | Extraction A | Extraction B | Typical colonies | Gram/ Catalase | API | GeneDisc ID | Typical colonies | Gram/ catalase | API | GeneDisc ID | | | Final result PCR A | Final result PCR B | Agree-ment Ref/Alt PCR A | Agree-ment Ref/Alt PCR B | | |
| 2010 | 2011 | Pasta salad (peppers, sausages) | - | - | - | H- | +/- | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 1 | a |
| 2010 | 2019 | Salad (carrots, surimi) | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 1 | a |
| 2010 | 2022 | Tabouleh with shrimps | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 1 | a |
| 2010 | 2023 | Salad (links and chicken) | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 1 | a |
| 2010 | 2027 | Salad (Rice and crab) | - | - | +/+ | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | PPNA | 1 | a |
| 2010 | 2028 | Salad (scallops and prawns) | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 1 | a |
| 2010 | 493 | Cooked rice | + | + | + | H+/H- | +/+ | *L.monocytogenes/ L.welshimeri* | *L.monocytogenes/ L.welshimeri* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 1 | a |
| 2010 | **910** | **Raw vegetables mix** | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 1 | a |
| 2010 | 943 | Chinese deli salad | - | - | - | H- | +/+ | *L.seeligeri/ L.seeligeri* | *L.seeligeri/ L.seeligeri* | +/+ | / | / | / | - | / | - | - | NA | NA | 1 | a |
| 2010 | 944 | Spring rolls | - | - | - | - | / | / | / | -/+ | +/+ | *L.seeligeri/ L.seeligeri* | *L.seeligeri/ L.seeligeri* | - | / | - | - | NA | NA | 1 | a |
| 2010 | 945 | Chinese deli salad | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 1 | a |
| 2010 | 946 | Spring rolls | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 1 | a |
| 2010 | 1041 | Tabouleh | - | - | - | H- | NC | / | / | -/-(confirmed at 72H) | +/+ | *L.welshimeri/ L.welshimeri* | *L.welshimeri/ L.welshimeri* | - | / | - | - | NA | NA | 1 | a |
| 2010 | 1043 | Deli salad (celery) | - | - | - | H- | +/+ | / | / | +/+ | +/+ | *L.innocua/ L.innocua* | *L.innocua/ L.innocua* | - | / | - | - | NA | NA | 1 | a |
| 2010 | 1044 | Deli salad (rice) | - | - | - | H- | +/+ | / | / | +/+ | +/+ | *L.welshimeri/ L.welshimeri* | *L.welshimeri/ L.welshimeri* | - | / | - | - | NA | NA | 1 | a |
| 2010 | 1045 | Deli salad (Pièmontaise) | - | - | - | H- | +/+ | / | / | +/+ | +/+ | *L.innocua/ L.innocua* | *L.innocua/ L.innocua* | - | / | - | - | NA | NA | 1 | a |
| 2010 | 1046 | Deli salad | - | - | - | H- | +/+ | / | / | +/+ | +/+ | *L.innocua/ L.innocua* | *L.innocua/ L.innocua* | - | / | - | - | NA | NA | 1 | a |
| 2010 | 1047 | Cabbage salad | - | - | - | H- | +/+ | / | / | +/+ | +/+ | *L.innocua/ L.innocua* | *L.innocua/ L.innocua* | - | / | - | - | NA | NA | 1 | a |
| 2010 | 1048 | Tuna deli salad | - | - | - | H- | +/+ | / | / | +/+ | +/+ | *L.welshimeri/ L.welshimeri* | *L.welshimeri/ L.welshimeri* | - | / | - | - | NA | NA | 1 | a |
| 2018 | 4322 | RTE Salad with pasta | + | +35,9/ +35,8/- | -/-/- | - | / | / | / | - | / | / | / | + (Fraser 1) | + *(L. monocy-togenes)* | + | - | PA | ND | 1 | a |
| 2018 | **4390** | **Sandwich with ham and cheese** | + | - | - | - | / | / | / | - | / | / | / | - | - | - | - | ND | ND | 1 | a |
| 2018 | **4391** | **Sandwich with ham and cheese** | - | +23,6 | +28,9 | H+ | +/+ | *L. monocytogenes* | *L. monocytogenes* (+20,9) | + | +/+ | *L. monocytogenes* | *L. monocytogenes* (+20,0) | + | / | + | + | PD | PD | 1 | a |
| 2018 | **4392** | **Tabouleh** | - | - | - | H-d | NC | / | / | - | / | / | / | - | - | - | - | NA | NA | 1 | a |
| 2018 | **4393** | **Sandwich with ham and butter** | - | +31,0 | +31,4 | H+ | +/+ | *L. monocytogenes* | *L. monocytogenes* (+22,7) | + | +/+ | *L. monocytogenes* | *L. monocytogenes* (+21,0) | + | / | + | + | PD | PD | 1 | a |
| 2018 | **4394** | **RTE Salad with ham** | - | - | - | - | / | / | / | - | / | / | / | - | - | - | - | NA | NA | 1 | a |
| 2018 | **4395** | **RTE Deli-salad** | - | - | - | st | / | / | / | - | / | / | / | - | - | - | - | NA | NA | 1 | a |
| 2018 | **4396** | **Sandwich with ham and cheddar** | - | +27,0 | +27,7 | H+ | +/+ | *L. monocytogenes* | *L. monocytogenes* (+20,5) | + | +/+ | *L. monocytogenes* | *L. monocytogenes* (+19,9) | + | / | + | + | PD | PD | 1 | a |
| 2018 | **4397** | **Salad with ham** | + | - | - | - | / | / | / | - | / | / | / | - | - | - | - | ND | ND | 1 | a |

♦ Analyses performed according to the COFRAC accreditation

| COMPOSITE FOODS | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year of analysis | Sample N° | Product (English name) | Reference method: ISO 11290-1♦ | Alternative method: GeneDisc® *Listeria* DUO for the detection of *Listeria monocytogenes* | | | | | | | | | | | | | | | | Category | Type |
| | | | | Half Fraser broth for 20 h ± 2 h at 37°C for raw milk<br>25 h ± 1 h for all other products | | | | | | | | | | | | | | | | | |
| | | | | PCR *Listeria monocytogenes* | | Confirmations | | | | | | | | All confir-matory tests | Fraser 1 24h at 37°C (ISO16140:2 requirements) | *Listeria monocytogenes* | | | | | |
| | | | | | | O&A | | | | Palcam | | | | | | | | | | | |
| | | | Result *L. monocy-togenes* ISO | Extraction A | Extraction B | Typical colonies | Gram/ Catalase | API | GeneDisc ID | Typical colonies | Gram/ catalase | API | GeneDisc ID | | | Final result PCR A | Final result PCR B | Agree-ment Ref/Alt PCR A | Agree-ment Ref/Alt PCR B | | |
| 2010 | 2134 | Pizza | + | + | - | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | - | PA | ND | 1 | b |
| 2010 | 2135 | Brioche with sausage | - | - | + | -(+ Fraser 1) | +/+ | *L.monocytogenes* | *L.monocytogenes* | -/-(+ after fraser) | / | / | / | + | / | - | + | NA | PD | 1 | b |
| 2010 | 2175 | Pie | - | - | - | - | / | / | -/- | / | / | / | / | - | / | - | - | NA | NA | 1 | b |
| 2010 | 85 | Ready to reheat meal | - | - | - | - | / | / | / | - | / | / | / | - | / | - | - | NA | NA | 1 | b |
| 2010 | 181 | Ready to reheat meal | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | -/+ | +/+ | / | / | + | / | + | + | PA | PA | 1 | b |
| 2010 | 216 | Paella | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 1 | b |
| 2010 | 495 | Pie | - | + | + | H+/H- | +/+ | *L.monocytogenes/ L.monocytogenes* | *L.monocytogenes/ L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PD | PD | 1 | b |
| 2010 | 541 | Ready to reheat meal | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 1 | b |
| 2010 | 548 | Ready to reheat meat | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 1 | b |
| 2010 | 549 | Cooked chicken with mushrooms | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 1 | b |
| 2010 | 550 | Pork with caramel | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 1 | b |
| 2010 | 653 | Burger | + | + | + | H+/H- | +/+ | *L.monocytogenes/ L.innocua* | *L.monocytogenes/ L.innocua* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 1 | b |
| 2010 | 807 | Ready to reheat meal (Navarin) | - | - | - | - | / | / | / | - | / | / | / | - | / | - | - | NA | NA | 1 | b |
| 2010 | 808 | Ready to reheat meal (rabbit) | - | - | - | - | / | / | / | - | / | / | / | - | / | - | - | NA | NA | 1 | b |
| 2010 | 809 | Ready to reheat meal (chicken) | - | - | - | - | / | / | / | - | / | / | / | - | / | - | - | NA | NA | 1 | b |
| 2010 | 810 | Cooked pasta | - | - | - | - | / | / | / | - | / | / | / | - | / | - | - | NA | NA | 1 | b |
| 2010 | 812 | Ready to cook meal (turkey) | - | - | - | - | / | / | / | - | / | / | / | - | / | - | - | NA | NA | 1 | b |
| 2010 | 813 | Ready to reheat meal | - | - | - | - | / | / | / | - | / | / | / | - | / | - | - | NA | NA | 1 | b |
| 2010 | **917** | **Frozen peas and sliced bacon** | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 1 | b |
| 2010 | 1042 | Pasta with surimi | - | - | - | H- | +/+ | / | / | +/+ | +/+ | *L.innocua/ L.innocua* | *L.innocua/ L.innocua* | - | / | - | - | NA | NA | 1 | b |
| 2010 | 1050 | Pie | - | - | - | H- | +/+ | / | / | +/+ | +/+ | *L.welshimeri/ L.welshimeri* | *L.welshimeri/ L.welshimeri* | - | / | - | - | NA | NA | 1 | b |
| 2010 | 1051 | Pie | - | - | - | H- | +/+ | / | / | +/+ | +/+ | *L.welshimeri/ L.welshimeri* | *L.welshimeri/ L.welshimeri* | - | / | - | - | NA | NA | 1 | b |
| 2010 | 1052 | Pizza | - | - | - | H- | NC | / | / | -/-(confirmed at 72H) | +/+ | *L.welshimeri/ L.welshimeri* | *L.welshimeri/ L.welshimeri* | - | / | - | - | NA | NA | 1 | b |
| 2010 | 1053 | Pie | - | - | - | H- | +/+ | / | / | +/+ | +/+ | *L.innocua/ L.innocua* | *L.innocua/ L.innocua* | - | / | - | - | NA | NA | 1 | b |
| 2018 | **4398** | **Couscous** | - | - | - | st | / | / | / | - | / | / | / | - | - | - | - | NA | NA | 1 | b |
| 2018 | **4399** | **Couscous** | - | +24,7 | +21,2 | H+ | +/+ | *L. monocytogenes* | *L. monocytogenes* (+22,1) | + | +/+ | *L. monocytogenes* | *L. monocytogenes* (+22,2) | + | / | + | + | PD | PD | 1 | b |
| 2018 | **4400** | **RTRH food** | + | - | - | - | / | / | / | - | / | / | / | - | - | - | - | ND | ND | 1 | b |
| 2018 | **4401** | **RTRH food** | - | +29,0 | +25,1 | H+ | +/+ | *L. monocytogenes* | *L. monocytogenes* (+22,0) | + | +/+ | *L. monocytogenes* | *L. monocytogenes* (+22,5) | + | / | + | + | PD | PD | 1 | b |
| 2018 | **4402** | **RTRH food** | - | +23,4 | +25,3 | H+ | +/+ | *L. monocytogenes* | *L. monocytogenes* (+20,9) | + | +/+ | *L. monocytogenes* | *L. monocytogenes* (+20,8) | + | / | + | + | PD | PD | 1 | b |
| 2018 | **4403** | **RTRH food** | - | +26,1 | +19,1 | H+ | +/+ | *L. monocytogenes* | *L. monocytogenes* (+21,0) | + | +/+ | *L. monocytogenes* | *L. monocytogenes* (+20,8) | + | / | + | + | PD | PD | 1 | b |
| 2010 | 2128 | Preparation for pancakes | - | - | -/- | - | / | / | / | / | / | / | / | - | / | - | - | NA | NA | 1 | c |
| 2010 | 2130 | Chocolate cake | - | - | - | - | / | / | / | / | / | / | / | - | / | - | - | NA | NA | 1 | c |

| COMPOSITE FOODS | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year of analysis | Sample N° | Product (English name) | Reference method: ISO 11290-1♦ | Alternative method: GeneDisc® *Listeria* DUO for the detection of *Listeria monocytogenes* | | | | | | | | | | | | | | | | Category | Type |
| | | | | Half Fraser broth for 20 h ± 2 h at 37°C for raw milk<br>25 h ± 1 h for all other products | | | | | | | | | | | | | | | | | |
| | | | | PCR *Listeria monocytogenes* | | Confirmations | | | | | | | | All confir-matory tests | Fraser 1 24h at 37°C (ISO16140:2 requirements) | *Listeria monocytogenes* | | | | | |
| | | | | | | O&A | | | | Palcam | | | | | | | | | | | |
| | | | Result *L. monocy-togenes* ISO | Extraction A | Extraction B | Typical colonies | Gram/ Catalase | API | GeneDisc ID | Typical colonies | Gram/ catalase | API | GeneDisc ID | | | Final result PCR A | Final result PCR B | Agree-ment Ref/Alt PCR A | Agree-ment Ref/Alt PCR B | | |
| 2010 | 2131 | Omelette | + | + | - | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | - | PA | ND | 1 | c |
| 2010 | 2132 | Preparation for pancakes | - | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PD | PD | 1 | c |
| 2010 | 2136 | Omelette | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 1 | c |
| 2010 | 2139 | Chocolate cake | - | - | - | - | / | / | -/- | -/- | / | / | / | - | / | - | - | NA | NA | 1 | c |
| 2010 | 2176 | Omelette | - | - | - | - | / | / | -/- | / | / | / | / | - | / | - | - | NA | NA | 1 | c |
| 2010 | 2177 | Omelette | + | + | + | H+ | + | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 1 | c |
| 2010 | 2178 | Omelette | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 1 | c |
| 2010 | 212 | Omelette | + | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | ND | ND | 1 | c |
| 2018 | **4375** | **Pastry** | - | +35,9 | +33,8 | H+/H- | +/+ | *L. monocytogenes / L. innocua* | *L. monocytogenes (+27,8) / L. innocua (+25,1)* | + | +/+ | *L. innocua* | *L. innocua (+23,8)* | + | / | + | + | PD | PD | 1 | c |
| 2018 | **4376** | **Pastry** | + | - | - | H- | +/+ | *L. innocua* | *L. innocua (+26,1)* | + | +/+ | *L. innocua* | *L. innocua (+24,1)* | - | / | - | - | ND | ND | 1 | c |
| 2018 | **4377** | **Pastry** | - | - | - | - | / | / | / | - | / | / | / | - | - | - | - | NA | NA | 1 | c |
| 2018 | **4378** | **Tortilla with ham** | - | - | - | H- | +/+ | *L. innocua* | *L. innocua (+25,4)* | + | +/+ | *L. innocua* | *L. innocua (+25,0)* | - | / | - | - | NA | NA | 1 | c |
| 2018 | **4379** | **Tortilla** | - | - | - | - | / | / | / | - | / | / | / | - | - | - | - | NA | NA | 1 | c |
| 2018 | **4380** | **Tortilla with onions** | + | - | - | - | / | / | / | - | / | / | / | - | - | - | - | ND | ND | 1 | c |
| 2018 | 4967 | Pastry | - | - | - | - | / | / | / | - | / | / | / | - | - | - | - | NA | NA | 1 | c |
| 2018 | 4968 | Pastry | - | - | - | - | / | / | / | - | / | / | / | - | - | - | - | NA | NA | 1 | c |
| 2018 | 4969 | Pastry | - | - | - | - | / | / | / | - | / | / | / | - | - | - | - | NA | NA | 1 | c |
| 2018 | 04970 | Tortilla with onions | - | - | - | st | / | / | / | - | / | / | / | - | - | - | - | NA | NA | 1 | c |
| 2018 | 04971 | Tortilla | - | - | - | - | / | / | / | - | / | / | / | - | - | - | - | NA | NA | 1 | c |
| 2018 | **5023** | **Tortilla** | + | - | - | - | / | / | / | - | / | / | / | - | - | - | - | ND | ND | 1 | c |
| 2018 | **5024** | **Tortilla with onions** | + | +25,2 | +22,1 | H+ | +/+ | *L. monocytogenes* | *L. monocytogenes (+20,0)* | + | +/+ | / | / | + | / | + | + | PA | PA | 1 | c |
| 2018 | **5025** | **Brownie** | - | - | - | - | / | / | / | - | / | / | / | - | - | - | - | NA | NA | 1 | c |
| 2018 | **5026** | **Pastry** | - | +23,2 | +26,2 | H+d/H-d (NC) | +/+ | *L. mononcytogenes / NI* | *L. monocytogenes (+18,9) / -* | + | +/+ | / | / | + | / | + | + | PD | PD | 1 | c |

| MEAT PRODUCTS | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year of analysis | Sample N° | Product (English name) | Reference method: ISO 11290-1♦ | Alternative method: GeneDisc® *Listeria* DUO for the detection of *Listeria monocytogenes* | | | | | | | | | | | | | | | | Category | Type |
| | | | | Half Fraser broth for 20 h ± 2 h at 37°C for raw milk<br>25 h ± 1 h for all other products | | | | | | | | | | | | | | | | | |
| | | | | PCR *Listeria monocytogenes* | | Confirmations | | | | | | | | All confir-matory tests | Fraser 1 24h at 37°C (ISO16140:2 requirements) | *Listeria monocytogenes* | | | | | |
| | | | | | | O&A | | | | Palcam | | | | | | | | | | | |
| | | | Result *L. monocy-togenes* ISO | Extraction A | Extraction B | Typical colonies | Gram/ Catalase | API | GeneDisc ID | Typical colonies | Gram/ catalase | API | GeneDisc ID | | | Final result PCR A | Final result PCR B | Agree-ment Ref/Alt PCR A | Agree-ment Ref/Alt PCR B | | |
| 2010 | 2090 | Ground veal | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 2 | a |
| 2010 | 2095 | Pork meat | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 2 | a |
| 2010 | 2098 | Chicken leg | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 2 | a |
| 2010 | 2133 | Ground veal | - | - | - | H- | -/- | / | / | +/+ | +/+ | *L.welshimeri/ L.welshimeri* | *L.welshimeri/ L.welshimeri* | - | / | - | - | NA | NA | 2 | a |
| 2010 | 89 | Ground beef | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | + | +/+ | / | / | + | / | + | + | PA | PA | 2 | a |
| 2010 | 165 | Ground veal | + | + | + | H+/H- | +/+ | *L.mono/L.welshimeri* | *L.mono/L.welshimeri* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 2 | a |
| 2010 | 166 | Ground veal | + | + | + | H+/H- | +/+ | *L.mono/L.welshimeri* | *L.mono/L.welshimeri* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 2 | a |
| 2010 | 173 | Raw pork meat | - | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PD | PD | 2 | a |
| 2010 | 174 | Raw pork meat | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 2 | a |
| 2010 | 175 | Raw pork meat | + | + | + | H+/H- | +/+ | *L.monocytogenes / L.innocua* | *L.monocytogenes / L.innocua* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 2 | a |
| 2010 | 177 | Raw pork meat | - | - | - | H- | +/+ | *L.welshimeri/ L.welshimeri* | *L.welshimeri/ L.welshimeri* | +/+ | +/+ | / | / | - | / | - | - | NA | NA | 2 | a |
| 2010 | 179 | Turkey meat | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 2 | a |
| 2010 | 180 | Turkey meat | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 2 | a |
| 2010 | 363 | Frozen ground beef | + | + | + | H+/H- | +/+ | *L.monocytogenes / L.innocua* | *L.monocytogenes / L.innocua* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 2 | a |
| 2010 | 364 | Frozen ground beef | + | - | - | H+/H- | +/+ | *L.monocytogenes / L.welshimeri* | *L.monocytogenes / L.welshimeri* | +/+ | +/+ | / | / | + | / | - | - | ND | ND | 2 | a |
| 2010 | 399 | Ground beef | - | - | - | H- | +/+ | *L.welshimeri/ L.welshimeri* | *L.welshimeri/ L.welshimeri* | +/+ | +/+ | / | / | - | / | - | - | NA | NA | 2 | a |
| 2010 | 486 | Ground beef | - | - | - | H- | +/+ | *L.welshimeri/ L.welshimeri* | *L.welshimeri/ L.welshimeri* | +/+ | +/+ | / | / | - | / | - | - | NA | NA | 2 | a |
| 2010 | 487 | Ground beef | - | - | - | H- | NC | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 2 | a |
| 2010 | 488 | Ground beef | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 2 | a |
| 2010 | 497 | Delicatessen | - | + | + | H+/H- | +/+ | *L.monocytogenes/ L.welshimeri* | *L.monocytogenes/ L.welshimeri* | +/+ | +/+ | / | / | + | / | + | + | PD | PD | 2 | a |
| 2010 | 530 | Ground beef | + | + | + | H+/H- | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 2 | a |
| 2010 | 532 | Veal meat | - | - | - | d | nc | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 2 | a |
| 2010 | 534 | Lamb meat | - | - | - | H-d | +/+ | *L.welshimeri* | *L.welshimeri* | +/+ | +/+ | *L.welshimeri* | *L.welshimeri* | - | / | - | - | NA | NA | 2 | a |
| 2010 | 537 | Pork meat | - | - | - | H- | +/+ | *L.welshimeri/ L.welshimeri* | *L.welshimeri/ L.welshimeri* | +/+ | +/+ | / | / | - | / | - | - | NA | NA | 2 | a |
| 2010 | 538 | Lamb meat | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 2 | a |
| 2010 | 539 | Beef meat | - | - | - | H- | +/+ | *L.welshimeri/ L.welshimeri* | *L.welshimeri/ L.welshimeri* | +/+ | +/+ | / | / | - | / | - | - | NA | NA | 2 | a |
| 2010 | 542 | Sheep meat | - | - | - | H- | +/+ | *L.innocua/ L.innocua* | *L.innocua/ L.innocua* | +/+ | +/+ | / | / | - | / | - | - | NA | NA | 2 | a |
| 2010 | 543 | Lamb meat | - | - | - | H- | +/+ | *L.welshimeri/ L.welshimeri* | *L.welshimeri/ L.welshimeri* | +/+ | +/+ | / | / | - | / | - | - | NA | NA | 2 | a |
| 2010 | 544 | Turkey meat | - | - | - | H- | +/+ | *L.innocua/ L.welshimeri* | *L.innocua/ L.welshimeri* | +/+ | +/+ | / | / | - | / | - | - | NA | NA | 2 | a |
| 2010 | 546 | Chicken meat | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 2 | a |
| 2010 | 547 | Pork meat | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 2 | a |
| 2010 | 613 | **Lamb meat** | - | - | - | H- | +/+ | *L.innocua/ L.innocua* | *L.innocua/ L.innocua* | +/+ | +/+ | / | / | - | / | - | - | NA | NA | 2 | a |
| 2010 | 614 | **Lamb meat** | - | - | - | H- | +/+ | *L.innocua/ L.innocua* | *L.innocua/ L.innocua* | +/+ | +/+ | / | / | - | / | - | - | NA | NA | 2 | a |

♦ Analyses performed according to the COFRAC accreditation

| MEAT PRODUCTS | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year of analysis | Sample N° | Product (English name) | Reference method: ISO 11290-1♦ | Alternative method: GeneDisc® *Listeria* DUO for the detection of *Listeria monocytogenes* | | | | | | | | | | | | | | | | Category | Type |
| | | | | Half Fraser broth for 20 h ± 2 h at 37°C for raw milk<br>25 h ± 1 h for all other products | | | | | | | | | | | | | | | | | |
| | | | | PCR *Listeria monocytogenes* | | Confirmations | | | | | | | | All confir-matory tests | Fraser 1 24h at 37°C (ISO16140:2 requirements) | *Listeria monocytogenes* | | | | | |
| | | | | | | O&A | | | | Palcam | | | | | | | | | | | |
| | | | Result *L. monocy-togenes* ISO | Extraction A | Extraction B | Typical colonies | Gram/ Catalase | API | GeneDisc ID | Typical colonies | Gram/ catalase | API | GeneDisc ID | | | Final result PCR A | Final result PCR B | Agree-ment Ref/Alt PCR A | Agree-ment Ref/Alt PCR B | | |
| 2010 | 615 | **Pork meat** | - | - | - | H- | +/+ | *L.innocua/ L.innocua* | *L.innocua/ L.innocua* | +/+ | +/+ | / | / | - | / | - | - | **NA** | **NA** | 2 | a |
| 2010 | 616 | **Pork meat** | - | - | - | H- | +/+ | *L.innocua/ L.innocua* | *L.innocua/ L.innocua* | +/+ | +/+ | / | / | - | / | - | - | **NA** | **NA** | 2 | a |
| 2010 | **617** | **Pork meat** | + | + | + | H+/H- | +/+ | *L.innocua/ L.innocua/ L.monocytogenes* | *L.innocua/ L.innocua/ L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | **PA** | **PA** | 2 | a |
| 2010 | 753 | Pork meat | - | - | - | H- | +/+ | *L.welshimeri/ L.welshimeri* | *L.welshimeri/ L.welshimeri* | +/+ | +/+ | / | / | - | / | - | - | **NA** | **NA** | 2 | a |
| 2010 | 754 | Beef meat | - | - | - | H- | +/+ | *L.welshimeri/ L.welshimeri* | *L.welshimeri/ L.welshimeri* | +/+ | +/+ | / | / | - | / | - | - | **NA** | **NA** | 2 | a |
| 2010 | 755 | Beef meat | - | - | - | H- | +/+ | *L.welshimeri/ L.welshimeri* | *L.welshimeri/ L.welshimeri* | +/+ | +/+ | / | / | - | / | - | - | **NA** | **NA** | 2 | a |
| 2010 | 756 | Beef meat | - | - | - | H- | +/+ | *L.welshimeri/ L.welshimeri* | *L.welshimeri/ L.welshimeri* | +/+ | +/+ | / | / | - | / | - | - | **NA** | **NA** | 2 | a |
| 2010 | 757 | Veal meat | - | - | - | H- | +/+ | *L.welshimeri/ L.welshimeri* | *L.welshimeri/ L.welshimeri* | -/+ | +/+ | / | / | - | / | - | - | **NA** | **NA** | 2 | a |
| 2010 | 758 | Pork meat | - | - | - | H- | +/+ | *L.welshimeri/ L.welshimeri* | *L.welshimeri/ L.welshimeri* | +/+ | +/+ | / | / | - | / | - | - | **NA** | **NA** | 2 | a |
| 2010 | 759 | Pork meat | - | - | - | H- | +/+ | *L.welshimeri/ L.welshimeri* | *L.welshimeri/ L.welshimeri* | +/+ | +/+ | / | / | - | / | - | - | **NA** | **NA** | 2 | a |
| 2010 | 761 | Ground beef | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | **NA** | **NA** | 2 | a |
| 2010 | 2086 | Marinated chicken | - | - | - | d(1) | -/+ | / | / | -/- | / | / | / | - | / | - | - | **NA** | **NA** | 2 | b |
| 2010 | 2087 | Skewer | - | - | - | H- | +/+ | *L.innocua* | *L.innocua* | +/+ | +/+ | / | / | - | / | - | - | **NA** | **NA** | 2 | b |
| 2010 | 2094 | Marinated pork meat | - | - | - | d | -/- | / | / | -/- | / | / | / | - | / | - | - | **NA** | **NA** | 2 | b |
| 2010 | 2096 | Beef balls | - | - | - | d | -/+ | / | / | +/+ | +/+ | *L.welshimeri* | *L.welshimeri* | - | / | - | - | **NA** | **NA** | 2 | b |
| 2010 | 2097 | Cockerel skewer | + | - | + | H+ | -/- | / | / | +1col | +/+ | *L.monocytogenes* | *L.monocytogenes* | + | / | - | + | **ND** | **PA** | 2 | b |
| 2010 | 167 | Ready to cook meal | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | **NA** | **NA** | 2 | b |
| 2010 | 169 | Ready to reheat meat | - | - | - | - | / | / | / | -/+1col | -/+ | / | / | - | / | - | - | **NA** | **NA** | 2 | b |
| 2010 | 176 | Cured turkey meat | + | + | + | H+/H- | +/+ | *L.monocytogenes / L.welshimeri* | *L.monocytogenes/ L.welshimeri* | +/+ | +/+ | / | / | + | / | + | + | **PA** | **PA** | 2 | b |
| 2010 | 178 | Turkey meat with pepper | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | **PA** | **PA** | 2 | b |
| 2010 | 336 | Cooked turkey meat | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | **PA** | **PA** | 2 | b |
| 2010 | 337 | Cooked turkey meat | - | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | **PD** | **PD** | 2 | b |
| 2010 | 362 | Frozen beef with onions | - | - | - | d | -/+ | / | / | -/- | / | / | / | - | / | - | - | **NA** | **NA** | 2 | b |
| 2010 | 400 | Seasoned ground beef | - | + | + | H+(1) | +/+ | *L.monocytogenes* | *L.monocytogenes* | -/+ | +/+ | / | / | + | / | + | + | **PD** | **PD** | 2 | b |
| 2010 | 489 | Beef Carpaccio | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | **NA** | **NA** | 2 | b |
| 2010 | 535 | Picada | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | **PA** | **PA** | 2 | b |
| 2010 | 545 | Pork meat | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | **NA** | **NA** | 2 | b |
| 2010 | 760 | Beef balls | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | **NA** | **NA** | 2 | b |
| 2010 | 762 | Duck meat | - | + | + | H+/H- | +/+ | *L.innovua / L.monocytogenes* | *L.innovua / L.monocytogenes* | +/+ | +/+ | / | / | - | / | + | + | **PD** | **PD** | 2 | b |
| 2010 | 806 | Paupiette | - | - | - | - | / | / | / | - | / | / | / | - | / | - | - | **NA** | **NA** | 2 | b |
| 2010 | 811 | Ready to eat chicken liver | - | - | - | - | / | / | / | - | / | / | / | - | / | - | - | **NA** | **NA** | 2 | b |
| 2010 | 814 | Ready to reheat meal | - | - | - | - | / | / | / | - | / | / | / | - | / | - | - | **NA** | **NA** | 2 | b |
| 2010 | 2085 | Merguez | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | **PA** | **PA** | 2 | c |
| 2010 | 2091 | Cured pork meat | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | **NA** | **NA** | 2 | c |
| 2010 | 2092 | Sausage | + | + | + | H-(2) | +/+ | *L.welshimeri* | *L.welshimeri* | +/+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | + | / | + | + | **PA** | **PA** | 2 | c |
| 2010 | 2093 | Smoked sliced bacon | - | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | **PD** | **PD** | 2 | c |

| MEAT PRODUCTS | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year of analysis | Sample N° | Product (English name) | Reference method: ISO 11290-1♦ | Alternative method: GeneDisc® *Listeria* DUO for the detection of *Listeria monocytogenes* | | | | | | | | | | | | | | | | Category | Type |
| | | | | Half Fraser broth for 20 h ± 2 h at 37°C for raw milk<br>25 h ± 1 h for all other products | | | | | | | | | | | | | | | | | |
| | | | | PCR *Listeria monocytogenes* | | Confirmations | | | | | | | | All confir-matory tests | Fraser 1 24h at 37°C (ISO16140:2 requirements) | *Listeria monocytogenes* | | | | | |
| | | | | | | O&A | | | | Palcam | | | | | | | | | | | |
| | | | Result *L. monocy-togenes* ISO | Extraction A | Extraction B | Typical colonies | Gram/ Catalase | API | GeneDisc ID | Typical colonies | Gram/ catalase | API | GeneDisc ID | | | Final result PCR A | Final result PCR B | Agree-ment Ref/Alt PCR A | Agree-ment Ref/Alt PCR B | | |
| 2010 | 2129 | Sausages with herbs | - | +(35,4)/+ | - | H- | +/+ | *L.welshimeri/ L.welshimeri* | *L.welshimeri/ L.welshimeri* | +/+ | +/+ | / | / | - | / | - | - | **PPNA** | **NA** | 2 | c |
| 2010 | 2138 | Raw rillettes | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | **PA** | **PA** | 2 | c |
| 2010 | 86 | Sausages with herbs | + | - | - | H- | +/+ | *L.welshimeri/ L.welshimeri* | *L.welshimeri/ L.welshimeri* | -/+ | +/+ | / | / | - | / | - | - | **ND** | **ND** | 2 | c |
| 2010 | 87 | Sausages | + | + | + | H+ | +/+ | *L.mono/L.welshimeri* | *L.mono/L.welshimeri* | + | +/+ | / | / | + | / | + | + | **PA** | **PA** | 2 | c |
| 2010 | 168 | Sausages | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | **NA** | **NA** | 2 | c |
| 2010 | 171 | Meat for sausage | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | **NA** | **NA** | 2 | c |
| 2010 | 172 | Delicatessen | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | **NA** | **NA** | 2 | c |
| 2010 | 490 | Salami | - | - | - | - | / | / | / | +/+ | +/+ | *L.monocytogenes/ L.monocytogenes* | *L.monocytogenes/ L.monocytogenes* | + | / | - | - | **NA** | **NA** | 2 | c |
| 2010 | 496 | Delicatessen | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | **NA** | **NA** | 2 | c |
| 2010 | 528 | Merguez | + | + | + | H+/H- | +/+ | *L.monocytogenes/ L.welshimeri* | *L.monocytogenes/ L.welshimeri* | +/+ | +/+ | / | / | + | / | + | + | **PA** | **PA** | 2 | c |
| 2010 | 529 | Merguez | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | **PA** | **PA** | 2 | c |
| 2010 | 531 | Sausages | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | **PA** | **PA** | 2 | c |
| 2010 | 533 | Meat for sausage | + | + | + | H+/H- | +/+ | *L.monocytogenes/ L.welshimeri* | *L.monocytogenes/ L.welshimeri* | +/+ | +/+ | / | / | + | / | + | + | **PA** | **PA** | 2 | c |
| 2010 | 536 | Sausages with herbs | + | - | - | H- | +/+ | *L.welshimeri/ L.welshimeri* | *L.welshimeri/ L.welshimeri* | +/+ | +/+ | / | / | - | / | - | - | **ND** | **ND** | 2 | c |
| 2010 | 540 | Sausages with herbs | - | + | + | H+/H- | +/+ | *L.monocytogenes/ L.welshimeri* | *L.monocytogenes/ L.welshimeri* | +/+ | +/+ | / | / | + | / | + | + | **PD** | **PD** | 2 | c |
| 2010 | **619** | **Delicatessen** | + | - | - | H- | +/+ | *L.grayi/ L.grayi* | *L.grayi/ L.grayi* | +/+1col | / | / | / | - | / | - | - | **ND** | **ND** | 2 | c |
| 2010 | **620** | **Delicatessen** | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | **PA** | **PA** | 2 | c |
| 2010 | 621 | Smoked bacon | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | **NA** | **NA** | 2 | c |
| 2010 | 805 | Fricadelles | - | - | - | - | / | / | / | - | / | / | / | - | / | - | - | **NA** | **NA** | 2 | c |
| 2018 | 5458 | Dry sausage | - | - | - | - | / | / | / | - | / | / | / | - | - | - | - | **NA** | **NA** | 2 | c |
| 2018 | 5459 | Delicatessen sausage | - | - | - | - | / | / | / | - | / | / | / | - | - | - | - | **NA** | **NA** | 2 | c |
| 2018 | 5460 | Smoked salami | - | - | - | - | / | / | / | - | / | / | / | - | - | - | - | **NA** | **NA** | 2 | c |
| 2018 | 5461 | Ham | - | - | - | st | / | / | / | st | / | / | / | - | - | - | - | **NA** | **NA** | 2 | c |

## DAIRY PRODUCTS

| Year of analysis | Sample N° | Product (English name) | Reference method: ISO 11290-1♦ | Alternative method: GeneDisc® *Listeria* DUO for the detection of *Listeria monocytogenes* | | | | | | | | | | | | | | | | Category | Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Half Fraser broth for 20 h ± 2 h at 37°C for raw milk<br>25 h ± 1 h for all other products | | | | | | | | | | | | | | | | | |
| | | | | PCR *Listeria monocytogenes* | | Confirmations | | | | | | | | All confir-matory tests | Fraser 1 24h at 37°C (ISO16140:2 requirements) | *Listeria monocytogenes* | | | | | |
| | | | | | | O&A | | | | Palcam | | | | | | | | | | | |
| | | | Result *L. monocy-togenes* ISO | Extraction A | Extraction B | Typical colonies | Gram/ Catalase | API | GeneDisc ID | Typical colonies | Gram/ catalase | API | GeneDisc ID | | | Final result PCR A | Final result PCR B | Agree-ment Ref/Alt PCR A | Agree-ment Ref/Alt PCR B | | |
| 2009 | 182 | Raw milk | - | - | +/+ | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | PPNA | 3 | a |
| 2009 | 183 | Raw milk | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 3 | a |
| 2009 | 184 | Raw milk | - | - | +/+ | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | PPNA | 3 | a |
| 2009 | 185 | Raw milk | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 3 | a |
| 2009 | 217 | Raw milk | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 3 | a |
| 2009 | 352 | Raw ewe milk | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 3 | a |
| 2009 | 353 | Raw ewe milk | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 3 | a |
| 2009 | 473 | Raw cow milk | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 3 | a |
| 2009 | 474 | Raw cow milk | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 3 | a |
| 2009 | 475 | Raw cow milk | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 3 | a |
| 2009 | 476 | Raw cow milk | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 3 | a |
| 2009 | 477 | Raw cow milk | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 3 | a |
| 2009 | 478 | Raw cow milk | + | - | - | H- | +/+ | *L.innocua/L.innocua* | *L.innocua/L.innocua* | +/+ | +/+ | / | / | - | / | - | - | ND | ND | 3 | a |
| 2009 | 479 | Raw cow milk | - | + | + | - | / | / | / | +/+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | + | / | + | + | PD | PD | 3 | a |
| 2009 | 480 | Raw cow milk | - | - | - | H- | +/+ | *L.innocua/L.innocua* | *L.innocua/L.innocua* | +/+ | +/+ | / | / | - | / | - | - | NA | NA | 3 | a |
| 2009 | 481 | Raw cow milk | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 3 | a |
| 2009 | 482 | Raw cow milk | - | - | - | H- | +/+ | *L.innocua/L.innocua* | *L.innocua/L.innocua* | +/+ | +/+ | / | / | - | / | - | - | NA | NA | 3 | a |
| 2009 | 483 | Raw cow milk | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 3 | a |
| 2009 | 484 | Raw cow milk | + | + | + | H- | +/+ | *L.innocua/L.innocua* | *L.innocua/L.innocua* | +/+ | +/+(6 colonies Camp-) | / | / | +(72h) | / | + | + | PA | PA | 3 | a |
| 2009 | 485 | Raw cow milk | - | + | + | - | / | / | / | +/+ | +/+ | *L.monocytogenes/ L.monocytogenes* | *L.monocytogenes/ L.monocytogenes* | + | / | + | + | PD | PD | 3 | a |
| 2009 | 1838 | Raw milk | - | + | - | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | - | PD | NA | 3 | a |
| 2009 | 1946 | Raw milk | - | - | - | H+/H- | +/+ | *L.innocua/ L.innocua* | *L.innocua/ L.innocua* | +/+ | +/+ | / | / | - | / | - | - | NA | NA | 3 | a |
| 2009 | 1947 | Raw milk | - | + | + | H+/H- | +/+ | *L.monocytogenes/ L.innocua* | *L.monocytogenes/ L.innocua* | +/+ | +/+ | / | / | + | / | + | + | PD | PD | 3 | a |
| 2009 | 1948 | Raw milk | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 3 | a |
| 2009 | 1949 | Raw milk | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 3 | a |
| 2009 | 1950 | Raw milk | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 3 | a |
| 2009 | 1951 | Raw milk | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 3 | a |
| 2014 | 1889 | Raw goat milk | - | - | - | - | / | / | / | - | / | / | / | - | / | - | - | NA | NA | 3 | a |
| 2014 | 1890 | Raw goat milk | - | - | - | - | / | / | / | - | / | / | / | - | / | - | - | NA | NA | 3 | a |
| 2014 | 1891 | Raw goat milk | - | - | - | - | / | / | / | st | / | / | / | - | / | - | - | NA | NA | 3 | a |
| 2014 | 1892 | Raw goat milk | - | - | - | - | / | / | / | - | / | / | / | - | / | - | - | NA | NA | 3 | a |
| 2014 | 1893 | Raw goat milk | - | - | - | - | / | / | / | st | / | / | / | - | / | - | - | NA | NA | 3 | a |
| 2014 | 1894 | Raw goat milk | - | - | - | - | / | / | / | - | / | / | / | - | / | - | - | NA | NA | 3 | a |
| 2014 | 1895 | Raw goat milk | - | - | - | - | / | / | / | - | / | / | / | - | / | - | - | NA | NA | 3 | a |
| 2014 | 1896 | Raw cow milk | - | - | - | - | / | / | / | - | / | / | / | - | / | - | - | NA | NA | 3 | a |
| 2014 | 1897 | Raw cow milk | + | - | - | - | / | / | / | - | / | / | / | - | / | - | - | ND | ND | 3 | a |
| 2014 | 1898 | Raw cow milk | - | + (38,3) | + (25,9) | H+ | +/+ | *L. monocytogenes* | / | + | / | / | / | + | / | + | + | PD | PD | 3 | a |
| 2014 | 1899 | Raw ewe milk | + | + (22,1) | + (15,5) | H+ | +/+ | *L. monocytogenes* | / | + | / | / | / | + | / | + | + | PA | PA | 3 | a |
| 2014 | 1900 | Raw ewe milk | + | + (29,8) | + (18,1) | H+ | +/+ | *L. monocytogenes* | / | + | / | / | / | + | / | + | + | PA | PA | 3 | a |
| 2014 | 1901 | Raw ewe milk | + | - | - | - | / | / | / | - | / | / | / | - | / | - | - | ND | ND | 3 | a |
| 2014 | 1902 | Raw ewe milk | + | + (30,7) | + (28,8) | H+ | +/+ | *L. monocytogenes* | / | + | / | / | / | + | / | + | + | PA | PA | 3 | a |
| 2014 | 1903 | Raw ewe milk | + | i/-*/-** | - | - | / | / | / | - | / | / | / | - | / | - | - | ND | ND | 3 | a |

♦ Analyses performed according to the COFRAC accreditation

| DAIRY PRODUCTS | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year of analysis | Sample N° | Product (English name) | Reference method: ISO 11290-1♦ | Alternative method: GeneDisc® *Listeria* DUO for the detection of *Listeria monocytogenes* | | | | | | | | | | | | | | | | Category | Type |
| | | | | Half Fraser broth for 20 h ± 2 h at 37°C for raw milk<br>25 h ± 1 h for all other products | | | | | | | | | | | | | | | | | |
| | | | | PCR *Listeria monocytogenes* | | Confirmations | | | | | | | | All confir-matory tests | Fraser 1 24h at 37°C (ISO16140:2 requirements) | *Listeria monocytogenes* | | | | | |
| | | | | | | O&A | | | | Palcam | | | | | | | | | | | |
| | | | Result *L. monocy-togenes* ISO | Extraction A | Extraction B | Typical colonies | Gram/ Catalase | API | GeneDisc ID | Typical colonies | Gram/ catalase | API | GeneDisc ID | | | Final result PCR A | Final result PCR B | Agree-ment Ref/Alt PCR A | Agree-ment Ref/Alt PCR B | | |
| 2014 | 1904 | Raw ewe milk | + | + (27,6) | + (27,0) | H+ | +/+ | *L. monocytogenes* | / | + | / | / | / | + | / | + | + | PA | PA | 3 | a |
| 2014 | 1905 | Raw ewe milk | + | + (28,7) | + (23,8) | H+ | +/+ | *L. monocytogenes* | / | + | / | / | / | + | / | + | + | PA | PA | 3 | a |
| 2014 | 1906 | Raw ewe milk | + | + (26,1) | + (21,9) | H+ | +/+ | *L. monocytogenes* | / | + | / | / | / | + | / | + | + | PA | PA | 3 | a |
| 2014 | 1907 | Raw ewe milk | + | + (27,9) | + (25,0) | H+ | +/+ | *L. monocytogenes* | / | + | / | / | / | + | / | + | + | PA | PA | 3 | a |
| 2014 | 1908 | Raw ewe milk | + | + (31,0) | + (29,8) | H+ | +/+ | *L. monocytogenes* | / | + | / | / | / | + | / | + | + | PA | PA | 3 | a |
| 2014 | 1909 | Raw ewe milk | - | - | - | - | / | / | / | - | / | / | / | - | / | - | - | NA | NA | 3 | a |
| 2014 | 1910 | Raw ewe milk | + | + (31,0) | + (27,9) | H+ | +/+ | *L. monocytogenes* | / | + | / | / | / | + | / | + | + | PA | PA | 3 | a |
| 2014 | 1911 | Raw cow milk | - | -/+ (38,7)/ + (37,2) /- | + (36,3) | H+/H-d | +/+ | *L. monocytogenes* | / | - | / | / | / | + | / | - | + | NA | PD | 3 | a |
| 2014 | 2123 | Raw ewe milk | + | + (25,0) | + (24,1) | H+ | + | *L. monocytogenes* | / | + | / | / | / | + | / | + | + | PA | PA | 3 | a |
| 2014 | 2124 | Raw ewe milk | + | + (30,1) | + (26,0) | H+ | + | *L. monocytogenes* | / | + | / | / | / | + | / | + | + | PA | PA | 3 | a |
| 2014 | 2125 | Raw ewe milk | + | + (36,9) | + (36,2) | H+/H- | +/+ | *L. monocytogenes* | / | + | / | / | / | + | / | + | + | PA | PA | 3 | a |
| 2014 | 2126 | Raw cow milk | - | - | - | - | / | / | / | - | / | / | / | - | / | - | - | NA | NA | 3 | a |
| 2014 | 2127 | Raw cow milk | - | - | - | - | / | / | / | - | / | / | / | - | / | - | - | NA | NA | 3 | a |
| 2014 | 2128 | Raw cow milk | - | - | - | - | / | / | / | - | / | / | / | - | / | - | - | NA | NA | 3 | a |
| 2014 | 2129 | Raw cow milk | - | - | - | - | / | / | / | - | / | / | / | - | / | - | - | NA | NA | 3 | a |
| 2014 | 2130 | Raw cow milk | - | - | - | - | / | / | / | - | / | / | / | - | / | - | - | NA | NA | 3 | a |
| 2014 | 2131 | Raw cow milk | - | - | - | - | / | / | / | - | / | / | / | - | / | - | - | NA | NA | 3 | a |
| 2014 | 2132 | Raw cow milk | - | - | - | - | / | / | / | - | / | / | / | - | / | - | - | NA | NA | 3 | a |
| 2014 | 2133 | Raw cow milk | - | - | - | - | / | / | / | - | / | / | / | - | / | - | - | NA | NA | 3 | a |
| 2014 | 2134 | Raw cow milk | - | - | - | - | / | / | / | - | / | / | / | - | / | - | - | NA | NA | 3 | a |
| 2014 | 2135 | Raw cow milk | - | - | - | H- | +/+ | *L. innocua* | / | + | / | / | / | - | / | - | - | NA | NA | 3 | a |
| 2014 | 2136 | Raw cow milk | - | - | - | - | / | / | / | - | / | / | / | - | / | - | - | NA | NA | 3 | a |
| 2014 | 2137 | Raw cow milk | - | - | - | - | / | / | / | - | / | / | / | - | / | - | - | NA | NA | 3 | a |
| 2014 | 2256 | Raw goat milk | - | - | - | - | - | / | / | - | / | / | / | - | / | - | - | NA | NA | 3 | a |
| 2014 | 2257 | Raw cow milk | - | - | - | st | - | / | / | - | / | / | / | - | / | - | - | NA | NA | 3 | a |
| 2014 | 2258 | Raw cow milk | - | - | - | - | - | / | / | - | / | / | / | - | / | - | - | NA | NA | 3 | a |
| 2014 | 2259 | Raw ewe milk | + | + (32,1) | + (28,9) | H+ | + | *L. monocytogenes* | / | + | / | / | / | + | / | + | + | PA | PA | 3 | a |
| 2014 | 2260 | Raw ewe milk | - | - | - | - | - | / | / | - | / | / | / | - | / | - | - | NA | NA | 3 | a |
| 2014 | 2261 | Raw ewe milk | - | - | - | - | - | / | / | - | / | / | / | - | / | - | - | NA | NA | 3 | a |
| 2014 | 2262 | Raw ewe milk | + | + (37,9) | + (37,1) | H+ | + | *L. monocytogenes* | / | - | / | / | / | + | / | + | + | PA | PA | 3 | a |
| 2014 | 2263 | Raw goat milk | + | - | - | - | - | / | / | - | / | / | / | - | / | - | - | ND | ND | 3 | a |
| 2014 | 2264 | Raw goat milk | - | - | - | - | - | / | / | - | / | / | / | - | / | - | - | NA | NA | 3 | a |
| 2014 | 2265 | Raw ewe milk | - | - | - | - | - | / | / | - | / | / | / | - | / | - | - | NA | NA | 3 | a |
| 2014 | **2338** | **Raw cow milk** | + | + (33,3) | + (29,1) | H+ | + | *L. monocytogenes* | / | + | / | / | / | + | / | + | + | PA | PA | 3 | a |
| 2014 | **2339** | **Raw cow milk** | - | - | - | H-(1) | NC | / | / | - | / | / | / | - | / | - | - | NA | NA | 3 | a |
| 2014 | **2340** | **Raw cow milk** | - | - | - | - | | / | / | - | / | / | / | - | / | - | - | NA | NA | 3 | a |
| 2014 | **2341** | **Raw cow milk** | + | + (30,3) | -/30,0 / 30,0 | H+ | + | *L. monocytogenes* | / | + | / | / | / | + | / | + | - | PA | PPND | 3 | a |
| 2014 | **2342** | **Raw cow milk** | + | -/+(38,8)/-/ +(38,2) | -/- /- | H+(2) | + | *L. monocytogenes* | / | + | / | / | / | + | / | - | - | ND | ND | 3 | a |
| 2009 | 1435 | Raw cow milk cheese | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 3 | b |
| 2009 | 1436 | Raw cow milk cheese | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 3 | b |
| 2009 | 1437 | Raw cow milk cheese | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 3 | b |
| 2009 | 1438 | Raw cow milk cheese | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 3 | b |
| 2009 | 1439 | Raw cow milk cheese | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 3 | b |
| 2009 | 1440 | Raw goat milk cheese | - | i/- | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 3 | b |
| 2009 | 1441 | Raw cow milk cheese | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 3 | b |
| 2009 | 1442 | Raw cow milk cheese | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 3 | b |

| DAIRY PRODUCTS | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year of analysis | Sample N° | Product (English name) | Reference method: ISO 11290-1♦ | Alternative method: GeneDisc® *Listeria* DUO for the detection of *Listeria monocytogenes* | | | | | | | | | | | | | | | Category | Type |
| | | | | Half Fraser broth for 20 h ± 2 h at 37°C for raw milk<br>25 h ± 1 h for all other products | | | | | | | | | | | | | | | | |
| | | | | PCR *Listeria monocytogenes* | | Confirmations | | | | | | | | All confir-matory tests | Fraser 1 24h at 37°C (ISO16140:2 requirements) | *Listeria monocytogenes* | | | | | |
| | | | | | | O&A | | | | Palcam | | | | | | | | | | | |
| | | | Result *L. monocy-togenes* ISO | Extraction A | Extraction B | Typical colonies | Gram/ Catalase | API | GeneDisc ID | Typical colonies | Gram/ catalase | API | GeneDisc ID | | | Final result PCR A | Final result PCR B | Agree-ment Ref/Alt PCR A | Agree-ment Ref/Alt PCR B | | |
| 2009 | 1443 | Raw cow milk cheese | + | - | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | - | + | ND | PA | 3 | b |
| 2009 | 1444 | Raw cow milk cheese | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 3 | b |
| 2009 | 1486 | Raw cow milk cheese | - | - | - | H+ | -/+(+ at 72H) | *L.monocytogenes* | *L.monocytogenes* | -/+ | / | / | / | + | / | - | - | NA | NA | 3 | b |
| 2009 | 1627 | Raw cow milk cheese | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 3 | b |
| 2009 | 1628 | Raw cow milk cheese | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 3 | b |
| 2009 | 1629 | Raw cow milk cheese | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 3 | b |
| 2009 | 1630 | Raw cow milk cheese | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 3 | b |
| 2009 | 1631 | Raw cow milk cheese | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 3 | b |
| 2009 | 1632 | Raw cow milk cheese | - | - | i/- | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 3 | b |
| 2009 | 1633 | Raw cow milk cheese | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 3 | b |
| 2009 | 1634 | Raw cow milk cheese | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 3 | b |
| 2009 | 1635 | Raw goat milk cheese | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 3 | b |
| 2009 | 1636 | Raw cow milk cheese | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 3 | b |
| 2009 | 1637 | Raw cow milk cheese | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 3 | b |
| 2009 | 1638 | Raw cow milk cheese | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 3 | b |
| 2009 | 1639 | Raw goat milk cheese | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 3 | b |
| 2009 | 1640 | Raw cow milk cheese | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 3 | b |
| 2009 | 1641 | Raw cow milk cheese | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | -/+ | +/+ | / | / | + | / | + | + | PA | PA | 3 | b |
| 2009 | 1643 | Raw fresh cream | + | i/- | - | - | / | / | / | -/- | / | / | / | - | / | - | - | ND | ND | 3 | b |
| 2009 | 1644 | Raw fresh cream | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 3 | b |
| 2009 | 1828 | Raw cow milk cheese | - | - | - | H- | +/+ | *L.innocua/ L.innocua* | *L.innocua/ L.innocua* | +/+ | +/+ | / | / | - | / | - | - | NA | NA | 3 | b |
| 2009 | **1829** | **Raw milk cheese** | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 3 | b |
| 2009 | 1830 | Raw cow milk cheese | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 3 | b |
| 2009 | **1833** | **Raw cow milk cheese** | + | - | - | H- | +/+ | *L.innocua/ L.innocua* | *L.innocua/ L.innocua* | +/+ | +/+ | / | / | - | / | - | - | ND | ND | 3 | b |
| 2009 | **1834** | **Raw milk cheese** | - | - | - | H- | +/+ | *L.innocua/ L.innocua* | *L.innocua/ L.innocua* | -/- | / | / | / | - | / | - | - | NA | NA | 3 | b |
| 2009 | **1837** | **Raw goat milk cheese** | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 3 | b |
| 2009 | 1839 | Raw cow milk cheese | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 3 | b |
| 2009 | **1840** | **Raw cow milk cheese** | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 3 | b |
| 2009 | 1938 | Raw milk cheese | + | + | + | H+/H- | +/+ | *L.monocytogenes/ L.innocua* | *L.monocytogenes/ L.innocua* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 3 | b |
| 2009 | 1939 | Raw milk cheese | + | + | + | H+/H- | +/+ | *L.monocytogenes/ L.innocua* | *L.monocytogenes/ L.innocua* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 3 | b |
| 2009 | 1940 | Raw milk cheese | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 3 | b |
| 2009 | 1941 | Raw milk cheese | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 3 | b |
| 2009 | 1942 | Raw milk cheese | + | + | + | H+/H- | +/+ | *L.monocytogenes/ L.innocua* | *L.monocytogenes/ L.innocua* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 3 | b |
| 2009 | 1943 | Raw milk cheese | - | + | - | H+ | +/+ | *L;monocytogenes* | *L;monocytogenes* | +/+ | +/+ | / | / | + | / | + | - | PD | NA | 3 | b |
| 2009 | 1944 | Cheese | - | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PD | PD | 3 | b |
| 2009 | 1945 | Cheese | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 3 | b |
| 2009 | 1952 | Raw milk cheese | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 3 | b |
| 2009 | 1953 | Raw milk cheese | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 3 | b |
| 2009 | 1642 | Butter | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 3 | c |
| 2009 | 1831 | Fermented milk | - | - | - | H- | +/+ | *L.innocua/ L.innocua* | *L.innocua/ L.innocua* | -/- | / | / | / | - | / | - | - | NA | NA | 3 | c |
| 2009 | 1832 | Milk powder | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 3 | c |
| 2009 | **1835** | **Fermented milk** | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 3 | c |

| DAIRY PRODUCTS | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year of analysis | Sample N° | Product (English name) | Reference method: ISO 11290-1♦ | Alternative method: GeneDisc® *Listeria* DUO for the detection of *Listeria monocytogenes* | | | | | | | | | | | | | | | Category | Type |
| | | | | Half Fraser broth for 20 h ± 2 h at 37°C for raw milk<br>25 h ± 1 h for all other products | | | | | | | | | | | | | | | | |
| | | | | PCR *Listeria monocytogenes* | | Confirmations | | | | | | | | All confir-matory tests | Fraser 1 24h at 37°C (ISO16140:2 requirements) | *Listeria monocytogenes* | | | | | |
| | | | | | | O&A | | | | Palcam | | | | | | | | | | | |
| | | | Result *L. monocy-togenes* ISO | Extraction A | Extraction B | Typical colonies | Gram/ Catalase | API | GeneDisc ID | Typical colonies | Gram/ catalase | API | GeneDisc ID | | | Final result PCR A | Final result PCR B | Agree-ment Ref/Alt PCR A | Agree-ment Ref/Alt PCR B | | |
| 2009 | **1836** | **Skimmed milk powder** | - | + | +(39,2) | -(+Fraser 1) | +/+ | *L.monocytogenes* | *L.monocytogenes* | -/-(+fraser 1) | / | / | / | + | / | + | + | **PD** | **PD** | 3 | c |
| 2009 | 1841 | Fresh cream | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | **NA** | **NA** | 3 | c |
| 2009 | **1842** | **Fresh cream** | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | -/+ | | / | / | + | / | + | + | **PA** | **PA** | 3 | c |
| 2009 | 1843 | Fermented milk | - | - | - | - | / | / | / | -/-(+/+ at 72H) | +/+ | *L.seeligeri* | *L.seeligeri* | - | / | - | - | **NA** | **NA** | 3 | c |
| 2009 | **1844** | **Fermented milk** | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | **NA** | **NA** | 3 | c |
| 2009 | **1845** | **Fermented milk** | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | **NA** | **NA** | 3 | c |
| 2009 | 1846 | Fermented milk | - | - | - | H- | +/+ | *L.seeligeri/ L.seeligeri* | *L.seeligeri/ L.seeligeri* | -/+ | +/+ | / | / | - | / | - | - | **NA** | **NA** | 3 | c |
| 2009 | **1847** | **Fermented milk** | - | + | - | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | -/+ | +/+ | / | / | + | / | + | - | **PD** | **NA** | 3 | c |
| 2009 | 1848 | Fermented milk | - | - | - | H- | +/+ | *L.innocua/ L.innocua* | *L.innocua/ L.innocua* | +/+ | +/+ | / | / | - | / | - | - | **NA** | **NA** | 3 | c |
| 2009 | **1849** | **Milk powder** | + | + | - | -(+ fraser1) | +/+ | *L.monocytogenes* | *L.monocytogenes* | -/- | / | / | / | + | / | + | - | **PA** | **ND** | 3 | c |
| 2009 | 1850 | Milk powder | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | **NA** | **NA** | 3 | c |
| 2009 | 1851 | Infant formula milk powder | - | - | - | H- | +/+ | *L.innocua/ L.innocua* | *L.innocua/ L.innocua* | +/+ | +/+ | | | - | / | - | - | **NA** | **NA** | 3 | c |
| 2009 | **1852** | **Infant formula milk powder** | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | **NA** | **NA** | 3 | c |
| 2009 | **1853** | **Milk powder** | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | **PA** | **PA** | 3 | c |
| 2009 | **1854** | **Milk powder** | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | **PA** | **PA** | 3 | c |
| 2009 | 1855 | **Milk powder** | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | **NA** | **NA** | 3 | c |
| 2018 | **4471** | **Pasteurised goat cheese** | - | - | - | - | / | / | / | - | / | / | / | - | - | - | - | **NA** | **NA** | 3 | c |
| 2018 | **4472** | **Pasteurised emmental cheese** | - | - | - | - | / | / | / | - | / | / | / | - | - | - | - | **NA** | **NA** | 3 | c |
| 2018 | **4473** | **Pasteurised** | - | +30,1 | +29,7 | H+ | +/+ | *L. monocytogenes* | *L. monocytogenes (+20,0)* | + | +/+ | / | / | + | / | + | + | **PD** | **PD** | 3 | c |
| 2018 | **5027** | **Panna cotta** | + | +23,0 | +18,4 | H+ | +/+ | *L. monocytogenes* | *L. monocytogenes (+22,8)* | + | +/+ | / | / | + | / | + | + | **PA** | **PA** | 3 | c |
| 2018 | **5028** | **Panna cotta** | + | +26,1 | +23,3 | H+ | +/+ | *L. monocytogenes* | *L. monocytogenes (+22,8)* | + | +/+ | / | / | + | / | + | + | **PA** | **PA** | 3 | c |
| 2018 | **5029** | **Rice pudding** | + | - | - | - | / | / | / | - | / | / | / | - | - | - | - | **ND** | **ND** | 3 | c |

| VEGETABLES | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year of analysis | Sample N° | Product (English name) | Reference method: ISO 11290-1♦ | Alternative method: GeneDisc® *Listeria* DUO for the detection of *Listeria monocytogenes* | | | | | | | | | | | | | | | | Category | Type |
| | | | | Half Fraser broth for 20 h ± 2 h at 37°C for raw milk<br>25 h ± 1 h for all other products | | | | | | | | | | | | | | | | | |
| | | | | PCR *Listeria monocytogenes* | | Confirmations | | | | | | | | All confir-matory tests | Fraser 1 24h at 37°C (ISO16140:2 requirements) | *Listeria monocytogenes* | | | | | |
| | | | | | | O&A | | | | Palcam | | | | | | | | | | | |
| | | | Result *L. monocy-togenes* ISO | Extraction A | Extraction B | Typical colonies | Gram/ Catalase | API | GeneDisc ID | Typical colonies | Gram/ catalase | API | GeneDisc ID | | | Final result PCR A | Final result PCR B | Agree-ment Ref/Alt PCR A | Agree-ment Ref/Alt PCR B | | |
| 2010 | 2030 | Parsley | - | - | +/+ | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | PPNA | 4 | a |
| 2010 | 170 | Delicatessen | + | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | ND | ND | 4 | a |
| 2010 | 492 | Mushrooms | + | + | + | H+/H- | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 4 | a |
| 2010 | 494 | Vegetables | + | + | + | H- | NC | / | / | +/+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | + | / | + | + | PA | PA | 4 | a |
| 2010 | 551 | Mash | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 4 | a |
| 2010 | 552 | Lettuce | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 4 | a |
| 2010 | 553 | White cabbage | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 4 | a |
| 2010 | 554 | Link | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 4 | a |
| 2010 | 555 | Endives | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 4 | a |
| 2010 | 556 | Salad | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 4 | a |
| 2010 | 557 | Salad | - | - | - | d | nc | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 4 | a |
| 2010 | 558 | Salad | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 4 | a |
| 2010 | **901** | **Brussels sprouts** | + | - | - | H- | -/- | / | / | -/- | / | / | / | - | / | - | - | ND | ND | 4 | a |
| 2010 | **902** | **Lettuce** | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 4 | a |
| 2010 | **905** | **Mash** | + | + | - | -(+ Fraser1)) | +/+ | *L.monocytogenes* | *L.monocytogenes* | -/- | | / | / | + | / | + | - | PA | ND | 4 | a |
| 2010 | **906** | **Endives** | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 4 | a |
| 2010 | **907** | **Red cabbage** | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 4 | a |
| 2010 | **908** | **Broccolis** | + | + | + | H+/H- | +/+ | *L.monocytogenes/ L.innocua* | *L.monocytogenes/ L.innocua* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 4 | a |
| 2010 | **909** | **Chinese cabbage** | + | - | + | - | / | / | / | -/- | / | / | / | + (72h) | / | - | + | ND | PA | 4 | a |
| 2018 | 5462 | Zucchini | - | - | - | - | / | / | / | - | / | / | / | - | - | - | - | NA | NA | 4 | a |
| 2018 | 5463 | Leeks | - | - | - | - | / | / | / | - | / | / | / | - | - | - | - | NA | NA | 4 | a |
| 2010 | 2012 | Frozen fries | - | - | - | H- | - | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 4 | b |
| 2010 | 2013 | Frozen green sliced peppers | - | - | - | H- | - | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 4 | b |
| 2010 | 2015 | Frozen green peppers | - | - | - | H- | +/- | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 4 | b |
| 2010 | 2017 | Fried onions | - | - | - | H- | +/- | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 4 | b |
| 2010 | 2018 | Frozen broccolis | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 4 | b |
| 2010 | 2020 | Frozen red peppers | - | - | - | H-(1) | +/- | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 4 | b |
| 2010 | 2021 | Frozen fried apples | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 4 | b |
| 2010 | 2025 | Frozen red peppers | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 4 | b |
| 2010 | 2029 | Frozen fries | - | + | + | +/+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PD | PD | 4 | b |
| 2010 | **911** | **Frozen mushrooms** | - | + | + | H+ | +/+ | *impossible to isolate* | *L.monocytogenes/ L.innocua* | +/+ | +/+ | / | / | + | / | + | + | PD | PD | 4 | b |
| 2010 | **912** | **Vegetables mix** | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 4 | b |
| 2010 | **913** | **Frozen vegetables mix** | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 4 | b |
| 2010 | **914** | **Frozen sliced links** | - | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PD | PD | 4 | b |
| 2010 | **915** | **Frozen cauliflower** | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 4 | b |
| 2010 | **916** | **Frozen vegetables mix** | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 4 | b |
| 2010 | 941 | Frozen vegetables mix | - | - | - | H- | +/+ | *L.seeligeri/ L.seeligeri* | *L.seeligeri/ L.seeligeri* | -/- | / | / | / | - | / | - | - | NA | NA | 4 | b |
| 2010 | 942 | Frozen vegetables mix | - | - | - | H- | +/+ | *L.seeligeri/ L.seeligeri* | *L.seeligeri/ L.seeligeri* | -/+1col | / | / | / | - | / | - | - | NA | NA | 4 | b |
| 2018 | 4323 | Frozen peppers | - | - | - | - | / | / | / | - | / | / | / | - | - | - | - | NA | NA | 4 | b |
| 2018 | **4474** | **Frozen vegetables mix** | - | - | - | - | / | / | / | - | / | / | / | - | - | - | - | NA | NA | 4 | b |
| 2018 | **4475** | **Frozen vegetables mix** | - | +19,6 | +29,4 | H+ | +/+ | *L. monocytogenes* | *L. monocytogenes (+20,3)* | + | +/+ | / | / | + | / | + | + | PD | PD | 4 | b |

♦ Analyses performed according to the COFRAC accreditation

## VEGETABLES

| Year of analysis | Sample N° | Product (English name) | Reference method: ISO 11290-1♦ | Alternative method: GeneDisc® *Listeria* DUO for the detection of *Listeria monocytogenes* | | | | | | | | | | | | | | | | Category | Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Half Fraser broth for 20 h ± 2 h at 37°C for raw milk<br>25 h ± 1 h for all other products | | | | | | | | | | | | | | | | | |
| | | | | PCR *Listeria monocytogenes* | | Confirmations | | | | | | | | All confir-matory tests | Fraser 1 24h at 37°C (ISO16140:2 requirements) | *Listeria monocytogenes* | | | | | |
| | | | | | | O&A | | | | Palcam | | | | | | | | | | | |
| | | | Result *L. monocy-togenes* ISO | Extraction A | Extraction B | Typical colonies | Gram/ Catalase | API | GeneDisc ID | Typical colonies | Gram/ catalase | API | GeneDisc ID | | | Final result PCR A | Final result PCR B | Agree-ment Ref/Alt PCR A | Agree-ment Ref/Alt PCR B | | |
| 2018 | **4476** | **Frozen vegetables mix** | + | -/+36,4/+39,7 | +31,6 | H-d | NC | / | / | - | / | / | / | +(Fraser 1) | + (*L. monocy-togenes*) | - | + | ND | PA | 4 | b |
| 2018 | **4477** | **Frozen vegetables mix** | - | - | - | - | / | / | / | - | / | / | / | - | - | - | - | NA | NA | 4 | b |
| 2018 | **4478** | **Frozen vegetables mix** | + | +35,7 | +28,4 | H+ | +/+ | *L. monocytogenes* | *L. monocytogenes (+19,5)* | + | +/+ | / | / | + | / | + | + | PA | PA | 4 | b |
| 2018 | **4479** | **Frozen vegetables mix** | + | +37,5 | +31,9 | - | / | / | / | - | / | / | / | +(Fraser 1) | + (*L. monocy-togenes*) | + | + | PA | PA | 4 | b |
| 2018 | **4480** | **Frozen vegetables mix** | - | +25,6 | +18,7 | H+ | +/+ | *L. monocytogenes* | *L. monocytogenes (+19,2)* | + | +/+ | / | / | + | / | + | + | PD | PD | 4 | b |
| 2010 | 2016 | Cooked potatoes | - | - | - | H- | +/- | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 4 | c |
| 2010 | 2026 | Frozen spinach with cream | + | + | + | H+/H- | +/+ | *L.monocytogenes/ L.innocua* | *L.monocytogenes/ L.innocua* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 4 | c |
| 2010 | 559 | Sliced carrots | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 4 | c |
| 2010 | **903** | **Cooked vegetables** | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 4 | c |
| 2010 | **904** | **Sliced carrots** | - | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PD | PD | 4 | c |
| 2010 | 1049 | Deli salad | - | - | - | H- | +/+ | / | / | +/+ | +/+ | *L.innocua/ L.innocua* | *L.innocua/ L.innocua* | - | / | - | - | NA | NA | 4 | c |
| 2018 | 4319 | Frozen vegetable mix | + | +35,1 | +34,2 | H+ | +/+ | *L. monocytogenes* | *L. monocytogenes (+18,7)* | + | +/+ | *L. monocytogenes* | *L. monocytogenes (+19,3)* | + | / | + | + | PA | PA | 4 | c |
| 2018 | 4320 | Frozen mushrooms | - | - | - | - | / | / | / | - | / | / | / | - | - | - | - | NA | NA | 4 | c |
| 2018 | 4321 | RTRH Purée | - | +30 | +31,6 | H+ | +/+ | *L. monocytogenes* | *L. monocytogenes (+18,2)* | - | / | / | / | + | / | + | + | PD | PD | 4 | c |
| 2018 | 4324 | RTRH potatoes with butter | + | +22,4 | +22,6 | H+ | +/+ | *L. monocytogenes* | *L. monocytogenes (+18,9)* | +d | +/+ | *L. monocytogenes* | *L. monocytogenes (+19,3)* | + | / | + | + | PA | PA | 4 | c |
| 2018 | **4381** | **RTRH carrots** | - | - | - | st | / | / | / | - | / | / | / | - | - | - | - | NA | NA | 4 | c |
| 2018 | **4382** | **RTE vegetables mix** | - | +31,4 | +22,4 | H+/H- | +/+ | *L. monocytogenes / L. innocua* | *L. monocytogenes (+21,9) / L. innocua (+19,7)* | + | +/+ | *L. innocua* | *L. innocua (+17,7)* | + | / | + | + | PD | PD | 4 | c |
| 2018 | **4383** | **RTE vegetables mix** | - | - | - | - | / | / | / | - | / | / | / | - | - | - | - | NA | NA | 4 | c |
| 2018 | **4384** | **RTRH vegetables mix (for wok)** | - | +32,4 | +27,4 | H+/H- | +/+ | *L. monocytogenes / L. innocua* | *L. monocytogenes (+25,4) / L. innocua (+18,3)* | + | +/+ | *L. innocua* | *L. innocua (+17,4)* | + | / | + | + | PD | PD | 4 | c |
| 2018 | **4385** | **Vegetables nuggets** | + | +27,3 | +20,9 | H+/H- | +/+ | *L. monocytogenes / L. innocua* | *L. monocytogenes (+17,5) / L. innocua (+18,3)* | - | / | / | / | + | / | + | + | PA | PA | 4 | c |
| 2018 | **4386** | **Vegetables balls** | + | +26,7 | +28,0 | H+d/H-d | +/+ | *NI / L. welshimeri* | *L. monocytogenes (+22,5)/ -/-/-* | +d | +/+ | *L. monocytogenes* | *L. monocytogenes (+20,1)* | + | / | + | + | PA | PA | 4 | c |
| 2018 | **4387** | **Vegetable couscous** | + | +23,3 | +24,0 | H+ | +/+ | *L. monocytogenes* | *L. monocytogenes (+20,8)* | - | / | / | / | + | / | + | + | PA | PA | 4 | c |
| 2018 | **4388** | **RTRH vegetables cake** | - | - | - | - | / | / | / | - | / | / | / | - | - | - | - | NA | NA | 4 | c |
| 2018 | **4389** | **Vegetables falafels** | + | +28,2 | +24,8 | H+ | +/+ | *L. monocytogenes* | *L. monocytogenes (+17,6)* | - | / | / | / | + | - | + | + | PA | PA | 4 | c |
| 2018 | 04975 | RTE vegetables (cabbage, radish, carrots) | - | - | - | - | / | / | / | - | / | / | / | - | - | - | - | NA | NA | 4 | c |
| 2018 | 04976 | RTRH vegetables mix (carrot, leek, celery) | - | - | - | - | / | / | / | - | / | / | / | - | - | - | - | NA | NA | 4 | c |
| 2018 | 04977 | RTE cucumber with cream | - | - | - | - | / | / | / | - | / | / | / | - | - | - | - | NA | NA | 4 | c |
| 2018 | 04978 | Macedoine | - | - | - | - | / | / | / | - | / | / | / | - | - | - | - | NA | NA | 4 | c |
| 2018 | 04979 | Coleslaw | - | - | - | - | / | / | / | - | / | / | / | - | - | - | - | NA | NA | 4 | c |
| 2018 | 04980 | Sliced carrots | - | - | - | - | / | / | / | - | / | / | / | - | - | - | - | NA | NA | 4 | c |
| 2018 | 04981 | Macedoine | - | - | - | - | / | / | / | - | / | / | / | - | - | - | - | NA | NA | 4 | c |

| FISHERY PRODUCTS | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
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| | | | | Half Fraser broth for 20 h ± 2 h at 37°C for raw milk<br>25 h ± 1 h for all other products | | | | | | | | | | | | | | | | | |
| | | | | PCR *Listeria monocytogenes* | | Confirmations | | | | | | | | All confir-matory tests | Fraser 1 24h at 37°C (ISO16140:2 requirements) | *Listeria monocytogenes* | | | | | |
| | | | | | | O&A | | | | Palcam | | | | | | | | | | | |
| | | | Result *L. monocy-togenes* ISO | Extraction A | Extraction B | Typical colonies | Gram/ Catalase | API | GeneDisc ID | Typical colonies | Gram/ catalase | API | GeneDisc ID | | | Final result PCR A | Final result PCR B | Agree-ment Ref/Alt PCR A | Agree-ment Ref/Alt PCR B | | |
| 2010 | 2054 | Tuna | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 5 | a |
| 2010 | 2056 | Fish fillet | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 5 | a |
| 2010 | 2061 | Skate fillet | - | - | +/+ | - | / | / | / | +/+ | -/+ | / | / | - | / | - | - | NA | PPNA | 5 | a |
| 2010 | 2062 | Raw salmon pulp | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 5 | a |
| 2010 | 2064 | Panag fillet | + | + | + | H+/H- | +/+ | *L.monocytogenes/ L.innocua* | *L.monocytogenes/ L.innocua* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 5 | a |
| 2010 | 88 | Fish fillet | - | - | - | H+ | +/+ | *L.innocua/ L.innocua* | *L.innocua/ L.innocua* | + | +/+ | / | / | - | / | - | - | NA | NA | 5 | a |
| 2010 | 90 | salmon | - | - | - | - | / | / | / | - | / | / | / | - | / | - | - | NA | NA | 5 | a |
| 2010 | 211 | Salmon fillet | + | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | ND | ND | 5 | a |
| 2010 | 213 | Salmon | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 5 | a |
| 2010 | 215 | Raw fish fillet | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 5 | a |
| 2010 | 242 | Frozen raw fish fillet | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 5 | a |
| 2010 | 243 | Frozen raw fish fillet | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 5 | a |
| 2010 | 354 | Salmon | + | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | ND | ND | 5 | a |
| 2010 | 654 | Salmon fillet | - | +(35,1) | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PD | PD | 5 | a |
| 2010 | 655 | Bass fillet | - | +(32,3) | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PD | PD | 5 | a |
| 2010 | 895 | Sea bream | - | - | - | - | / | / | / | - | / | / | / | - | / | - | - | NA | NA | 5 | a |
| 2010 | 896 | Tuna | - | - | - | - | / | / | / | - | / | / | / | - | / | - | - | NA | NA | 5 | a |
| 2010 | 897 | Cuttelfish | - | - | - | - | / | / | / | - | / | / | / | - | / | - | - | NA | NA | 5 | a |
| 2010 | 899 | Fish fillet | - | - | - | - | / | / | / | - | / | / | / | - | / | - | - | NA | NA | 5 | a |
| 2010 | 900 | Fish fillet | - | - | - | - | / | / | / | - | / | / | / | - | / | - | - | NA | NA | 5 | a |
| 2010 | **920** | **Frozen tuna** | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 5 | a |
| 2010 | 923 | Frozen fish fillet | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 5 | a |
| 2010 | 926 | Fish fillet | - | - | - | H- | +/+ | *L.innocua/ L.innocua* | *L.innocua/ L.innocua* | +/+ | +/+ | / | / | - | / | - | - | NA | NA | 5 | a |
| 2010 | 927 | Whiting fillet | - | - | - | H- | +/+ | *L.innocua/ L.innocua* | *L.innocua/ L.innocua* | +/+ | +/+ | / | / | - | / | - | - | NA | NA | 5 | a |
| 2010 | 932 | Crayfish | - | - | - | H- | +/+ | *L.innocua/ L.innocua* | *L.innocua/ L.innocua* | +/+ | +/+ | / | / | - | / | - | - | NA | NA | 5 | a |
| 2010 | 933 | Shrimps | - | - | - | H- | +/+ | *L.innocua/ L.innocua* | *L.innocua/ L.innocua* | +/+ | +/+ | / | / | - | / | - | - | NA | NA | 5 | a |
| 2010 | 939 | Mackerel | - | - | - | H- | +/+ | *L.innocua/ L.innocua* | *L.innocua/ L.innocua* | +/+ | / | / | / | - | / | - | - | NA | NA | 5 | a |
| 2010 | 940 | Frozen sea bream | - | - | - | H- | +/+ | *L.seeligeri/ L.seeligeri* | *L.seeligeri/ L.seeligeri* | +/+ | / | / | / | - | / | - | - | NA | NA | 5 | a |
| 2010 | 2051 | Smoked salmon | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 5 | b |
| 2010 | 2058 | Smoked salmon | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 5 | b |
| 2010 | 2172 | Smoked salmon pieces | - | - | + | -(+ Fraser 1) | +/+ | *L.monocytogenes/ L.grayi* | *L.mono/ L.grayi* | -/- | / | / | / | + | / | - | + | NA | PD | 5 | b |
| 2010 | 83 | Smoked salmon pieces | - | - | - | - | / | / | / | - | / | / | / | - | / | - | - | NA | NA | 5 | b |
| 2010 | 210 | Smoked salmon | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 5 | b |
| 2010 | 214 | Smoked salmon | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 5 | b |
| 2010 | 355 | Smoked salmon | + | +(37,4) | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 5 | b |
| 2010 | 356 | Smoked salmon | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 5 | b |
| 2010 | 357 | Smoked salmon | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 5 | b |

♦ Analyses performed according to the COFRAC accreditation

| FISHERY PRODUCTS | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
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| | | | | PCR *Listeria monocytogenes* | | Confirmations | | | | | | | | All confir-matory tests | Fraser 1 24h at 37°C (ISO16140:2 requirements) | *Listeria monocytogenes* | | | | | |
| | | | | | | O&A | | | | Palcam | | | | | | | | | | | |
| | | | Result *L. monocy-togenes* ISO | Extraction A | Extraction B | Typical colonies | Gram/ Catalase | API | GeneDisc ID | Typical colonies | Gram/ catalase | API | GeneDisc ID | | | Final result PCR A | Final result PCR B | Agree-ment Ref/Alt PCR A | Agree-ment Ref/Alt PCR B | | |
| 2010 | 358 | Smoked tuna | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 5 | b |
| 2010 | 359 | Smoked tuna | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 5 | b |
| 2010 | 360 | Haddock | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 5 | b |
| 2010 | 361 | Smoked salmon | + | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | ND | ND | 5 | b |
| 2010 | 888 | Smoked tuna | - | - | - | - | / | / | / | - | / | / | / | - | / | - | - | NA | NA | 5 | b |
| 2010 | 889 | Haddock | - | - | - | - | / | / | / | - | / | / | / | - | / | - | - | NA | NA | 5 | b |
| 2010 | 890 | Smoked mackerel | - | - | - | - | / | / | / | - | / | / | / | - | / | - | - | NA | NA | 5 | b |
| 2010 | **919** | **Somed peppered mackerel** | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 5 | b |
| 2010 | 935 | Smoked haddock | - | - | - | H- | +/+ | *L.seeligeri/ L.seeligeri* | *L.seeligeri/ L.seeligeri* | +/+ | +/+ | / | / | - | / | - | - | NA | NA | 5 | b |
| 2010 | 936 | Smoked tuna | - | - | - | H- | +/+ | *L.seeligeri/ L.seeligeri* | *L.seeligeri/ L.seeligeri* | +/+ | +/+ | / | / | - | / | - | - | NA | NA | 5 | b |
| 2018 | **4481** | **Smoked herring** | - | - | - | - | / | / | / | - | / | / | / | - | - | - | - | NA | NA | 5 | b |
| 2018 | **4482** | **Smoked mackerel** | - | +32,2 | +28,3 | H+ | +/+ | *L. monocytogenes* | *L. monocytogenes (+22,1)* | + | +/+ | / | / | + | / | + | + | PD | PD | 5 | b |
| 2018 | 4483 | Smoked trout | - | - | - | st | / | / | / | - | / | / | / | - | - | - | - | NA | NA | 5 | b |
| 2010 | 2052 | Salmon tartar | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 5 | c |
| 2010 | 2053 | Cooked fish fillet | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 5 | c |
| 2010 | 2055 | Mussels | + | + | + | H+/H- | +/+ | *L.monocytogenes/ L.innocua* | *L.monocytogenes/ L.innocua* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 5 | c |
| 2010 | 2057 | Cooked mussels | + | + | + | d | - | / | / | +1col | +/+ | *L. innocua* | *L.innocua* | - | / | - | - | PPND | PPND | 5 | c |
| 2010 | 2059 | Cod fillet | + | + | + | H+ | +/+ | *L.monocytogenes/ L.monocytogenes* | *L.monocytogenes/ L;monocytogenes* | -/+1col | +/- | / | / | + | / | + | + | PA | PA | 5 | c |
| 2010 | 2060 | Cooked calmar | + | + | + | H+/H- | +/+ | *L.monocytogenes/ L.innocua* | *L.monocytogenes/ L.innocua* | +1col | +/+ | / | / | + | / | + | + | PA | PA | 5 | c |
| 2010 | 2063 | Seafood cocktail | - | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PD | PD | 5 | c |
| 2010 | 2065 | Fish balls | + | + | + | H+ | +/+ | *L.monocytogenes/ L.monocytogenes* | *L.monocytogenes/ L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 5 | c |
| 2010 | 2069 | Cooked dab fillet | - | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | -/- | / | / | / | + | / | + | + | PD | PD | 5 | c |
| 2010 | 491 | Seafood cocktail | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 5 | c |
| 2010 | 891 | Cooked marinated shrimps | - | - | - | - | / | / | / | - | / | / | / | - | / | - | - | NA | NA | 5 | c |
| 2010 | 892 | Cooked mussels | - | - | - | - | / | / | / | - | / | / | / | - | / | - | - | NA | NA | 5 | c |
| 2010 | 893 | Cooked scallops | - | - | - | - | / | / | / | - | / | / | / | - | / | - | - | NA | NA | 5 | c |
| 2010 | 894 | Surimi | - | - | - | - | / | / | / | - | / | / | / | - | / | - | - | NA | NA | 5 | c |
| 2010 | 898 | Fish balls | - | - | - | - | / | / | / | - | / | / | / | - | / | - | - | NA | NA | 5 | c |
| 2010 | **918** | **Frozen surimi** | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 5 | c |
| 2010 | **921** | **Fish balls** | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 5 | c |
| 2010 | **922** | **Cooked mussels** | + | + | + | H+ | +/+ | *L.monocytogenes* | *L.monocytogenes* | +/+ | +/+ | / | / | + | / | + | + | PA | PA | 5 | c |
| 2010 | 928 | Cooked marinated shrimps | - | - | - | H- | +/+ | *L.innocua/ L.innocua* | *L.innocua/ L.innocua* | +/+ | +/+ | / | / | - | / | - | - | NA | NA | 5 | c |
| 2010 | 929 | Cooked crab (rillettes) | - | - | - | H- | +/+ | *L.seeligeri/ L.seeligeri* | *L.seeligeri/ L.seeligeri* | -/- | / | / | / | - | / | - | - | NA | NA | 5 | c |
| 2010 | 930 | Cooked tuna (Rilletes) | - | - | - | H-(1) | +/+ | *L.seeligeri* | *L.seeligeri* | -/- | / | / | / | - | / | - | - | NA | NA | 5 | c |
| 2010 | 931 | Trout tarama | - | - | - | H- | -/+ | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 5 | c |
| 2010 | 934 | Cooked scallops | - | - | - | -/- | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 5 | c |
| 2010 | 937 | Cooked mussels | - | - | - | H- | -/+ | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 5 | c |
| 2010 | 938 | Scallops terrine | - | - | - | - | / | / | / | -/- | / | / | / | - | / | - | - | NA | NA | 5 | c |

| ENVIRONMENTAL SAMPLES | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year of analysis | Sample N° | Product (English name) | Reference method: ISO 11290-1♦ | Alternative method: GeneDisc® *Listeria* DUO for the detection of *Listeria monocytogenes* | | | | | | | | | | | | | | | | Category | Type |
| | | | | Half Fraser broth for 20 h ± 2 h at 37°C for raw milk<br>25 h ± 1 h for all other products | | | | | | | | | | | | | | | | | |
| | | | | PCR *Listeria monocytogenes* | | Confirmations | | | | | | | | All confir-matory tests | Fraser 1 24h at 37°C (ISO16140:2 requirements) | *Listeria monocytogenes* | | | | | |
| | | | | | | O&A | | | | Palcam | | | | | | | | | | | |
| | | | Result *L. monocy-togenes* ISO | Extraction A | Extraction B | Typical colonies | Gram/ Catalase | API | GeneDisc ID | Typical colonies | Gram/ catalase | API | GeneDisc ID | | | Final result PCR A | Final result PCR B | Agree-ment Ref/Alt PCR A | Agree-ment Ref/Alt PCR B | | |
| 2018 | **4485** | Rinse water (Fish industry) | + | - | - | - | / | / | / | - | / | / | / | - | - | - | - | ND | ND | 6 | a |
| 2018 | **4486** | Rinse water (Fish industry) | - | - | - | st | / | / | / | st | / | / | / | - | - | - | - | NA | NA | 6 | a |
| 2018 | **4487** | Rinse water (Fish industry) | - | - | - | st | / | / | / | st | / | / | / | - | - | - | - | NA | NA | 6 | a |
| 2018 | **6077** | **Rinse water (dairy industry)** | + | +26,3 | +23,7 | H+ | +/+ | *L. monocytogenes* | *L. monocytogenes (+21,0)* | + | +/+ | / | / | + | / | + | + | PA | PA | 6 | a |
| 2018 | **6078** | **Rinse water (Meat Industry)** | + | +33,9 | +31,5 | H+ | +/+ | *L. monocytogenes* | *L. monocytogenes (+21,8)* | + | +/+ | / | / | + | / | + | + | PA | PA | 6 | a |
| 2018 | **6079** | **Process water (Meat Industry)** | + | +27,1 | +27,5 | H+ | +/+ | *L. monocytogenes* | *L. monocytogenes (+22,0)* | - | / | / | / | + | / | + | + | PA | PA | 6 | a |
| 2018 | **6080** | **Process water (Meat Industry)** | - | - | - | - | / | / | / | - | / | / | / | - | - | - | - | NA | NA | 6 | a |
| 2018 | **6081** | **Rinse water (Industry of milk)** | + | +24,3 | +24,7 | H+ | +/+ | *L. monocytogenes* | *L. monocytogenes (+22,2)* | + | +/+ | / | / | + | / | + | + | PA | PA | 6 | a |
| 2018 | **6082** | **Washing water (Industry of milk)** | - | - | - | st | / | / | / | st | / | / | / | - | - | - | - | NA | NA | 6 | a |
| 2018 | **6083** | **Rinse water (production of chocolate spread)** | - | - | - | - | / | / | / | - | / | / | / | - | - | - | - | NA | NA | 6 | a |
| 2018 | **6084** | **Rinse water (vegetable sausage)** | + | - | - | - | / | / | / | - | / | / | / | - | - | - | - | ND | ND | 6 | a |
| 2018 | **6085** | **Washing water (Fish industry)** | + | +22,3 | +18,0 | H+ | +/+ | *L. monocytogenes* | *L. monocytogenes (+22,8)* | + | +/+ | / | / | + | / | + | + | PA | PA | 6 | a |
| 2018 | **6086** | **Process water (Fish Industry)** | + | +25,7 | +21,7 | H+ | +/+ | *L. monocytogenes* | *L. monocytogenes (+21,3)* | + | +/+ | / | / | + | / | + | + | PA | PA | 6 | a |
| 2018 | **6087** | **Rinse water (Fish industry)** | - | - | - | - | / | / | / | - | / | / | / | - | - | - | - | NA | NA | 6 | a |
| 2018 | **6088** | **Process water (Fish Industry)** | + | +24,6 | +23,1 | H+ | +/+ | *L. monocytogenes* | *L. monocytogenes (+21,9)* | + | +/+ | / | / | + | / | + | + | PA | PA | 6 | a |
| 2018 | **6089** | **Process water (Fish Industry)** | + | - | - | st | / | / | / | st | / | / | / | - | - | - | - | ND | ND | 6 | a |
| 2018 | **6090** | **Process water (Meat Industry)** | + | +27,2 | +23,1 | H+ | +/+ | *L. monocytogenes* | *L. monocytogenes (+22,5)* | + | +/+ | / | / | + | / | + | + | PA | PA | 6 | a |
| 2018 | 6382 | Washing water | - | - | - | st | / | / | / | st | / | / | / | - | st | - | - | NA | NA | 6 | a |
| 2018 | 6383 | Rinse water | - | - | - | H- | +/+ | *L. innocua* | *L. innocua (+25,4)* | + | +/+ | / | / | - | / | - | - | NA | NA | 6 | a |
| 2018 | 6384 | Washing water | - | - | - | st | / | / | / | st | / | / | / | - | st | - | - | NA | NA | 6 | a |
| 2018 | **6091** | **Sponge (Meat industry)** | + | +28,4 | +19,6 | H+ | +/+ | *L. monocytogenes* | *L. monocytogenes (+20,5)* | + | +/+ | / | / | + | / | + | + | PA | PA | 6 | b |
| 2018 | **6092** | **Sponge (Meat industry)** | + | +30,0 | +25,0 | H+ | +/+ | *L. monocytogenes* | *L. monocytogenes (+20,4)* | + | +/+ | / | / | + | / | + | + | PA | PA | 6 | b |
| 2018 | **6873** | **Swab (Fish industry)** | - | - | - | st | / | / | / | st | / | / | / | - | st | - | - | NA | NA | 6 | b |
| 2018 | **6874** | **Swab (Fish industry)** | - | +25,4 | +24,5 | H+ | +/+ | *L. monocytogenes* | *L. monocytogenes (+22,0)* | + | +/+ | / | / | + | / | + | + | PD | PD | 6 | b |
| 2018 | **6875** | **Wipe (Meat industry)** | + | +26,8 | +24,8 | H+ | +/+ | *L. monocytogenes* | *L. monocytogenes (+22,6)* | + | +/+ | / | / | + | / | + | + | PA | PA | 6 | b |
| 2018 | **6876** | **Wipe (Meat industry)** | + | +28,0 | +32,0 | H+ | +/+ | *L. monocytogenes* | *L. monocytogenes (+23,0)* | + | +/+ | / | / | + | / | + | + | PA | PA | 6 | b |
| 2018 | **6877** | **Wipe (Fish production)** | + | +32,5 | +25,3 | H+ | +/+ | *L. monocytogenes* | *L. monocytogenes (+22,0)* | - | / | / | / | + | / | + | + | PA | PA | 6 | b |
| 2018 | **6878** | **Wipe (Sausage production)** | + | - | - | - | / | / | / | - | / | / | / | - | - | - | - | ND | ND | 6 | b |

♦ Analyses performed according to the COFRAC accreditation

| ENVIRONMENTAL SAMPLES | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year of analysis | Sample N° | Product (English name) | Reference method: ISO 11290-1♦ | Alternative method: GeneDisc® *Listeria* DUO for the detection of *Listeria monocytogenes* | | | | | | | | | | | | | | | | Category | Type |
| | | | | Half Fraser broth for 20 h ± 2 h at 37°C for raw milk<br>25 h ± 1 h for all other products | | | | | | | | | | | | | | | | | |
| | | | | PCR *Listeria monocytogenes* | | Confirmations | | | | | | | | All confir-matory tests | Fraser 1 24h at 37°C (ISO16140:2 requirements) | *Listeria monocytogenes* | | | | | |
| | | | | | | O&A | | | | Palcam | | | | | | | | | | | |
| | | | Result *L. monocy-togenes* ISO | Extraction A | Extraction B | Typical colonies | Gram/ Catalase | API | GeneDisc ID | Typical colonies | Gram/ catalase | API | GeneDisc ID | | | Final result PCR A | Final result PCR B | Agree-ment Ref/Alt PCR A | Agree-ment Ref/Alt PCR B | | |
| 2018 | **6879** | **Sponge (Fish industry)** | + | +26,2 | +21,7 | H+/H- | +/+ | *L. monocytogenes / L. innocua* | *L. monocytogenes (+24,0) / L. innocua (+22,6)* | + | +/+ | / | / | + | / | + | + | PA | PA | 6 | b |
| 2018 | **6880** | **Sponge (Fish industry)** | - | +28,3 | +27,3 | H+ | +/+ | *L. monocytogenes* | *L. monocytogenes (+22,6)* | + | +/+ | / | / | + | / | + | + | PD | PD | 6 | b |
| 2018 | 6881 | Wipe (Vegetable sausage production) | - | - | - | - | / | / | / | - | / | / | / | - | - | - | - | NA | NA | 6 | b |
| 2018 | 6882 | Wipe (Vegetable sausage production) | - | - | - | - | / | / | / | - | / | / | / | - | - | - | - | NA | NA | 6 | b |
| 2018 | 6883 | Wipe after cleaning (Fish industry) | - | - | - | - | / | / | / | - | / | / | / | - | st | - | - | NA | NA | 6 | b |
| 2018 | 6884 | Wipe (Fish industry) | - | - | - | st | / | / | / | st | / | / | / | - | st | - | - | NA | NA | 6 | b |
| 2018 | 6885 | Wipe (Meat industry) | - | - | - | - | / | / | / | - | / | / | / | - | - | - | - | NA | NA | 6 | b |
| 2018 | 6886 | Wipe (Fish industry) | - | - | - | - | / | / | / | - | / | / | / | - | - | - | - | NA | NA | 6 | b |
| 2018 | 6887 | Wipe (Vegetable ham production) | - | - | - | st | / | / | / | st | / | / | / | - | st | - | - | NA | NA | 6 | b |
| 2018 | 6888 | Swab (Fish industry) | - | - | - | st | / | / | / | st | / | / | / | - | st | - | - | NA | NA | 6 | b |
| 2018 | 6889 | Swab (Fish industry) | - | - | - | st | / | / | / | st | / | / | / | - | st | - | - | NA | NA | 6 | b |
| 2018 | 7091 | | - | - | - | - | / | / | / | - | / | / | / | - | - | - | - | NA | NA | 6 | b |
| 2018 | 7092 | Wipe after cleaning (Meat industry) | - | - | - | - | / | / | / | - | / | / | / | - | - | - | - | NA | NA | 6 | b |
| 2018 | 7093 | Wipe before cleaning (Meat industry) | - | - | - | st | / | / | / | - | / | / | / | - | - | - | - | NA | NA | 6 | b |
| 2018 | 7094 | Wipe after cleaning (Production of Vegetable ham)) | - | - | - | - | / | / | / | - | / | / | / | - | - | - | - | NA | NA | 6 | b |
| 2018 | 7095 | Swab (Meat industry) | - | - | - | - | / | / | / | - | / | / | / | - | - | - | - | NA | NA | 6 | b |
| 2018 | **5030** | **Residues (vegetable ham)** | + | - | - | H- | +/+ | *L. seeligeri* | *L. seeligeri (+23,0)* | - | / | / | / | - | - | - | - | ND | ND | 6 | c |
| 2018 | **5031** | **Residues (vegetable sausage)** | + | +24,7 | +20,1 | H+ | +/+ | *L. monocytogenes* | *L. monocytogenes (+21,8)* | + | +/+ | / | / | + | / | + | + | PA | PA | 6 | c |
| 2018 | **5032** | **Residues (vegetable sausage)** | + | +28,8 | +29,1 | H+ | +/+ | *NI (L. monocytogenes at 72h)* | *L. monocytogenes (+22,1)* | + (1) | +/+ | / | / | + | / | + | + | PA | PA | 6 | c |
| 2018 | **5033** | **Floor residues (Seafood industry)** | + | - | - | H- | +/+ | *L. innocua* | *L. innocua (+21,4)* | + | +/+ | / | / | - | / | - | - | ND | ND | 6 | c |
| 2018 | **5034** | **Residues (apple)** | + | +30,6 | +25,4 | H+ | +/+ | *L. monocytogenes* | *L. monocytogenes (+20,6)* | - | / | / | / | + | / | + | + | PA | PA | 6 | c |
| 2018 | **5035** | **Floor residues (Fish industry)** | + | +33,8 | +30,6 | -d (H+/H- after 72h) | - | *NI/NC (L. monocytogenes and L. innocua after 72h)* | - | - | / | / | / | + | / | + | + | PA | PA | 6 | c |
| 2018 | **5036** | **Poultry residues (Poultry industry)** | - | +34,17 | +32,5 | H- (H+ after 72h) | +/+ | *L. innocua (L. monocytogenes after 72h)* | *L. innocua (+21,4)* | + | +/+ | / | / | + | / | + | + | PD | PD | 6 | c |
| 2018 | **5037** | **Fish residues (Fish industry)** | + | +35,0 | +29,0 | H+ | +/+ | *L. monocytogenes* | *L. monocytogenes (+22,3)* | + | +/+ | / | / | + | / | + | + | PA | PA | 6 | c |
| 2018 | **5038** | **Fish residues (Fish industry)** | + | +23,0 | +21,5 | H+ | +/+ | *L. monocytogenes* | *L. monocytogenes (+22,4)* | + | +/+ | / | / | + | / | + | + | PA | PA | 6 | c |
| 2018 | 5039 | Sausage residues | - | - | - | - | / | / | / | - | / | / | / | - | - | - | - | NA | NA | 6 | c |
| 2018 | 5040 | Fish residues (Fish industry) | - | - | - | - | / | / | / | - | / | / | / | - | - | - | - | NA | NA | 6 | c |

| ENVIRONMENTAL SAMPLES | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year of analysis | Sample N° | Product (English name) | Reference method: ISO 11290-1♦ | Alternative method: GeneDisc® *Listeria* DUO for the detection of *Listeria monocytogenes* | | | | | | | | | | | | | | | | | Category | Type |
| | | | | Half Fraser broth for 20 h ± 2 h at 37°C for raw milk<br>25 h ± 1 h for all other products | | | | | | | | | | | | | | | | | | |
| | | | | PCR *Listeria monocytogenes* | | Confirmations | | | | | | | | All confir-matory tests | Fraser 1 24h at 37°C (ISO16140:2 requirements) | *Listeria monocytogenes* | | | | | |
| | | | | | | O&A | | | | Palcam | | | | | | | | | | | |
| | | | Result *L. monocy-togenes* ISO | Extraction A | Extraction B | Typical colonies | Gram/ Catalase | API | GeneDisc ID | Typical colonies | Gram/ catalase | API | GeneDisc ID | | | Final result PCR A | Final result PCR B | Agree-ment Ref/Alt PCR A | Agree-ment Ref/Alt PCR B | | |
| 2018 | 5041 | Residues (Seafood industry) | - | - | - | st | / | / | / | - | / | / | / | - | - | - | - | NA | NA | 6 | c |
| 2018 | 5042 | Residues with spices (Seafood industry) | - | - | - | - | / | / | / | - | / | / | / | - | - | - | - | NA | NA | 6 | c |
| 2018 | 5043 | Residues vegetable ham | - | - | - | - | / | / | / | - | / | / | / | - | - | - | - | NA | NA | 6 | c |
| 2018 | 5044 | Residues vegetable sausage | - | - | - | - | / | / | / | - | / | / | / | - | - | - | - | NA | NA | 6 | c |
| 2018 | 5045 | Residues apple | - | - | - | - | / | / | / | - | / | / | / | - | - | - | - | NA | NA | 6 | c |
| 2018 | **6374** | **Dusts (Dairy industry)** | + | +27,6 | +28,3 | H+d/H-d | +/+ | *L. monocytogenes/ L. monocytogenes* | *L. monocytogenes (+21,9)/ L. monocytogenes (+20,1)* | + | +/+ | / | / | + | / | + | + | PA | PA | 6 | c |
| 2018 | **6375** | **Dusts (Dairy industry)** | + | +28,4 | +27,6 | H+/H-d(NC) | +/+ | *L. mononcytogenes / NI* | *L. monocytogenes (+19,6) / -* | - | / | / | / | + | / | + | + | PA | PA | 6 | c |
| 2018 | **6376** | **Dusts (Dairy industry)** | + | +34,4 | +34,9 | H+ | +/+ | *L. monocytogenes* | *L. monocytogenes (+24,8)* | - | / | / | / | + | / | + | + | PA | PA | 6 | c |
| 2018 | **6377** | **Dusts (Dairy industry)** | + | +35,8 | +34,3 | H+ | +/+ | *L. monocytogenes* | *L. monocytogenes (+20,2)* | - | / | / | / | + | / | + | + | PA | PA | 6 | c |
| 2018 | **6378** | **Dusts (Dairy industry)** | + | +29,0 | +26,9 | H+ | +/+ | *L. monocytogenes* | *L. monocytogenes (+20,8)* | +(1) | +/+ | / | / | + | / | + | + | PA | PA | 6 | c |
| 2018 | **6379** | **Dusts (Dairy industry)** | + | +26,9 | +24,3 | H+ | +/+ | *L. monocytogenes* | *L. monocytogenes (+23,6)* | + | +/+ | / | / | + | / | + | + | PA | PA | 6 | c |
| 2018 | **6380** | **Dusts (Dairy industry)** | + | +35,0 | +32,3 | H+d | +/+ | *L. monocytogenes* | *L. monocytogenes (+18,8)* | - | / | / | / | + | / | + | + | PA | PA | 6 | c |
| 2018 | **6381** | **Dusts (Dairy industry)** | + | +29,0 | +26,5 | H+ | +/+ | *L. monocytogenes* | *L. monocytogenes (+24,9)* | - | / | / | / | + | / | + | + | PA | PA | 6 | c |
| 2018 | **6468** | **Dusts (Dairy industry)** | + | +34,2 | +32,9 | - (H+ after subculture in Fraser) | / | / | *L. monocytogenes (+22,5) at 72h* | - (+ at 72h) | / | / | / | + | H+ (*L. monocy-togenes*) | + | + | PA | PA | 6 | c |
| 2018 | **6469** | **Dusts (Dairy industry)** | - | - | - | - | / | / | / | - | / | / | / | - | - | - | - | NA | NA | 6 | c |
| 2018 | **6470** | **Dusts (Dairy industry)** | - | +28,9 | +29,4 | - | / | / | / | +d | +/+ | *L. monocytogenes* | *L. monocytogenes (+21,09)* | + (Fraser 1) | H+ | + | + | PD | PD | 6 | c |
| 2018 | **6471** | **Dusts (Dairy industry)** | + | +27,9 | +30,2 | - (H+ at 72h) | / | / | *L. monocytogenes (+22,2) at 72h* | - (+ at 72h) | / | / | / | + | H+ | + | + | PA | PA | 6 | c |
| 2018 | **6472** | **Dusts (Dairy industry)** | + | +23,4 | +27,1 | H+ | +/+ | *L. monocytogenes* | *L. monocytogenes (+22,3)* | + | +/+ | / | / | + | H+ | + | + | PA | PA | 6 | c |
| 2018 | **6473** | **Dusts (Dairy industry)** | + | +27,4 | +28,3 | - (H+ at 72h) | / | / | *L. monocytogenes (+22,3) at 72h* | - (+ at 72h) | / | / | / | + | H+ | + | + | PA | PA | 6 | c |

| COMPOSITE FOODS | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Year of analysis | Sample N° | Product (English name) | Reference method: ISO 11290-1♦ | Alternative method: GeneDisc® Listeria DUO for the detection of *Listeria monocytogenes* After storage for 72 h at 5°C ± 3°C | | | | | Category | Type |
| | | | Result *L. monocytogenes* ISO | PCR *Listeria monocytogenes* | Confirmations | | Final result | Agreement | | |
| | | | | Protocol A | O&A | Palcam | | | | |
| 2010 | 2028 | Salad (scallops and prawns) | + | + | + | + | + | PA | 1 | a |
| 2010 | 493 | Cooked rice | + | + | + | + | + | PA | 1 | a |
| 2010 | **910** | **Raw vegetables mix** | + | + | + | + | + | PA | 1 | a |
| 2010 | 943 | Chinese deli salad | - | - | + | + | - | NA | 1 | a |
| 2010 | 944 | Spring rolls | - | - | + | - | - | NA | 1 | a |
| 2010 | 1041 | Tabouleh | - | - | + | + | - | NA | 1 | a |
| 2010 | 1043 | Deli salad (celery) | - | - | + | + | - | NA | 1 | a |
| 2010 | 1044 | Deli salad (rice) | - | - | + | + | - | NA | 1 | a |
| 2010 | 1045 | Deli salad (Pièmontaise) | - | - | + | + | - | NA | 1 | a |
| 2010 | 1046 | Deli salad | - | - | + | + | - | NA | 1 | a |
| 2010 | 1047 | Cabbage salad | - | - | + | + | - | NA | 1 | a |
| 2010 | 1048 | Tuna deli salad | - | - | + | + | - | NA | 1 | a |
| 2018 | 4322 | RTE Salad with pasta | + | +32,1 | H+d | +d | + | PA | 1 | a |
| 2018 | **4390** | **Sandwich with ham and cheese** | + | - | - | - | - | ND | 1 | a |
| 2018 | **4391** | **Sandwich with ham and cheese** | - | +21,7 | H+ | + | + | PD | 1 | a |
| 2018 | **4392** | **Tabouleh** | - | - | - | - | - | NA | 1 | a |
| 2018 | **4393** | **Sandwich with ham and butter** | - | +21,9 | H+ | + | + | PD | 1 | a |
| 2018 | **4396** | **Sandwich with ham and cheddar** | - | +22,1 | H+ | + | + | PD | 1 | a |
| 2018 | **4397** | **Salad with ham** | + | - | - | - | - | ND | 1 | a |
| 2010 | 2134 | Pizza | + | + | + | + | + | PA | 1 | b |
| 2010 | 2135 | Brioche with sausage | - | + | + | + | + | PD | 1 | b |
| 2010 | 2175 | Pie | - | - | - | - | - | NA | 1 | b |
| 2010 | 181 | Ready to reheat meal | + | + | + | + | + | PA | 1 | b |
| 2010 | 495 | Pie | - | + | + | + | + | PD | 1 | b |
| 2010 | 653 | Burger | + | + | + | + | + | PA | 1 | b |
| 2010 | **917** | **Frozen peas and sliced bacon** | + | + | + | + | + | PA | 1 | b |
| 2010 | 1042 | Pasta with surimi | - | - | + | + | - | NA | 1 | b |
| 2010 | 1050 | Pie | - | - | + | + | - | NA | 1 | b |
| 2010 | 1051 | Pie | - | - | + | + | - | NA | 1 | b |
| 2010 | 1052 | Pizza | - | - | + | + | - | NA | 1 | b |
| 2010 | 1053 | Pie | - | - | + | + | - | NA | 1 | b |
| 2018 | **4399** | **Couscous** | - | +23,7 | H+ | + | + | PD | 1 | b |
| 2018 | **4400** | **RTRH food** | + | - | - | - | - | ND | 1 | b |
| 2018 | **4401** | **RTRH food** | - | +23,1 | H+ | + | + | PD | 1 | b |
| 2018 | **4402** | **RTRH food** | - | +22,7 | H+ | + | + | PD | 1 | b |
| 2018 | **4403** | **RTRH food** | - | +20,8 | H+ | + | + | PD | 1 | b |
| 2010 | 2128 | Preparation for pancakes | - | - | - | - | - | NA | 1 | c |
| 2010 | 2131 | Omelette | + | + | + | + | + | PA | 1 | c |
| 2010 | 2132 | Preparation for pancakes | - | + | + | + | + | PD | 1 | c |
| 2010 | 2136 | Omelette | + | + | + | + | + | PA | 1 | c |
| 2010 | 2139 | Chocolate cake | - | + | - | - | - | PPNA | 1 | c |
| 2010 | 2177 | Omelette | + | + | + | + | + | PA | 1 | c |
| 2010 | 212 | Omelette | + | - | - | - | - | ND | 1 | c |
| 2018 | **4375** | **Pastry** | - | +27,6 | H+/H- | + | + | PD | 1 | c |
| 2018 | **4376** | **Pastry** | + | - | H- | + | - | ND | 1 | c |

♦ Analyses performed according to the COFRAC accreditation

| COMPOSITE FOODS | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Year of analysis | Sample N° | Product (English name) | **Reference method: ISO 11290-1♦** | **Alternative method: GeneDisc® Listeria DUO for the detection of *Listeria monocytogenes*** | | | | | Category | Type |
| | | | | **After storage for 72 h at 5°C ± 3°C** | | | | | | |
| | | | Result *L. monocytogenes* ISO | PCR *Listeria monocytogenes* | Confirmations | | Final result | Agreement | | |
| | | | | Protocol A | O&A | Palcam | | | | |
| 2018 | **4377** | **Pastry** | - | - | - | - | **-** | **NA** | 1 | c |
| 2018 | **4378** | **Tortilla with ham** | - | - | H- | + | **-** | **NA** | 1 | c |
| 2018 | **4379** | **Tortilla** | - | - | - | - | **-** | **NA** | 1 | c |
| 2018 | **4380** | **Tortilla with onions** | + | - | - | - | **-** | **ND** | 1 | c |
| 2018 | **5023** | **Tortilla** | + | - | - | - | **-** | **ND** | 1 | c |
| 2018 | **5024** | **Tortilla with onions** | + | +23,6 | H+ | + | **+** | **PA** | 1 | c |
| 2018 | **5026** | **Pastry** | - | +22,8 | H+ | + | **+** | **PD** | 1 | c |

| MEAT PRODUCTS | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Year of analysis | Sample N° | Product (English name) | Reference method: ISO 11290-1♦ | Alternative method: GeneDisc® Listeria DUO for the detection of *Listeria monocytogenes* After storage for 72 h at 5°C ± 3°C | | | | | Category | Type |
| | | | Result *L. monocytogenes* ISO | PCR *Listeria monocytogenes* | Confirmations | | Final result | Agreement | | |
| | | | | Protocol A | O&A | Palcam | | | | |
| 2010 | 2090 | Ground veal | + | + | + | + | + | PA | 2 | a |
| 2010 | 2095 | Pork meat | + | + | + | + | + | PA | 2 | a |
| 2010 | 2098 | Chicken leg | + | + | + | + | + | PA | 2 | a |
| 2010 | 2133 | Ground veal | - | - | + | + | - | NA | 2 | a |
| 2010 | 89 | Ground beef | + | + | + | + | + | PA | 2 | a |
| 2010 | 165 | Ground veal | + | + | + | + | + | PA | 2 | a |
| 2010 | 166 | Ground veal | + | + | + | + | + | PA | 2 | a |
| 2010 | 173 | Raw pork meat | - | + | + | + | + | PD | 2 | a |
| 2010 | 174 | Raw pork meat | - | - | +/-(L.welshimeri) | + | - | NA | 2 | a |
| 2010 | 175 | Raw pork meat | + | + | + | + | + | PA | 2 | a |
| 2010 | 177 | Raw pork meat | - | - | + | + | - | NA | 2 | a |
| 2010 | 179 | Turkey meat | + | + | + | + | + | PA | 2 | a |
| 2010 | 180 | Turkey meat | + | + | + | + | + | PA | 2 | a |
| 2010 | 363 | Frozen ground beef | + | + | + | + | + | PA | 2 | a |
| 2010 | 364 | Frozen ground beef | + | - | + | + | - | ND | 2 | a |
| 2010 | 399 | Ground beef | - | - | + | + | - | NA | 2 | a |
| 2010 | 486 | Ground beef | - | - | + | + | - | NA | 2 | a |
| 2010 | 487 | Ground beef | - | - | - | - | - | NA | 2 | a |
| 2010 | 497 | Delicatessen | - | + | + | + | + | PD | 2 | a |
| 2010 | 530 | Ground beef | + | + | + | + | + | PA | 2 | a |
| 2010 | 534 | Lamb meat | - | - | + | + | - | NA | 2 | a |
| 2010 | 537 | Pork meat | - | - | + | + | - | NA | 2 | a |
| 2010 | 539 | Beef meat | - | - | + | + | - | NA | 2 | a |
| 2010 | 542 | Sheep meat | - | - | + | + | - | NA | 2 | a |
| 2010 | 543 | Lamb meat | - | - | + | + | - | NA | 2 | a |
| 2010 | 544 | Turkey meat | - | - | + | + | - | NA | 2 | a |
| 2010 | 613 | **Lam meat** | - | - | + | - | - | NA | 2 | a |
| 2010 | 614 | **Lamb meat** | - | - | + | - | - | NA | 2 | a |
| 2010 | 615 | **Pork meat** | - | - | + | - | - | NA | 2 | a |
| 2010 | 616 | **Pork meat** | - | - | + | - | - | NA | 2 | a |
| 2010 | **617** | **Pork meat** | + | + | + | + | + | PA | 2 | a |
| 2010 | 753 | Pork meat | - | - | + | + | - | NA | 2 | a |
| 2010 | 754 | Beef meat | - | - | + | + | - | NA | 2 | a |
| 2010 | 755 | Beef meat | - | - | + | + | - | NA | 2 | a |
| 2010 | 756 | Beef meat | - | - | + | + | - | NA | 2 | a |
| 2010 | 757 | Veal meat | - | - | + | + | - | NA | 2 | a |
| 2010 | 758 | Pork meat | - | - | + | + | - | NA | 2 | a |
| 2010 | 759 | Pork meat | - | - | + | + | - | NA | 2 | a |
| 2010 | 761 | Ground beef | - | - | - | - | - | NA | 2 | a |
| 2010 | 2087 | Skewer | - | - | + | + | - | NA | 2 | b |
| 2010 | 2096 | Beef balls | - | - | + | + | - | NA | 2 | b |
| 2010 | 2097 | Cockerel skewer | + | + | + | + | + | PA | 2 | b |
| 2010 | 176 | Cured turkey meat | + | + | + | + | + | PA | 2 | b |
| 2010 | 178 | Turkey meat with pepper | + | + | + | + | + | PA | 2 | b |
| 2010 | 336 | Cooked turkey meat | + | + | + | + | + | PA | 2 | b |

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| MEAT PRODUCTS | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
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| | | | | Protocol A | O&A | Palcam | | | | |
| 2010 | 337 | Cooked turkey meat | - | + | + | + | + | PD | 2 | b |
| 2010 | 362 | Frozen beef with onions | - | - | - | - | - | NA | 2 | b |
| 2010 | 400 | Seasoned ground beef | - | + | + | + | + | PD | 2 | b |
| 2010 | 535 | Picada | + | + | + | + | + | PA | 2 | b |
| 2010 | 545 | Pork meat | - | - | - | - | - | NA | 2 | b |
| 2010 | 762 | Duck meat | - | + | + | + | + | PD | 2 | b |
| 2010 | 2085 | Merguez | + | + | + | + | + | PA | 2 | c |
| 2010 | 2092 | Sausage | + | +(35,3) | + | + | + | PA | 2 | c |
| 2010 | 2093 | Smoked sliced bacon | - | + | + | + | + | PD | 2 | c |
| 2010 | 2129 | Sausages with herbs | - | - | + | + | - | NA | 2 | c |
| 2010 | 2138 | Raw rillettes | + | + | + | + | + | PA | 2 | c |
| 2010 | 86 | Sausages with herbs | + | - | + | + | - | ND | 2 | c |
| 2010 | 87 | Sausages | + | + | + | + | + | PA | 2 | c |
| 2010 | 490 | Salami | - | + | + | + | + | PD | 2 | c |
| 2010 | 528 | Merguez | + | + | + | + | + | PA | 2 | c |
| 2010 | 529 | Merguez | + | + | + | + | + | PA | 2 | c |
| 2010 | 531 | Sausages | + | + | + | + | + | PA | 2 | c |
| 2010 | 533 | Meat for sausage | + | + | + | + | + | PA | 2 | c |
| 2010 | 536 | Sausages with herbs | + | - | + | + | - | ND | 2 | c |
| 2010 | 540 | Sausages with herbs | - | + | + | + | + | PD | 2 | c |
| 2010 | **619** | **Delicatessen** | + | +(36,2) | + | + | + | PA | 2 | c |
| 2010 | **620** | **Delicatessen** | + | + | + | + | + | PA | 2 | c |
| 2010 | 621 | Smoked bacon | - | - | - | - | - | NA | 2 | c |

| DAIRY PRODUCTS | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
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| | | | Result *L. monocytogenes* ISO | PCR *Listeria monocytogenes* | Confirmations | | Final result | Agreement | | |
| | | | | Protocol A | O&A | Palcam | | | | |
| 2009 | 182 | Raw milk | - | - | - | - | - | NA | 3 | a |
| 2009 | 183 | Raw milk | - | - | - | - | - | NA | 3 | a |
| 2009 | 184 | Raw milk | - | - | - | - | - | NA | 3 | a |
| 2009 | 352 | Raw ewe milk | + | + | + | + | + | PA | 3 | a |
| 2009 | 353 | Raw ewe milk | + | + | + | + | + | PA | 3 | a |
| 2009 | 475 | Raw cow milk | - | - | - | - | - | NA | 3 | a |
| 2009 | 478 | Raw cow milk | + | - | + | + | - | ND | 3 | a |
| 2009 | 479 | Raw cow milk | - | + | + | + | + | PD | 3 | a |
| 2009 | 480 | Raw cow milk | - | - | + | + | - | NA | 3 | a |
| 2009 | 481 | Raw cow milk | - | - | - | - | - | NA | 3 | a |
| 2009 | 482 | Raw cow milk | - | - | + | + | - | NA | 3 | a |
| 2009 | 484 | Raw cow milk | + | + | + | + | + | PA | 3 | a |
| 2009 | 485 | Raw cow milk | - | + | + | + | + | PD | 3 | a |
| 2009 | 1838 | Raw milk | - | + | + | + | + | PD | 3 | a |
| 2009 | 1946 | Raw milk | - | - | + | + | - | NA | 3 | a |
| 2009 | 1947 | Raw milk | - | + | + | + | + | PD | 3 | a |
| 2009 | 1948 | Raw milk | - | - | - | - | - | NA | 3 | a |
| 2009 | 1949 | Raw milk | - | - | - | - | - | NA | 3 | a |
| 2014 | 1897 | Raw cow milk | + | - | - | - | - | ND | 3 | a |
| 2014 | 1898 | Raw cow milk | - | + (28,9) | H+ | + | + | PD | 3 | a |
| 2014 | 1899 | Raw ewe milk | + | + (16,8) | H+ | + | + | PA | 3 | a |
| 2014 | 1900 | Raw ewe milk | + | + (21,8) | H+ | + | + | PA | 3 | a |
| 2014 | 1901 | Raw ewe milk | + | - | - | - | - | ND | 3 | a |
| 2014 | 1902 | Raw ewe milk | + | + (21,7) | H+ | + | + | PA | 3 | a |
| 2014 | 1903 | Raw ewe milk | + | - | - | - | - | ND | 3 | a |
| 2014 | 1904 | Raw ewe milk | + | + (23,1) | H+ | + | + | PA | 3 | a |
| 2014 | 1905 | Raw ewe milk | + | + (21,8) | H+ | + | + | PA | 3 | a |
| 2014 | 1906 | Raw ewe milk | + | + (19,9) | H+ | + | + | PA | 3 | a |
| 2014 | 1907 | Raw ewe milk | + | + (21,7) | H+ | + | + | PA | 3 | a |
| 2014 | 1908 | Raw ewe milk | + | + (33,0) | H+ | + | + | PA | 3 | a |
| 2014 | 1910 | Raw ewe milk | + | + (25,3) | H+ | + | + | PA | 3 | a |
| 2014 | 1911 | Raw cow milk | - | + (34,7) | H+ | + (3) | + | PD | 3 | a |
| 2014 | 2123 | Raw ewe milk | + | + (23,1) | H+ | + | + | PA | 3 | a |
| 2014 | 2124 | Raw ewe milk | + | + (22,8) | H+ | + | + | PA | 3 | a |
| 2014 | 2125 | Raw ewe milk | + | + (35,4) | H+/H- | + | + | PA | 3 | a |
| 2014 | 2131 | Raw cow milk | - | - | - | - | - | NA | 3 | a |
| 2014 | 2135 | Raw cow milk | - | - | H- | + | - | NA | 3 | a |
| 2014 | 2259 | Raw ewe milk | + | +(29,9) | H+ | + | + | PA | 3 | a |
| 2014 | 2262 | Raw ewe milk | + | +(36,0) | H+ | + | + | PA | 3 | a |
| 2014 | 2263 | Raw goat milk | + | - | - | - | - | ND | 3 | a |
| 2014 | **2338** | **Raw cow milk** | + | +(31,7) | H+ | + | + | PA | 3 | a |
| 2014 | **2339** | **Raw cow milk** | - | - | st | - | - | NA | 3 | a |
| 2014 | **2341** | **Raw cow milk** | + | +(28,8) | H+ | + | + | PA | 3 | a |
| 2014 | **2342** | **Raw cow milk** | + | -/- /- | H+(2) | + | - | ND | 3 | a |
| 2009 | 1435 | Raw cow milk cheese | + | + | + | + | + | PA | 3 | b |

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| DAIRY PRODUCTS | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
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| | | | | Protocol A | O&A | Palcam | | | | |
| 2009 | 1436 | Raw cow milk cheese | + | + | + | + | + | PA | 3 | b |
| 2009 | 1437 | Raw cow milk cheese | + | + | + | + | + | PA | 3 | b |
| 2009 | 1438 | Raw cow milk cheese | + | + | + | + | + | PA | 3 | b |
| 2009 | 1439 | Raw cow milk cheese | + | + | + | + | + | PA | 3 | b |
| 2009 | 1440 | Raw goat milk cheese | - | - | - | - | - | NA | 3 | b |
| 2009 | 1441 | Raw cow milk cheese | + | + | + | + | + | PA | 3 | b |
| 2009 | 1442 | Raw cow milk cheese | + | + | + | + | + | PA | 3 | b |
| 2009 | 1443 | Raw cow milk cheese | + | + | + | + | + | PA | 3 | b |
| 2009 | 1444 | Raw cow milk cheese | + | + | + | + | + | PA | 3 | b |
| 2009 | 1486 | Raw cow milk cheese | - | + | + | + | + | PD | 3 | b |
| 2009 | 1638 | Raw cow milk cheese | - | - | - | - | - | NA | 3 | b |
| 2009 | 1640 | Raw cow milk cheese | + | + | + | + | + | PA | 3 | b |
| 2009 | 1641 | Raw cow milk cheese | + | + | + | + | + | PA | 3 | b |
| 2009 | 1643 | Raw fresh cream | + | - | - | - | - | ND | 3 | b |
| 2009 | 1828 | Raw cow milk cheese | - | - | + | + | - | NA | 3 | b |
| 2009 | 1830 | Raw cow milk cheese | - | i/- | - | - | - | NA | 3 | b |
| 2009 | **1833** | **Raw cow milk cheese** | + | - | + | + | - | ND | 3 | b |
| 2009 | **1834** | **Raw milk cheese** | - | - | - | - | - | NA | 3 | b |
| 2009 | 1839 | Raw cow milk cheese | - | - | - | - | - | NA | 3 | b |
| 2009 | **1840** | **Raw cow milk cheese** | - | - | - | - | - | NA | 3 | b |
| 2009 | 1938 | Raw milk cheese | + | + | + | + | + | PA | 3 | b |
| 2009 | 1939 | Raw milk cheese | + | + | + | + | + | PA | 3 | b |
| 2009 | 1940 | Raw milk cheese | + | + | + | + | + | PA | 3 | b |
| 2009 | 1941 | Raw milk cheese | + | + | + | + | + | PA | 3 | b |
| 2009 | 1942 | Raw milk cheese | + | + | + | + | + | PA | 3 | b |
| 2009 | 1943 | Raw milk cheese | - | + | + | + | + | PD | 3 | b |
| 2009 | 1944 | Cheese | - | + | + | + | + | PD | 3 | b |
| 2009 | 1945 | Cheese | - | - | - | - | - | NA | 3 | b |
| 2009 | 1952 | Raw milk cheese | - | - | - | - | - | NA | 3 | b |
| 2009 | 1831 | Fermented milk | - | - | - | - | - | NA | 3 | c |
| 2009 | 1832 | Milk powder | - | - | - | - | - | NA | 3 | c |
| 2009 | **1836** | **Skimmed milk powder** | - | + | + | + | + | PD | 3 | c |
| 2009 | 1841 | Fresh cream | - | -/- | + | + | - | NA | 3 | c |
| 2009 | **1842** | **Fresh cream** | + | + | + | + | + | PA | 3 | c |
| 2009 | 1843 | Fermented milk | - | + | + | + | + | PD | 3 | c |
| 2009 | 1846 | Fermented milk | - | - | + | + | - | NA | 3 | c |
| 2009 | **1847** | **Fermented milk** | - | + | + | + | + | PD | 3 | c |
| 2009 | 1848 | Fermented milk | - | + | + | - | + | PD | 3 | c |
| 2009 | **1849** | **Milk powder** | + | +(36,1) | +/- | - | - | PPND | 3 | c |
| 2009 | 1850 | Milk powder | - | - | - | - | - | NA | 3 | c |
| 2009 | 1851 | Infant formula milk powder | - | - | + | + | - | NA | 3 | c |
| 2009 | **1852** | **Infant formula milk powder** | - | - | - | - | - | NA | 3 | c |
| 2009 | **1853** | **Milk powder** | + | + | + | + | + | PA | 3 | c |
| 2009 | **1854** | **Milk powder** | + | + | + | + | + | PA | 3 | c |
| 2018 | **4473** | **Pasteurised** | - | +27,9 | H+ | + | + | PD | 3 | c |
| 2018 | **5027** | **Panna cotta** | + | +22,1 | H+ | + | + | PA | 3 | c |
| 2018 | **5028** | **Panna cotta** | + | +21,0 | H+ | + | + | PA | 3 | c |
| 2018 | **5029** | **Rice pudding** | + | - | H+d (NC) | - | - | ND | 3 | c |

| VEGETABLES | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
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| | | | | Protocol A | O&A | Palcam | | | | |
| 2010 | 170 | Delicatessen | + | - | - | - | - | ND | 4 | a |
| 2010 | 492 | Mushrooms | + | + | + | + | + | PA | 4 | a |
| 2010 | 494 | Vegetables | + | + | + | + | + | PA | 4 | a |
| 2010 | **901** | **Brussels sprouts** | + | - | +1col(NC) | - | - | ND | 4 | a |
| 2010 | **902** | **Lettuce** | + | + | + | + | + | PA | 4 | a |
| 2010 | **905** | **Mash** | + | + | + | - | + | PA | 4 | a |
| 2010 | **906** | **Endives** | + | + | + | + | + | PA | 4 | a |
| 2010 | **907** | **Red cabbage** | + | + | + | + | + | PA | 4 | a |
| 2010 | **908** | **Broccolis** | + | + | + | + | + | PA | 4 | a |
| 2010 | **909** | **Chinese cabbage** | + | + | + | - | + | PA | 4 | a |
| 2010 | 2015 | Frozen green peppers | - | - | - | - | - | NA | 4 | b |
| 2010 | 2017 | Fried onions | - | - | - | - | - | NA | 4 | b |
| 2010 | 2020 | Frozen red peppers | - | - | - | - | - | NA | 4 | b |
| 2010 | 2029 | Frozen fries | - | + | + | + | + | PD | 4 | b |
| 2010 | **911** | **Frozen mushrooms** | - | + | + | + | + | PD | 4 | b |
| 2010 | **912** | **Vegetables mix** | + | + | + | + | + | PA | 4 | b |
| 2010 | **913** | **Frozen vegetables mix** | + | + | + | + | + | PA | 4 | b |
| 2010 | **914** | **Frozen sliced links** | - | + | + | + | + | PD | 4 | b |
| 2010 | **915** | **Frozen cauliflower** | + | + | + | + | + | PA | 4 | b |
| 2010 | **916** | **Frozen vegetables mix** | + | + | + | + | + | PA | 4 | b |
| 2010 | 941 | Frozen vegetables mix | - | - | + | + | - | NA | 4 | b |
| 2010 | 942 | Frozen vegetables mix | - | - | - | - | - | NA | 4 | b |
| 2018 | **4475** | **Frozen vegetables mix** | - | +19,2 | H+ | + | + | PD | 4 | b |
| 2018 | **4476** | **Frozen vegetables mix** | + | +27,7 | H+ (after subculture in Fraser) | + (after subculture in Fraser) | + | PA | 4 | b |
| 2018 | **4477** | **Frozen vegetables mix** | - | - | - | - | - | NA | 4 | b |
| 2018 | **4478** | **Frozen vegetables mix** | + | +27,3 | H+ | + | + | PA | 4 | b |
| 2018 | **4479** | **Frozen vegetables mix** | + | +30,1 | H+ (after subculture in Fraser) | + (after subculture in Fraser) | + | PA | 4 | b |
| 2018 | **4480** | **Frozen vegetables mix** | - | +17,4 | H+ | + | + | PD | 4 | b |
| 2010 | 2016 | Cooked potatoes | - | - | - | - | - | NA | 4 | c |
| 2010 | 2026 | Frozen spinach with cream | + | + | + | + | + | PA | 4 | c |
| 2010 | **903** | **Cooked vegetables** | + | + | + | + | + | PA | 4 | c |
| 2010 | **904** | **Sliced carrots** | - | + | + | + | + | PD | 4 | c |
| 2010 | 1049 | Deli salad | - | - | + | + | - | NA | 4 | c |
| 2018 | 4319 | Frozen vegetable mix | + | +29,2 | H+ | + | + | PA | 4 | c |
| 2018 | 4321 | RTRH Purée | - | +26,8 | H+ | + | + | PD | 4 | c |
| 2018 | 4324 | RTRH potatoes with butter | + | +17,3 | H+ | + | - | ND | 4 | c |
| 2018 | **4382** | **RTE vegetables mix** | - | +19,8 | H+/H- | + | + | PD | 4 | c |
| 2018 | **4384** | **RTRH vegetables mix (for wok)** | - | +23,0 | H+/H- | + | + | PD | 4 | c |
| 2018 | **4385** | **Vegetables nuggets** | + | +22,9 | H+/H- | + | + | PA | 4 | c |
| 2018 | **4386** | **Vegetables balls** | + | +23,8 | H+/H- | + | + | PA | 4 | c |
| 2018 | **4387** | **Vegetable couscous** | + | +15,6 | H+ | + | + | PA | 4 | c |
| 2018 | **4388** | **RTRH vegetables cake** | - | - | - | - | - | NA | 4 | c |
| 2018 | **4389** | **Vegetables falafels** | + | +26,7 | H+ | + | + | PA | 4 | c |

♦ Analyses performed according to the COFRAC accreditation

| FISHERY PRODUCTS | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Year of analysis | Sample N° | Product (English name) | Reference method: ISO 11290-1♦ | Alternative method: GeneDisc® Listeria DUO for the detection of *Listeria monocytogenes* After storage for 72 h at 5°C ± 3°C | | | | | Category | Type |
| | | | Result *L. monocytogenes* ISO | PCR *Listeria monocytogenes* | Confirmations | | Final result | Agreement | | |
| | | | | Protocol A | O&A | Palcam | | | | |
| 2010 | 2054 | Tuna | + | + | - | + | + | PA | 5 | a |
| 2010 | 2056 | Fish fillet | + | + | - | + | + | PA | 5 | a |
| 2010 | 2062 | Raw salmon pulp | + | + | - | + | + | PA | 5 | a |
| 2010 | 2064 | Panag fillet | + | + | - | + | + | PA | 5 | a |
| 2010 | 88 | Fish fillet | - | - | + | + | - | NA | 5 | a |
| 2010 | 211 | Salmon fillet | + | - | - | - | - | ND | 5 | a |
| 2010 | 242 | Frozen raw fish fillet | + | + | + | + | + | PA | 5 | a |
| 2010 | 243 | Frozen raw fish fillet | + | + | + | + | + | PA | 5 | a |
| 2010 | 354 | Salmon | + | - | - | - | - | ND | 5 | a |
| 2010 | 654 | Salmon fillet | - | + | + | + | + | PD | 5 | a |
| 2010 | 655 | Bass fillet | - | + | + | + | + | PD | 5 | a |
| 2010 | **920** | **Frozen tuna** | + | + | + | + | + | PA | 5 | a |
| 2010 | 923 | Frozen fish fillet | - | - | - | - | - | NA | 5 | a |
| 2010 | 926 | Fish fillet | - | - | + | + | - | NA | 5 | a |
| 2010 | 927 | Whiting fillet | - | - | + | + | - | NA | 5 | a |
| 2010 | 932 | Crayfish | - | - | + | + | - | NA | 5 | a |
| 2010 | 933 | Shrimps | - | - | + | + | - | NA | 5 | a |
| 2010 | 939 | Mackerel | - | - | + | + | - | NA | 5 | a |
| 2010 | 940 | Frozen sea bream | - | - | + | + | - | NA | 5 | a |
| 2010 | 2051 | Smoked salmon | + | + | - | + | + | PA | 5 | b |
| 2010 | 2058 | Smoked salmon | + | +(35,3) | - | +1col | + | PA | 5 | b |
| 2010 | 2172 | Smoked salmon pieces | - | + | + | + | + | PD | 5 | b |
| 2010 | 214 | Smoked salmon | + | + | + | + | + | PA | 5 | b |
| 2010 | 355 | Smoked salmon | + | + | + | + | + | PA | 5 | b |
| 2010 | 358 | Smoked tuna | - | - | - | - | - | NA | 5 | b |
| 2010 | 361 | Smoked salmon | + | - | - | - | - | ND | 5 | b |
| 2010 | **919** | **Somed peppered mackerel** | + | + | + | + | + | PA | 5 | b |
| 2010 | 935 | Smoked haddock | - | - | + | + | - | NA | 5 | b |
| 2010 | 936 | Smoked tuna | - | - | + | + | - | NA | 5 | b |
| 2018 | **4482** | **Smoked mackerel** | - | +27,7 | H+ | + | + | PD | 5 | b |
| 2018 | 4483 | Smoked trout | - | - | - | - | - | NA | 5 | b |
| 2010 | 2052 | Salmon tartar | + | + | + | + | + | PA | 5 | c |
| 2010 | 2053 | Cooked fish fillet | + | + | - | + | + | PA | 5 | c |
| 2010 | 2055 | Mussels | + | + | - | + | + | PA | 5 | c |
| 2010 | 2057 | Cooked mussels | + | + | + | - | + | PA | 5 | c |
| 2010 | 2059 | Cod fillet | + | + | - | + | + | PA | 5 | c |
| 2010 | 2060 | Cooked calmar | + | + | + | - | + | PA | 5 | c |
| 2010 | 2063 | Seafood cocktail | - | + | + | + | + | PD | 5 | c |
| 2010 | 2065 | Fish balls | + | + | - | + | + | PA | 5 | c |
| 2010 | 2069 | Cooked dab fillet | - | + | d | + | + | PD | 5 | c |
| 2010 | **918** | **Frozen surimi** | + | + | + | + | + | PA | 5 | c |
| 2010 | **921** | **Fish balls** | + | + | + | + | + | PA | 5 | c |
| 2010 | **922** | **Cooked mussels** | + | + | + | + | + | PA | 5 | c |
| 2010 | 928 | Cooked marinated shrimps | - | - | + | + | - | NA | 5 | c |
| 2010 | 929 | Cooked crab (rillettes) | - | - | + | + | - | NA | 5 | c |
| 2010 | 930 | Cooked tuna (Rilletes) | - | - | + | + | - | NA | 5 | c |
| 2010 | 931 | Trout tarama | - | - | - | - | - | NA | 5 | c |
| 2010 | 937 | Cooked mussels | - | - | - | - | - | NA | 5 | c |

♦ Analyses performed according to the COFRAC accreditation

| ENVIRONMENTAL SAMPLES | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Year of analysis | Sample N° | Product (English name) | Reference method: ISO 11290-1♦ | Alternative method: GeneDisc® Listeria DUO for the detection of *Listeria monocytogenes* After storage for 72 h at 5°C ± 3°C | | | | | Category | Type |
| | | | Result *L. monocytogenes* ISO | PCR *Listeria monocytogenes* | Confirmations | | Final result | Agreement | | |
| | | | | Protocol A | O&A | Palcam | | | | |
| 2018 | **4485** | **Rinse water (Fish industry)** | + | - | - | - | - | **ND** | 6 | a |
| 2018 | **6077** | **Rinse water (Dairy industry)** | + | +23,6 | H+ | + | + | **PA** | 6 | a |
| 2018 | **6078** | **Rinse water (Meat Industry)** | + | +30,6 | H+ | + | + | **PA** | 6 | a |
| 2018 | **6079** | **Process water (Meat Industry)** | + | +26,4 | H+ | + | + | **PA** | 6 | a |
| 2018 | **6081** | **Rinse water (Industry of milk)** | + | +21,0 | H+ | + | + | **PA** | 6 | a |
| 2018 | **6084** | **Rinse water (vegetable sausage)** | + | - | st | - | - | **ND** | 6 | a |
| 2018 | **6085** | **Washing water (Fish industry)** | + | +18,1 | H+ | + | + | **PA** | 6 | a |
| 2018 | **6086** | **Process water (Fish Industry)** | + | +25,0 | H+ | + | + | **PA** | 6 | a |
| 2018 | **6088** | **Process water (Fish Industry)** | + | +23,1 | H+ | + | + | **PA** | 6 | a |
| 2018 | **6089** | **Process water (Fish Industry)** | + | - | st | st | - | **ND** | 6 | a |
| 2018 | **6090** | **Process water (Meat Industry)** | + | +20,0 | H+ | + | + | **PA** | 6 | a |
| 2018 | 6383 | Rinse water | - | - | H- | + | - | **NA** | 6 | a |
| 2018 | **6091** | **Sponge (Meat industry)** | + | +17,9 | H+ | + | + | **PA** | 6 | b |
| 2018 | **6092** | **Sponge (Meat industry)** | + | invalid/+21,1 | H+ | + | + | **PA** | 6 | b |
| 2018 | **6874** | **Swab (Fish industry)** | - | +21,1 | H+ | + | + | **PD** | 6 | b |
| 2018 | **6875** | **Wipe (Meat industry)** | + | +23,6 | H+ | + | + | **PA** | 6 | b |
| 2018 | **6876** | **Wipe (Meat industry)** | + | +20,0 | H+ | + | + | **PA** | 6 | b |
| 2018 | **6877** | **Wipe (Fish production)** | + | +22,3 | H+ | - | + | **PA** | 6 | b |
| 2018 | **6878** | **Wipe (Sausage production)** | + | - | - | - | - | **ND** | 6 | b |
| 2018 | **6879** | **Sponge (Fish industry)** | + | +20,9 | H+/H- | + | + | **PA** | 6 | b |
| 2018 | **6880** | **Sponge (Fish industry)** | - | +23,6 | H+ | + | + | **PD** | 6 | b |
| 2018 | **5030** | **Residues (vegetable ham)** | + | - | H- | - | - | **ND** | 6 | c |
| 2018 | **5031** | **Residues (vegetable sausage)** | + | +23,8 | H+ | + | + | **PA** | 6 | c |
| 2018 | **5032** | **Residues (vegetable sausage)** | + | +27,1 | H+ (*L. monocytogenes*) | + | + | **PA** | 6 | c |
| 2018 | **5033** | **Floor residues (Seafood industry)** | + | - | H- | + | - | **ND** | 6 | c |
| 2018 | **5034** | **Residues (apple)** | + | +22,9 | H+ | - | + | **PA** | 6 | c |
| 2018 | **5035** | **Floor residues (Fish industry)** | + | +26,0 | H+ (*L. monocytogenes*)/ H- (*L. innocua*) | + | + | **PA** | 6 | c |
| 2018 | **5036** | **Poultry residues (Poultry industry)** | - | +28,7 | H+ (*L. monocytogenes*) | + | + | **PD** | 6 | c |
| 2018 | **5037** | **Fish residues (Fish industry)** | + | +29,6 | H+ | - | + | **PA** | 6 | c |
| 2018 | **5038** | **Fish residues (Fish industry)** | + | +23,4 | H+ | - | + | **PA** | 6 | c |
| 2018 | **6374** | **Dusts (Dairy industry)** | + | +23,3 | H+ | + | + | **PA** | 6 | c |
| 2018 | **6375** | **Dusts (Dairy industry)** | + | +22,9 | H+ | + | + | **PA** | 6 | c |
| 2018 | **6376** | **Dusts (Dairy industry)** | + | +24,7 | H+ | + | + | **PA** | 6 | c |
| 2018 | **6377** | **Dusts (Dairy industry)** | + | +25,0 | H+ | + | + | **PA** | 6 | c |
| 2018 | **6378** | **Dusts (Dairy industry)** | + | +21,0 | H+ | + | + | **PA** | 6 | c |
| 2018 | **6379** | **Dusts (Dairy industry)** | + | +19,6 | H+ | + | + | **PA** | 6 | c |
| 2018 | **6380** | **Dusts (Dairy industry)** | + | +24,8 | H+ | + | + | **PA** | 6 | c |
| 2018 | **6381** | **Dusts (Dairy industry)** | + | +21,5 | H+ | + | + | **PA** | 6 | c |
| 2018 | **6468** | **Dusts (Dairy industry)** | + | +30,4 | - | +(*L. monocytogenes*) | + | **PA** | 6 | c |
| 2018 | **6470** | **Dusts (Dairy industry)** | - | +24,6 | H+ | + | + | **PD** | 6 | c |
| 2018 | **6471** | **Dusts (Dairy industry)** | + | +26,1 | H+(*L.monocytogenes*) | + | + | **PA** | 6 | c |
| 2018 | **6472** | **Dusts (Dairy industry)** | + | +21,8 | H+ | + | + | **PA** | 6 | c |
| 2018 | **6473** | **Dusts (Dairy industry)** | + | +28,1 | H+(*L.monocytogenes*) | + | + | **PA** | 6 | c |

♦ Analyses performed according to the COFRAC accreditation

## Appendix 5 - Relative level of detection: raw data

**Deli-salad**

*Listeria monocytogenes* Ad494 Aerobic mesophilic flora: 3,2 .10$^6$ CFU/g

| N° sample | Level | Inoculation level (CFU/sample) | Reference method : ISO 11290-1/A1♦ | | | | | | Alternative method: GeneDisc® *Listeria* DUO for the detection of *Listeria monocytogenes* | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Half Fraser 25±1h at 37°C | | | | | | | |
| | | | Half Fraser | | Fraser | | Final Result | Number positive samples/Total | PCR result | | Confirmation | | | | Final result for *Listeria monocytogenes* | Number positive samples/Total |
| | | | O&A | Palcam | O&A | Palcam | | | Protocol A | Protocol B | O&A | Palcam | Tests ISO 11290-1 | GeneDisc ID | | |
| 4722 | 0 | 0 | st | - | - | - | - | 0/5 | - | - | - | - | / | / | - | 0/5 |
| 4723 | | | st | - | - | - | - | | - | - | - | - | / | / | - | |
| 4724 | | | st | - | - | - | - | | - | - | - | - | / | / | - | |
| 4725 | | | st | - | - | - | - | | - | - | - | - | / | / | - | |
| 4726 | | | st | - | - | - | - | | - | - | - | - | / | / | - | |
| 4727 | Low | 1,0 | st | - | - | - | - | 9/20 | +25,3 | +29,9 | H+ | + | + | *L. monocytogenes* | + | 14/20 |
| 4728 | | | H+ | + | H+ | + | + | | +25,5 | +29,8 | H+ | + | + | *L. monocytogenes* | + | |
| 4729 | | | H+ | + | H+ | + | + | | +23,1 | +20,2 | H+ | + | + | *L. monocytogenes* | + | |
| 4730 | | | st | - | - | - | - | | - | - | - | - | / | / | - | |
| 4731 | | | st | - | st | - | - | | - | - | - | - | / | / | - | |
| 4732 | | | st | - | st | - | - | | +24,5 | +21,2 | H+ | + | + | *L. monocytogenes* | + | |
| 4733 | | | H+ | + | H+ | + | + | | +26,9 | +23,9 | H+ | + | + | *L. monocytogenes* | + | |
| 4734 | | | st | st | st | - | - | | - | - | - | - | / | / | - | |
| 4735 | | | H+ | + | H+ | + | + | | +25,2 | +29,2 | H+ | + | + | *L. monocytogenes* | + | |
| 4736 | | | H+ | + | H+ | + | + | | - | - | - | - | / | / | - | |
| 4737 | | | H+ | + | H+ | + | + | | +21,2 | +23,3 | H+ | + | + | *L. monocytogenes* | + | |
| 4738 | | | st | - | - | - | - | | - | - | - | - | / | / | - | |
| 4739 | | | H+ | + | H+ | + | + | | +23,0 | +26,3 | H+ | + | + | *L. monocytogenes* | + | |
| 4740 | | | st | st | st | - | - | | +25,6 | +30,0 | H+ | + | + | *L. monocytogenes* | + | |
| 4741 | | | st | - | st | - | - | | +28,8 | +28,7 | H+ | + | +(1) | *L. monocytogenes* | + | |
| 4742 | | | st | - | st | - | - | | +22,8 | +26,2 | H+ | + | + | *L. monocytogenes* | + | |
| 4743 | | | H+ | + | H+ | + | + | | - | - | - | - | / | / | - | |
| 4744 | | | st | st | - | - | - | | +34,1 | +28,8 | H+ | + | + | *L. monocytogenes* | + | |
| 4745 | | | H+ | + | H+ | + | + | | +22,6 | +23,8 | H+ | + | + | *L. monocytogenes* | + | |
| 4746 | | | st | - | - | - | - | | +24,0 | +22,3 | H+ | + | + | *L. monocytogenes* | + | |
| 4747 | High | 2,7 | H+ | + | H+ | + | + | 5/5 | +19,1 | +18,9 | H+ | + | + | *L. monocytogenes* | + | 5/5 |
| 4748 | | | H+ | + | H+ | + | + | | +19,0 | +21,2 | H+ | + | + | *L. monocytogenes* | + | |
| 4749 | | | H+ | + | H+ | + | + | | +26,4 | +23,1 | H+ | + | + | *L. monocytogenes* | + | |
| 4750 | | | H+ | + | H+ | + | + | | +21,9 | +20,4 | H+ | + | + | *L. monocytogenes* | + | |
| 4751 | | | H+ | + | H+ | + | + | | +21,6 | +20,3 | H+ | + | + | *L. monocytogenes* | + | |

♦ Analyses performed according to the COFRAC accreditation

**Rillettes**

*Listeria monocytogenes* V2/124

Aerobic mesophilic flora:400cfu/g

| Sample No | Level | Reference method: ISO 11290-1♦ | | | | | | Alternative method:GeneDisc Listeria DUO | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | PCR Listeria spp | | | PCR Listeria monocytogenes | | | Confirmations | | Listeria spp | | | | | | Listeria monocytogenes | | | | | |
| | | O1 | P1 | O2 | P2 | Result L.mono | Pos/ Total | Extraction A | Extraction B | Extraction C | Extraction A | Extraction B | Extraction C | ALOA | Palcam | Final Result PCR A | Final Result PCR B | Final Result PCR C | Pos/ Total PCR A | Pos/ Total PCR B | Pos/ Total PCR C | Final result PCR A | Final result PCR B | Final result PCR C | Pos/ Total PCR A | Pos/ Total PCR B | Pos/ Total PCR C |
| 186 | 0 | - | - | - | - | - | 0/6 | - | - | - | - | - | - | / | / | - | - | - | 0/6 | 0/6 | 0/6 | - | - | - | 0/6 | 0/6 | 0/6 |
| 187 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 188 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 189 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 190 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 191 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 218 | 1 | - | - | - | - | - | 1/6 | - | - | - | - | - | - | / | / | - | - | - | 0/6 | 0/6 | 0/6 | - | - | - | 0/6 | 0/6 | 0/6 |
| 219 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 220 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 221 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 222 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 223 | | + | + | + | + | + | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 224 | 2 | - | - | - | - | - | 2/6 | - | - | - | - | - | - | / | / | - | - | - | 1/6 | 1/6 | 1/6 | - | - | - | 1/6 | 1/6 | 1/6 |
| 225 | | - | - | - | - | - | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 226 | | + | + | + | + | + | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 227 | | + | + | + | + | + | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 228 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 229 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 230 | 3 | + | + | + | + | + | 2/6 | - | - | - | - | - | - | / | / | - | - | - | 3/6 | 3/6 | 3/6 | - | - | - | 3/6 | 3/6 | 3/6 |
| 231 | | - | - | - | - | - | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 232 | | - | - | - | - | - | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 233 | | + | + | + | + | + | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 234 | | - | - | - | - | - | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 235 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 236 | 4 | - | - | - | - | - | 4/6 | + | + | + | + | + | + | + | + | + | + | + | 5/6 | 5/6 | 5/6 | + | + | + | 5/6 | 5/6 | 5/6 |
| 237 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 238 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 239 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 240 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 241 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 296 | 5 | + | + | + | + | + | 6/6 | + | + | + | + | + | + | + | + | + | + | + | 6/6 | 6/6 | 6/6 | + | + | + | 6/6 | 6/6 | 6/6 |
| 297 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 298 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 299 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 300 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 301 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |

♦ Analyses performed according to the COFRAC accreditation

**Raw milk**
*Listeria monocytogenes* 153
Aerobic mesophilic flora:3,7.10$^5$cfu/ml

| Sample No | Level | Reference method: ISO 11290-1♦ | | | | | | Alternative method: GeneDisc Listeria DUO | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | PCR Listeria spp | | | PCR Listeria monocytogenes | | | Confirmations | | Listeria spp | | | | | | Listeria monocytogenes | | | | | |
| | | | | | | | | | | | | | | ALOA | Palcam | Final result PCR A | Final result PCR B | Final result PCR C | Pos/ Total PCR A | Pos/ Total PCR B | Pos/ Total PCR C | Final result PCR A | Final result PCR B | Final result PCR C | Pos/ Total PCR A | Pos/ Total PCR B | Pos/ Total PCR C |
| | | O1 | P1 | O2 | P2 | Result L.mono | Pos /Total | Extraction A | Extraction B | Extraction C | Extraction A | Extraction B | Extraction C | | | | | | | | | | | | | | |
| 266 | 0 | - | - | - | - | - | 0/6 | - | - | - | - | - | - | / | / | - | - | - | 0/6 | 0/6 | 0/6 | - | - | - | 0/6 | 0/6 | 0/6 |
| 267 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 268 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 269 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 270 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 271 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 272 | 1 | + | + | + | + | + | 1/6 | - | - | - | - | - | - | / | / | - | - | - | 1/6 | 1/6 | 1/6 | - | - | - | 1/6 | 1/6 | 1/6 |
| 273 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 274 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 275 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 276 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 277 | | - | - | - | - | - | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 278 | 2 | + | + | + | + | + | 2/6 | + | + | + | + | + | + | + | + | + | + | + | 3/6 | 3/6 | 3/6 | + | + | + | 3/6 | 3/6 | 3/6 |
| 279 | | - | - | - | - | - | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 280 | | - | - | - | - | - | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 281 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 282 | | + | + | + | + | + | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 283 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 284 | 3 | + | + | + | + | + | 5/6 | + | + | + | + | + | + | + | + | + | + | + | 4/6 | 4/6 | 4/6 | + | + | + | 4/6 | 4/6 | 4/6 |
| 285 | | + | + | + | + | + | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 286 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 287 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 288 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 289 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 290 | 4 | + | + | + | + | + | 6/6 | + | + | + | + | + | + | + | + | + | + | + | 6/6 | 6/6 | 6/6 | + | + | + | 6/6 | 6/6 | 6/6 |
| 291 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 292 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 293 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 294 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 295 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |

♦ Analyses performed according to the COFRAC accreditation

## Fresh goat cheese

*Listeria monocytogenes* Ad664

Aerobic mesophilic flora: 1,4.10$^7$ cfu/g

| Sample No | Level | Reference method: ISO 11290-1♦ | | | | | | Méthode GeneDisc DUO | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | PCR Listeria spp | | | PCR Listeria monocytogenes | | | Confirmations | | Listeria spp | | | | | | Listeria monocytogenes | | | | | |
| | | O1 | P1 | O2 | P2 | Result L.monocytogenes | Pos/Total | Extraction A | Extraction B | Extraction C | Extraction A | Extraction B | Extraction C | ALOA | Palcam | Final Result PCR A | Final Result PCR B | Final Result PCR C | Pos/Total PCR A | Pos/Total PCR B | Pos/Total PCR C | Final Result PCR A | Final Result PCR B | Final Result PCR C | Pos/Total PCR A | Pos/Total PCR B | Pos/Total PCR C |
| 1669 | 0 | - | - | - | - | - | 0/6 | - | - | - | - | - | - | / | / | - | - | - | 0/6 | 0/6 | 0/6 | - | - | - | 0/6 | 0/6 | 0/6 |
| 1670 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 1671 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 1672 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 1673 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 1674 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 1902 | 1 | + | + | + | + | + | 1/6 | - | - | - | - | - | - | - | - | - | - | - | 5/6 | 5/6 | 5/6 | - | - | - | 5/6 | 5/6 | 5/6 |
| 1903 | | - | - | - | - | - | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 1904 | | - | - | - | - | - | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 1905 | | - | - | - | - | - | | + | + | + | + | - | + | + | + | + | + | + | | | | + | + | + | | | |
| 1906 | | - | - | - | - | - | | + | - | + | + | - | + | + | + | + | + | + | | | | + | + | + | | | |
| 1907 | | - | - | - | - | - | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 1675 | 2 | + | + | / | / | + | 5/6 | + | + | + | + | + | + | + | + | + | + | + | 4/6 | 4/6 | 4/6 | + | + | + | 4/6 | 4/6 | 4/6 |
| 1676 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 1677 | | + | + | / | / | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 1678 | | + | + | / | / | + | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 1679 | | + | + | / | / | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 1680 | | + | + | / | / | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 1681 | 3 | + | + | / | / | + | 6/6 | + | + | + | + | + | + | + | + | + | + | + | 6/6 | 6/6 | 6/6 | + | + | + | 6/6 | 6/6 | 6/6 |
| 1682 | | + | + | / | / | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 1683 | | + | + | / | / | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 1684 | | + | + | / | / | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 1685 | | + | + | / | / | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 1686 | | + | + | / | / | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 1687 | 4 | + | + | / | / | + | 6/6 | + | + | + | + | + | + | + | + | + | + | + | 6/6 | 6/6 | 6/6 | + | + | + | 6/6 | 6/6 | 6/6 |
| 1688 | | + | + | / | / | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 1689 | | + | + | / | / | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 1690 | | + | + | / | / | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 1691 | | + | + | / | / | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 1692 | | + | + | / | / | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |

♦ Essai effectué sous le couvert de l'accréditation

**Frozen spinach**
*Listeria monocytogenes* 1011/1410
Aerobic mesophilic flora:400 cfu/g

| Sample No | Level | Reference method: ISO 11290-1♦ | | | | | | Alternative method: GeneDisc Listeria DUO | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | PCR Listeria spp | | | PCR Listeria monocytogenes | | | Confirmations | | Listeria spp | | | | | | Listeria monocytogenes | | | | | |
| | | O1 | P1 | O2 | P2 | Result L.mono-cytogenes | Pos/Total | Extraction A | Extraction B | Extraction C | Extraction A | Extraction B | Extraction C | ALOA | Palcam | Final Result PCR A | Final Result PCR B | Final Result PCR C | Pos/ Total PCR A | Pos/ Total PCR B | Pos/ Total PCR C | Final Result PCR A | Final Result PCR B | Final Result PCR C | Pos/ Total PCR A | Pos/ Total PCR B | Pos/ Total PCR C |
| 622 | 0 | - | - | - | - | - | 0/6 | - | - | - | - | - | - | / | / | - | - | - | 0/6 | 0/6 | 0/6 | - | - | - | 0/6 | 0/6 | 0/6 |
| 623 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 624 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 625 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 626 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 627 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 628 | 1 | + | + | + | + | + | 1/6 | + | + | + | + | + | + | + | + | + | + | + | 3/6 | 3/6 | 3/6 | + | + | + | 3/6 | 3/6 | 3/6 |
| 629 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 630 | | - | - | - | - | - | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 631 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 632 | | - | - | - | - | - | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 633 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 634 | 2 | - | - | - | - | - | 2/6 | + | + | + | + | + | + | + | + | + | + | + | 3/6 | 3/6 | 3/6 | + | + | + | 3/6 | 3/6 | 3/6 |
| 635 | | - | - | - | - | - | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 636 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 637 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 638 | | + | + | + | + | + | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 639 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 640 | 3 | + | + | + | + | + | 6/6 | + | + | + | + | + | + | + | + | + | + | + | 5/6 | 5/6 | 5/6 | + | + | + | 5/6 | 5/6 | 5/6 |
| 641 | | + | + | + | + | + | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 642 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 643 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 644 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 645 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 646 | 4 | + | + | + | + | + | 6/6 | + | + | + | + | + | + | + | + | + | + | + | 6/6 | 6/6 | 6/6 | + | + | + | 6/6 | 6/6 | 6/6 |
| 647 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 648 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 649 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 650 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 651 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |

♦ Analyses performed according to the COFRAC accreditation

## Smoked salmon

*Listeria monocytogenes* BR32
Aerobic mesophilic flora:600 cfu/g

| Sample No | Level | Reference method: ISO 11290-1♦ | | | | | | Méthode GeneDisc DUO | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | PCR Listeria spp | | | PCR Listeria monocytogenes | | | Confirmations | | Listeria spp | | | | | | Listeria monocytogenes | | | | | |
| | | O1 | P1 | O2 | P2 | Result L.spp | Pos/ Total | Extraction A | Extraction B | Extraction C | Extraction A | Extraction B | Extraction C | ALOA | Palcam | Final Result PCR A | Final Result PCR B | Final Result PCR C | Pos/ Total PCR A | Pos/ Total PCR B | Pos/ Total PCR C | Final Result PCR A | Final Result PCR B | Final Result PCR C | Pos/ Total PCR A | Pos/ Total PCR B | Pos/ Total PCR C |
| 726 | 0 | - | - | - | - | - | 0/6 | - | - | - | - | - | - | / | / | - | - | - | 0/6 | 0/6 | 0/6 | - | - | - | 0/6 | 0/6 | 0/6 |
| 727 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 728 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 729 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 730 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 731 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 781 | 1 | - | - | - | - | - | 2/6 | - | - | - | - | - | - | / | / | - | - | - | 3/6 | 3/6 | 3/6 | - | - | - | 3/6 | 3/6 | 3/6 |
| 782 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 783 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 784 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 785 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 786 | | - | - | - | - | - | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 787 | 2 | + | + | + | + | + | 5/6 | - | - | - | - | - | - | / | / | - | - | - | 2/6 | 2/6 | 3/6 | - | - | - | 3/6 | 3/6 | 3/6 |
| 788 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 789 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 790 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 791 | | + | + | + | + | + | | -/- | -/- | + | +(faible) /+(faible) | +(faible)/ +(faible) | + | + | + | -/- | -/- | + | | | | + | + | + | | | |
| 792 | | + | + | + | + | + | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 793 | 3 | + | + | + | + | + | 6/6 | + | + | + | + | + | + | + | + | + | + | + | 5/6 | 5/6 | 5/6 | + | + | + | 5/6 | 5/6 | 5/6 |
| 794 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 795 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 796 | | + | + | + | + | + | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 797 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 798 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 799 | 4 | + | + | + | + | + | 6/6 | + | + | + | + | + | + | + | + | + | + | + | 6/6 | 6/6 | 6/6 | + | + | + | 6/6 | 6/6 | 6/6 |
| 800 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 801 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 802 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 803 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 804 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |

♦ Analyses performed according to the COFRAC accreditation

## Cleaning water

*Listeria monocytogenes* Ad 243

Aerobic mesophilic flora:1 400 000 cfu/g

| Sample No | Level | Reference method:ISO 11290-1♦ | | | | | | Méthode GeneDisc DUO | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | PCR Listeria spp | | | PCR Listeria monocytogenes | | | Confirmations | | Listeria spp | | | | | | Listeria monocytogenes | | | | | |
| | | O1 | P1 | O2 | P2 | Result L.mono | Pos/ Total | Extraction A | Extraction B | Extraction C | Extraction A | Extraction B | Extraction C | ALOA | Palcam | Final Result PCR A | Final Result PCR B | Final Result PCR C | Pos/ Total PCR A | Pos/ Total PCR B | Pos/ Total PCR C | Final Result PCR A | Final Result PCR B | Final Result PCR C | Pos/ Total PCR A | Pos/ Total PCR B | Pos/ Total PCR C |
| 957 | 0 | - | - | - | - | - | 0/6 | - | - | - | - | - | - | - | - | - | - | - | 0/6 | 0/6 | 0/6 | - | - | - | 0/6 | 0/6 | 0/6 |
| 958 | | - | - | - | - | - | | - | - | - | - | - | - | - | - | - | - | - | | | | - | - | - | | | |
| 959 | | - | - | - | - | - | | - | - | - | - | - | - | - | - | - | - | - | | | | - | - | - | | | |
| 960 | | - | - | - | - | - | | - | - | - | - | - | - | - | - | - | - | - | | | | - | - | - | | | |
| 961 | | - | - | - | - | - | | - | - | - | - | - | - | - | - | - | - | - | | | | - | - | - | | | |
| 962 | | - | - | - | - | - | | - | - | - | - | - | - | - | - | - | - | - | | | | - | - | - | | | |
| 1278 | 1 | - | - | - | - | - | 1/6 | + | + | + | + | + | + | + | + | + | + | + | 1/6 | 1/6 | 1/6 | + | + | + | 1/6 | 1/6 | 1/6 |
| 1279 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 1280 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 1281 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 1282 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 1283 | | + | + | + | + | + | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 1284 | 2 | + | + | + | + | + | 3/6 | + | + | + | + | + | + | + | + | + | + | + | 4/6 | 4/6 | 4/6 | + | + | + | 4/6 | 4/6 | 4/6 |
| 1285 | | - | - | - | - | - | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 1286 | | - | - | - | - | - | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 1287 | | - | - | - | - | - | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 1288 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 1289 | | + | + | + | + | + | | - | - | - | - | - | - | / | / | - | - | - | | | | - | - | - | | | |
| 1290 | 3 | - | - | - | - | - | 5/6 | - | - | - | - | - | - | - | - | - | - | - | 5/6 | 5/6 | 5/6 | - | - | - | 5/6 | 5/6 | 5/6 |
| 1291 | | - | - | - | - | - | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 1292 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 1293 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 1294 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 1295 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 1296 | 4 | + | + | + | + | + | 6/6 | + | + | + | + | + | + | + | + | + | + | + | 6/6 | 6/6 | 6/6 | + | + | + | 6/6 | 6/6 | 6/6 |
| 1297 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 1298 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 1299 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 1300 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |
| 1301 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | | | |

♦ Analyses performed according to the COFRAC accreditation

## Appendix 6 - Inclusivity & exclusivity: raw data

| N° | Genus | Species | PCR group | Reference | Origin | Inoculation level (CFU/225ml Half-Fraser) | *PCR L.monocytogenes* | Confirmation | | GeneDisc® Listeria ID on colony | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | O&A (H+/H-) | Palcam | Result (Ct) | Identification result |
| 1. | *Listeria* | *monocytogenes* | IVb | 153 | Raw milk cheese | 16 | + | H+ | + | +20,9 | *L. monocytogenes* |
| 2. | *Listeria* | *monocytogenes* | IIa | 1011/1410 | Frozen broccolis | 17 | + | H+ | + | +22,9 | *L. monocytogenes* |
| 3. | *Listeria* | *monocytogenes* | IVb | 1972/2399 | Mushrooms pie | 19 | + | H+ | + | +19,4 | *L. monocytogenes* |
| 4. | *Listeria* | *monocytogenes* | IVb | 1973/2400 | Pie | 11 | + | H+ | + | +19,4 | *L. monocytogenes* |
| 5. | *Listeria* | *monocytogenes* | IVb | 2407/3139 | Delicatessen | 7 | + | H+ | + | +21,0 | *L. monocytogenes* |
| 6. | *Listeria* | *monocytogenes* | IIa | 2760/3145 | Pork meat | 15 | + | H+ | + | +22,4 | *L. monocytogenes* |
| 7. | *Listeria* | *monocytogenes* | IIb | 32.183 | Ready to eat meal | 16 | + | H+ | + | +23,0 | *L. monocytogenes* |
| 8. | *Listeria* | *monocytogenes* | IIa | 38/181 | Saussage | 16 | + | H+ | + | +22,8 | *L. monocytogenes* |
| 9. | *Listeria* | *monocytogenes* | IVb | 5721/6179 | Sliced smoked bacon | 11 | + | H+ | + | +23,5 | *L. monocytogenes* |
| 10. | *Listeria* | *monocytogenes* | IVb | 7111/7516 | Rillettes | 13 | + | H+ | + | +23,8 | *L. monocytogenes* |
| 11. | *Listeria* | *monocytogenes* | IIa | 850/109 | Smoked fish | 15 | + | H+ | + | +21,6 | *L. monocytogenes* |
| 12. | *Listeria* | *monocytogenes* | IIa or IIc | 877/113 | Swab | 5 | + | H+ | + | +25,1 | *L. monocytogenes* |
| 13. | *Listeria* | *monocytogenes* | IVb | 913/1 048 | Delicatessen | 0 | + | H+ | + | +21,0 | *L. monocytogenes* |
| 14. | *Listeria* | *monocytogenes* | IIa | A00C014 | Sausages | 13 | + | H+ | + | +21,8 | *L. monocytogenes* |
| 15. | *Listeria* | *monocytogenes* | IIa | A00C022 | Merguez | 18 | + | H+ | + | +22,5 | *L. monocytogenes* |
| 16. | *Listeria* | *monocytogenes* | IIa | A00C024 | Sausage with herbs | 14 | + | H+ | + | +22,3 | *L. monocytogenes* |
| 17. | *Listeria* | *monocytogenes* | IIa | A00C036 | Guinea fowl | 11 | + | H+ | + | +22,6 | *L. monocytogenes* |
| 18. | *Listeria* | *monocytogenes* | IIa | A00C039 | Delicatessen | 13 | + | H+ | + | +21,5 | *L. monocytogenes* |
| 19. | *Listeria* | *monocytogenes* | IVb | A00C040 | Delicatessen | 17 | + | H+ | + | +22,2 | *L. monocytogenes* |
| 20. | *Listeria* | *monocytogenes* | La | A00C041 | Saussage meat | 15 | + | H+ | + | +23,2 | *L. monocytogenes* |
| 21. | *Listeria* | *monocytogenes* | IVb | A00C042 | Saussage | 0 | + | H+ | + | +22,2 | *L. monocytogenes* |
| 22. | *Listeria* | *monocytogenes* | IIa | A00C043 | Smoked bacon | 7 | + | H+ | + | +23,3 | *L. monocytogenes* |
| 23. | *Listeria* | *monocytogenes* | IIb | A00C044 | Duck | 7 | + | H+ | + | +21,5 | *L. monocytogenes* |
| 24. | *Listeria* | *monocytogenes* | IIb | A00C052 | Duck meat | 12 | + | H+ | + | +21,5 | *L. monocytogenes* |
| 25. | *Listeria* | *monocytogenes* | IIa | A00C053 | Gizzards | 10 | + | H+ | + | +22,2 | *L. monocytogenes* |
| 26. | *Listeria* | *monocytogenes* | IVb | A00C054 | Beef heart | 12 | + | H+ | + | +22,0 | *L. monocytogenes* |

| N° | Genus | Species | PCR group | Reference | Origin | Inoculation level (CFU/225ml Half-Fraser) | *PCR L.monocytogenes* | Confirmation | | GeneDisc® Listeria ID on colony | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | O&A (H+/H-) | Palcam | Result (Ct) | Identification result |
| 27. | *Listeria* | *monocytogenes* | IIa | A00C055 | Sausage | 13 | + | H+ | + | +22,9 | *L. monocytogenes* |
| 28. | *Listeria* | *monocytogenes* | IIa | A00E008 | Wipe | 7 | + | H+ | + | +23,6 | *L. monocytogenes* |
| 29. | *Listeria* | *monocytogenes* | IIa | A00E049 | Wipe | 12 | + | H+ | + | +23,2 | *L. monocytogenes* |
| 30. | *Listeria* | *monocytogenes* | IIa | A00E082 | Environmental sample | 11 | + | H+ | + | +23,2 | *L. monocytogenes* |
| 31. | *Listeria* | *monocytogenes* | IIa | A00L097 | Milk | 12 | + | H+ | + | +24,2 | *L. monocytogenes* |
| 32. | *Listeria* | *monocytogenes* | IIa | A00M009 | Smoked salmon | 16 | + | H+ | + | +23,1 | *L. monocytogenes* |
| 33. | *Listeria* | *monocytogenes* | IVb | A00M032 | Smoked salmon | 11 | + | H+ | + | +22,9 | *L. monocytogenes* |
| 34. | *Listeria* | *monocytogenes* | IIa | A00M045 | Smoked salmon | 12 | + | H+ | + | +24,6 | *L. monocytogenes* |
| 35. | *Listeria* | *monocytogenes* | IIa | A00M088 | Smoked salmon | 6 | + | H+ | + | +22,9 | *L. monocytogenes* |
| 36. | *Listeria* | *monocytogenes* | IIb | Ad235 | Poultry | 10 | + | H+ | + | +21,2 | *L. monocytogenes* |
| 37. | *Listeria* | *monocytogenes* | IIb | Ad253 | Cheese | 5 | + | H+ | + | +24,8 | *L. monocytogenes* |
| 38. | *Listeria* | *monocytogenes* | IIa | Ad260 | Cheese | 3 | + | H+ | + | +22,5 | *L. monocytogenes* |
| 39. | *Listeria* | *monocytogenes* | IIb | Ad265 | Tongue | 12 | + | H+ | + | +21,7 | *L. monocytogenes* |
| 40. | *Listeria* | *monocytogenes* | IIa ou IIc | Ad266 | Chicken | 6 | + | H+ | + | +22,8 | *L. monocytogenes* |
| 41. | *Listeria* | *monocytogenes* | IIb | Ad267 | Dehydrated sausage | 6 | + | H+ | + | +22,1 | *L. monocytogenes* |
| 42. | *Listeria* | *monocytogenes* | IVb | Ad268 | Dehydrated ham | 10 | + | H+ | + | +21,5 | *L. monocytogenes* |
| 43. | *Listeria* | *monocytogenes* | IVb | Ad270 | Dehydrated sausage | 3 | + | H+ | + | +21,5 | *L. monocytogenes* |
| 44. | *Listeria* | *monocytogenes* | IVb | Ad272 | Dehydrated sausage | 6 | + | H+ | + | +22,6 | *L. monocytogenes* |
| 45. | *Listeria* | *monocytogenes* | IIb | Ad273 | Dehydrated ham | 8 | + | H+ | + | +23,3 | *L. monocytogenes* |
| 46. | *Listeria* | *monocytogenes* | IIa | Ad274 | Asian ready to eat meal | 6 | + | H+ | + | +21,0 | *L. monocytogenes* |
| 47. | *Listeria* | *monocytogenes* | IIb | Ad534 | Fruits | 12 | + | H+ | + | +23,3 | *L. monocytogenes* |
| 48. | *Listeria* | *monocytogenes* | IIa | Ad544 | Cooked onions | 11 | + | H+ | + | +22,6 | *L. monocytogenes* |
| 49. | *Listeria* | *monocytogenes* | IIa | Ad546 | Flour | 7 | + | H+ | + | +20,7 | *L. monocytogenes* |
| 50. | *Listeria* | *monocytogenes* | IIb | Ad623 | Bread crumps | 8 | + | H+ | + | +21,3 | *L. monocytogenes* |

| EXCLUSIVITY (*Listeria* spp. strains) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| N° | Genus | Species | Reference | Origin | Inoculation level (CFU/225ml Half Fraser) | PCR | Confirmation | | GeneDisc® Listeria ID on colony | |
| | | | | | | *Listeria monocytogenes* | O&A (H+/H-) | Palcam | Result (Ct) | Identification result |
| 1 | *Listeria* | *innocua* | 1 | Smoked salmon | 10 | - | H- | + | +22,1 | *L. innocua* |
| 2 | *Listeria* | *innocua* | 17765 | Pork meat | 36 | - | H- | + | +21,6 | *L. innocua* |
| 3 | *Listeria* | *innocua* | 18313 | Milk | 27 | - | H- | + | +20,8 | *L. innocua* |
| 4 | *Listeria* | *innocua* | Ad 658 | Gorgonzola | 14 | - | H- | + | +21,8 | *L. innocua* |
| 5 | *Listeria* | *innocua* | Transporteur fromagerie | Environmental sample | 8 | - | H- | + | +22,5 | *L. innocua* |
| 6 | *Listeria* | *innocua* | 902 | Dairy products | 15 | - | H- | + | +20,7 | *L. innocua* |
| 7 | *Listeria* | *innocua* | Ad663 | Environmental samples | 13 | - | H- | + | +21,7 | *L. innocua* |
| 8 | *Listeria* | *innocua* | Ad660 | Bread crumps | 5 | - | H- | + | +20,9 | *L. innocua* |
| 9 | *Listeria* | *innocua* | As661 | Cheese | 16 | - | H- | + | +21,1 | *L. innocua* |
| 10 | *Listeria* | *innocua* | Ad655 | Brine | 5 | - | H- | + | +20,3 | *L. innocua* |
| 11 | *Listeria* | *innocua* | Ad671 | Sliced smoked bacon | 14 | - | H+ | + | +23,4 | *L. innocua* |
| 12 | *Listeria* | *ivanovii* | CIP103505 | Trout | 10 | - | / | / | +22,0 | *L. ivanovii* |
| 13 | | | | | 49 | - | / | / | | |
| 14 | | | | | 490 | - | / | / | | |
| 15 | *Listeria* | *ivanovii* | BR11 | Environmental sample | 10 | - | H+ | + | +24,6 | *L. ivanovii* |
| 16 | *Listeria* | *ivanovii* | Ad466 | Veal meat | 6 | - | / | / | +22,9 | *L. ivanovii* |
| 17 | | | | | 10 | - | / | / | | |
| 18 | | | | | 103 | - | / | / | | |
| 19 | *Listeria* | *ivanovii* | Ad662 | Environmental sample | 10 | - | H+ | + | +25,2 | *L. ivanovii* |
| 20 | *Listeria* | *ivanovii* | L2-2 (Ad1291) | Poutry meat | 2 | - | / | / | +23,3 | *L. ivanovii* |
| 21 | | | | | 45 | - | / | / | | |
| 22 | | | | | 450 | - | / | / | | |
| 23 | *Listeria* | *ivanovii* | L2-9 (Ad1288) | Raw ewe milk | 8 | - | / | / | +21,7 | *L. ivanovii* |
| 24 | | | | | 64 | - | / | / | | |
| 25 | | | | | 640 | - | / | / | | |
| 26 | *Listeria* | *ivanovii* | L2-11 (Ad1289) | Raw milk cheese | 15 | - | / | / | +21,1 | *L. ivanovii* |
| 27 | | | | | 8 | - | / | / | | |
| 28 | | | | | 85 | - | / | / | | |
| 29 | *Listeria* | *ivanovii* | L2-12 (Ad1290) | Milk powfer | 6 | - | / | / | +21,8 | *L. ivanovii* |
| 30 | | | | | 16 | - | / | / | | |
| 31 | | | | | 349 | - | / | / | | |
| 32 | *Listeria* | *seeligeri* | CIP100100 | / | 4 | - | H- | traces noires | +17,0 | *L. seeligeri* |
| 33 | *Listeria* | *seeligeri* | BR1 | Trout | 1 | - | H- | + | +17,0 | *L. seeligeri* |
| 34 | *Listeria* | *seeligeri* | BR18 | Environmental sample | 6 | - | H- | + | +19,0 | *L. seeligeri* |
| 35 | *Listeria* | *seeligeri* | Ad652 | Environmental sample | 13 | - | H- | + | +20,0 | *L. seeligeri* |

| EXCLUSIVITY (*Listeria* spp. strains) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| N° | Genus | Species | Reference | Origin | Inoculation level (CFU/225ml Half Fraser) | PCR | Confirmation | | GeneDisc® Listeria ID on colony | |
| | | | | | | *Listeria monocytogenes* | O&A (H+/H-) | Palcam | Result (Ct) | Identification result |
| 36 | *Listeria* | *seeligeri* | Ad649 (AERIAL 26) | Cheese | 15 | - | H- | + | +25,1 | *L. seeligeri* |
| 37 | *Listeria* | *seeligeri* | Ad651 (AERIAL 46) | Environnement | 20 | - | H- | + | +22,5 | *L. seeligeri* |
| 38 | *Listeria* | *seeligeri* | Ad674 | Cheese | 22 | - | H- | + | +20,7 | *L. seeligeri* |
| 39 | *Listeria* | *welshimeri* | Ad650 (AERIAL 45) | Poutry meat | 23 | - | H- | + | +23,0 | *L. welshimeri* |
| 40 | *Listeria* | *welshimeri* | 191424 | Poultry meat | 10 | - | H- | + | +20,7 | *L. welshimeri* |
| 41 | *Listeria* | *grayi* | ATCC19120 | / | 12 | - | / | / | +20,7 | *L. grayi* |
| 42 | | | | | 1 | - | / | / | | |
| 43 | | | | | 5 | - | / | / | | |
| 44 | *Listeria* | *grayi* | CIP76124 | / | 4 | - | / | / | +17,4 | *L. grayi* |
| 45 | | | | | 5 | - | / | / | | |
| 46 | Listeria | *grayi* | Ad1229 | Chitterling | 40 | - | / | / | +18,1 | *L. grayi* |
| 47 | Listeria | *grayi* | Ad1198 | Smoked salmon | 128 | - | / | / | +17,0 | *L. grayi* |

| EXCLUSIVITY | | | | | | |
|---|---|---|---|---|---|---|
| N° | Strain | | Reference | Origin | Inoculation level (cfu/ml) | PCR *L.monocytogenes* |
| 1. | *Bacillus* | *cereus* | Ad 465 | Salmon terrin | 2.0 $10^5$ | -/- |
| 2. | *Bacillus* | *cereus* | Ad 608 | Puff pastry | 8.4 $10^4$ | -/- |
| 3. | *Bacillus* | *circulans* | B8 | Dairy product | 1.2 $10^4$ | -/- |
| 4. | *Bacillus* | *coagulans* | 7179 | Dairy product | 7.8 $10^4$ | -/- |
| 5. | *Bacillus* | *licheniformis* | 7600 | Dairy product | 6.4 $10^4$ | -/- |
| 6. | *Bacillus* | *mycoïdes* | NFSO60 | Milk | 1.4 $10^4$ | -/- |
| 7. | *Bacillus* | *pseudomycoides* | S38 | Vegetables | 2.0 $10^5$ | -/- |
| 8. | *Bacillus* | *pumilus* | 7572 | Dairy products | 2.0 $10^5$ | -/- |
| 9. | *Bacillus* | *weihenstephanensis* | N12 | Egg product | 1.8 $10^5$ | -/- |
| 10. | *Bacillus* | *weihenstephanensis* | SDA NFFE640 | Dairy product | 6.0 $10^4$ | -/- |
| 11. | *Brochothrix* | *thermosphacta* | EN 15129 | Trout | 1.9 $10^4$ | -/- |
| 12. | *Brochrotrix* | *compessis* | CIP 102920T | Environmental sample | 9.2 $10^4$ | -/- |
| 13. | *Carnobacterium* | *piscicola* | Ad 369 | Raw milk | 5.7 $10^4$ | -/- |
| 14. | *Corynebacteria* | *spp* | Ad 364 | Cheese | 1.6 $10^7$ | -/- |
| 15. | *Enterococcus* | *durans* | Ad 149 | White ham | 1.2 $10^5$ | -/- |
| 16. | *Enterococcus* | *faecalis* | 89L326 | Cheese | 9.0 $10^4$ | -/- |
| 17. | *Lactobacillus* | *brevis* | 86L126 | Ham | 5.6 $10^4$ | -/- |
| 18. | *Lactobacillus* | *curvatus* | Ad 380 | Delicatessen | 6.4 $10^4$ | -/- |
| 19. | *Lactobacillus* | *fermentum* | Ad 482 | Tomato juice | 3.2 $10^5$ | -/- |
| 20. | *Lactobacillus* | *sakei* | Ad 473 | Ham | 1.0 $10^5$ | -/- |
| 21. | *Lactococcus* | *lactis* | Ad 303 | Cheese | 6.8 $10^4$ | -/- |
| 22. | *Leuconostoc* | *carnosum* | Ad 411 | Ham | 1.7 $10^5$ | -/- |
| 23. | *Micrococcus* | *luteus* | ATCC 10240 | / | 1.9 $10^7$ | -/- |
| 24. | *Micrococcus* | *luteus* | Ad 432 | Drink (cocktail) | 6.2 $10^5$ | -/- |
| 25. | *Staphylococcus* | *aureus* | Adria501 | Raw milk | 2.0 $10^4$ | -/- |
| 26. | *Staphylococcus* | *aureus* | Ad 165 | Smoked bacon | 5.8 $10^4$ | -/- |
| 27. | *Staphylococcus* | *epidermis* | Ad 931 | Fruits preparation | 5.6 $10^5$ | -/- |
| 28. | *Staphylococcus* | *haemoliticus* | Ad 989 | Dairy product | 8.0 $10^4$ | -/- |
| 29. | *Staphylococcus* | *intermedius* | CIP 81.60 | / | 1.4 $10^5$ | -/- |
| 30. | *Streptococcus* | *thermophilus* | Ad 441 | Milk | 1.2 $10^5$ | -/- |

## Appendix 7 – Inter-laboratory study: raw data (initial validation)

L. spp: Listeria spp. L.mono: *Listeria monocytogenes*

**Laboratory** A
Aerobic mesophilic flora:1,1.10$^{7}$/g

| Sample N° | Reference method ISO 11290-1 | | | | | | Alternative method: GeneDisc Listeria DUO | | | | | Agreement | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Half -fraser | | Fraser | | Confirmation | Final result | PCR Listeria DUO | | Confirmation | Final resul | Final resul | | |
| | O&A | Palcam | O&A | Palcam | | | L.spp | L.monocytogenes | O&A | L.spp | L.mono | L.spp | L.mno |
| A3 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| A8 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| A9 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| A12 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| A15 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| A18 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| A20 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| A21 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| A1 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| A4 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| A7 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| A10 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| A11 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| A13 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| A17 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| A24 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| A2 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| A5 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| A6 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| A14 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| A16 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| A19 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| A22 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| A23 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |

**Laboratory** B Analysis at Day 1
Aerobic mesophilic flora:1,1.10$^{7}$/g

| Sample N° | Reference method ISO 11290-1 | | | | | | Alternative method: GeneDisc Listeria DUO | | | | | Agreement | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Half -fraser | | Fraser | | Confirmation | Final result | PCR Listeria DUO | | Confirmation | Final resul | Final resul | | |
| | O&A | Palcam | O&A | Palcam | | | L.spp | L.monocytogenes | O&A | L.spp | L.mono | L.spp | L.mno |
| B3 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| B8 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| B9 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| B12 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| B15 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| B18 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| B20 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| B21 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| B1 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| B4 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| B7 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| B10 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| B11 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| B13 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| B17 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| B24 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| B2 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| B5 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| B6 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| B14 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| B16 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| B19 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| B22 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| B23 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |

**Laboratory** C
Aerobic mesophilic flora:1,1.10$^{7}$/g

| Sample N° | Reference method ISO 11290-1 | | | | | | Alternative method: GeneDisc Listeria DUO | | | | | Agreement | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Half -fraser | | Fraser | | Confirmation | Final result | PCR Listeria DUO | | Confirmation | Final resul L.spp | Final resul L.mono | | |
| | O&A | Palcam | O&A | Palcam | | | L.spp | L.monocytogenes | O&A | | | L.spp | L.mno |
| C3 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| C8 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| C9 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| C12 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| C15 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| C18 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| C20 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| C21 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| C1 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| C4 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| C7 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| C10 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| C11 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| C13 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| C17 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| C24 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| C2 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| C5 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| C6 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| C14 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| C16 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| C19 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| C22 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| C23 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |

**Laboratory** D
Aerobic mesophilic flora:1,1.10$^{7}$/g

| Sample N° | Reference method ISO 11290-1 | | | | | | Alternative method: GeneDisc Listeria DUO | | | | | Agreement | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Half -fraser | | Fraser | | Confirmation | Final result | PCR Listeria DUO | | Confirmation | Final resul L.spp | Final resul L.mono | | |
| | O&A | Palcam | O&A | Palcam | | | L.spp | L.monocytogenes | O&A | | | L.spp | L.mno |
| D3 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| D8 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| D9 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| D12 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| D15 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| D18 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| D20 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| D21 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| D1 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| D4 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| D7 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| D10 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| D11 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| D13 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| D17 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| D24 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| D2 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| D5 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| D6 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| D14 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| D16 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| D19 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| D22 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| D23 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |

**Laboratory** E
Aerobic mesophilic flora:1,1.10$^{7}$/g

| Sample N° | Reference method ISO 11290-1 | | | | | | Alternative method: GeneDisc Listeria DUO | | | | | Agreement | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Half -fraser | | Fraser | | Confirmation | Final result | PCR Listeria DUO | | Confirmation | Final resul L.spp | Final resul L.mono | | |
| | O&A | Palcam | O&A | Palcam | | | L.spp | L.monocytogenes | O&A | | | L.spp | L.mno |
| E3 | - | - | + | + | - | - | +(ct:8,8, atypical curve)/-/-/-/- | -/-/-/-/- | - | - | - | **PD** | **NA** |
| E8 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| E9 | - | - | - | - | / | - | -/-/-/-/- | +(CT 36,5; weak amplitude)/-/-/-/- | - | - | - | **PD** | **NA** |
| E12 | - | - | + | - | - | - | - | - | / | - | - | **NA** | **NA** |
| E15 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| E18 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| E20 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| E21 | - | - | + | + | - | - | - | - | / | - | - | **NA** | **NA** |
| E1 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| E4 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| E7 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| E10 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| E11 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| E13 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| E17 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| E24 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| E2 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| E5 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| E6 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| E14 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| E16 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| E19 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| E22 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| E23 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |

**Laboratory** F
Aerobic mesophilic flora:1,1.10$^{7}$/g

| Sample N° | Reference method ISO 11290-1 | | | | | | Alternative method: GeneDisc Listeria DUO | | | | | Agreement | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Half -fraser | | Fraser | | Confirmation | Final result | PCR Listeria DUO | | Confirmation | Final resul L.spp | Final resul L.mono | | |
| | O&A | Palcam | O&A | Palcam | | | L.spp | L.monocytogenes | O&A | | | L.spp | L.mno |
| F3 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| F8 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| F9 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| F12 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| F15 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| F18 | - | - | - | - | / | - | - | +(ct:37,34) | - | - | - | **NA** | **NA** |
| F20 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| F21 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| F1 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| F4 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| F7 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| F10 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| F11 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| F13 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| F17 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| F24 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| F2 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| F5 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| F6 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| F14 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| F16 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| F19 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| F22 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| F23 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |

**Laboratory** G
Aerobic mesophilic flora:1,1.$10^7$/g

| Sample N° | Reference method ISO 11290-1 | | | | | | Alternative method: GeneDisc Listeria DUO | | | | | Agreement | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Half -fraser | | Fraser | | Confirmation | Final result | PCR Listeria DUO | | Confirmation | Final resul | Final resul | | |
| | O&A | Palcam | O&A | Palcam | | | L.spp | L.monocytogenes | O&A | L.spp | L.mono | L.spp | L.mno |
| G3 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| G8 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| G9 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| G12 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| G15 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| G18 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| G20 | - | - | - | - | / | - | +(ct:38,27) | - | - | - | - | **PD** | **NA** |
| G21 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| G1 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| G4 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| G7 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| G10 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| G11 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| G13 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| G17 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| G24 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| G2 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| G5 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| G6 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| G14 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| G16 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| G19 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| G22 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| G23 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |

**Laboratory** H
Aerobic mesophilic flora:1,1.$10^7$/g

| Sample N° | Reference method ISO 11290-1 | | | | | | Alternative method: GeneDisc Listeria DUO | | | | | Agreement | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Half -fraser | | Fraser | | Confirmation | Final result | PCR Listeria DUO | | Confirmation | Final resul | Final resul | | |
| | O&A | Palcam | O&A | Palcam | | | L.spp | L.monocytogenes | O&A | L.spp | L.mono | L.spp | L.mno |
| H3 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| H8 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| H9 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| H12 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| H15 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| H18 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| H20 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| H21 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| H1 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| H4 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| H7 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| H10 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| H11 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| H13 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| H17 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| H24 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| H2 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| H5 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| H6 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| H14 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| H16 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| H19 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| H22 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| H23 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |

**Laboratory** I
Aerobic mesophilic flora:1,1.$10^7$/g

| Sample N° | Reference method ISO 11290-1 | | | | | | Alternative method: GeneDisc Listeria DUO | | | | | Agreement | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Half -fraser | | Fraser | | Confirmation | Final result | PCR Listeria DUO | | Confirmation | Final resul | Final resul | | |
| | O&A | Palcam | O&A | Palcam | | | L.spp | L.monocytogenes | O&A | L.spp | L.mono | L.spp | L.mno |
| I3 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| I8 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| I9 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| I12 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| I15 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| I18 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| I20 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| I21 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| I1 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| I4 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| I7 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| I10 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| I11 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| I13 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| I17 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| I24 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| I2 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| I5 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| I6 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| I14 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| I16 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| I19 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| I22 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| I23 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |

**Laboratory** J
Aerobic mesophilic flora:1,1.10$^{7}$/g

| Sample N° | Reference method ISO 11290-1 | | | | | | Alternative method: GeneDisc Listeria DUO | | | | | Agreement | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Half -fraser | | Fraser | | Confirmation | Final result | PCR Listeria DUO | | Confirmation | Final resul | Final resul | | |
| | O&A | Palcam | O&A | Palcam | | | L.spp | L.monocytogenes | O&A | L.spp | L.mono | L.spp | L.mno |
| J3 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| J8 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| J9 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| J12 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| J15 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| J18 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| J20 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| J21 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| J1 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| J4 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| J7 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| J10 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| J11 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| J13 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| J17 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| J24 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| J2 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| J5 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| J6 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| J14 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| J16 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| J19 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| J22 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| J23 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |

**Laboratory** K
Aerobic mesophilic flora:1,1.$10^7$/g

| Sample N° | Reference method ISO 11290-1 | | | | | | Alternative method: GeneDisc Listeria DUO | | | | | Agreement | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Half -fraser | | Fraser | | Confirmation | Final result | PCR Listeria DUO | | Confirmation | Final resul | Final resul | | |
| | O&A | Palcam | O&A | Palcam | | | L.spp | L.monocytogenes | O&A | L.spp | L.mono | L.spp | L.mno |
| K3 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| K8 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| K9 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| K12 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| K15 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| K18 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| K20 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| K21 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| K1 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| K4 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| K7 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| K10 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| K11 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| K13 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| K17 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| K24 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| K2 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| K5 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| K6 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| K14 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| K16 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| K19 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| K22 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| K23 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |

**Laboratory** L
Aerobic mesophilic flora:1,1.10$^{7}$/g

| Sample N° | Reference method ISO 11290-1 | | | | | | Alternative method: GeneDisc Listeria DUO | | | | | Agreement | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Half -fraser | | Fraser | | Confirmation | Final result | PCR Listeria DUO | | Confirmation | Final resul | Final resul | | |
| | O&A | Palcam | O&A | Palcam | | | L.spp | L.monocytogenes | O&A | L.spp | L.mono | L.spp | L.mno |
| L3 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| L8 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| L9 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| L12 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| L15 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| L18 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| L20 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| L21 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| L1 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| L4 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| L7 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| L10 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| L11 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| L13 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| L17 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| L24 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| L2 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| L5 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| L6 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| L14 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| L16 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| L19 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| L22 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| L23 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |

**Laboratory** M
Aerobic mesophilic flora:1,1.$10^7$/g

| Sample N° | Reference method ISO 11290-1 | | | | | | Alternative method: GeneDisc Listeria DUO | | | | | Agreement | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Half -fraser | | Fraser | | Confirmation | Final result | PCR Listeria DUO | | Confirmation | Final resul | Final resul | | |
| | O&A | Palcam | O&A | Palcam | | | L.spp | L.monocytogenes | O&A | L.spp | L.mono | L.spp | L.mno |
| M3 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| M8 | - | - | - | - | / | - | - | +(ct:38,2;1854) | / | - | - | **NA** | **NA** |
| M9 | - | - | - | - | / | - | - | +(ct:36,6;1654) | / | - | - | **NA** | **NA** |
| M12 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| M15 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| M18 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| M20 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| M21 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| M1 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| M4 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| M7 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| M10 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| M11 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| M13 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| M17 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| M24 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| M2 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| M5 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| M6 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| M14 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| M16 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| M19 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| M22 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| M23 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |

**Laboratory** N(ADRIA)
Aerobic mesophilic flora:1,1.10$^7$/g

| Sample N° | Reference method ISO 11290-1♦ | | | | | | Alternative method: GeneDisc Listeria DUO | | | | | Agreement | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Half -fraser | | Fraser | | Confirmation | Final result | PCR Listeria DUO | | Confirmation | Final resul | Final resul | | |
| | O&A | Palcam | O&A | Palcam | | | L.spp | L.monocytogenes | O&A | L.spp | L.mono | L.spp | L.mno |
| N3 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| N8 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| N9 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| N12 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| N15 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| N18 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| N20 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| N21 | - | - | - | - | / | - | - | - | / | - | - | **NA** | **NA** |
| N1 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| N4 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| N7 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| N10 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| N11 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| N13 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| N17 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| N24 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| N2 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| N5 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| N6 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| N14 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| N16 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| N19 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| N22 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |
| N23 | + | + | + | + | L.mono | + | + | + | + | + | + | **PA** | **PA** |

♦ Analyses performed according to the COFRAC accreditation