

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

**Summary report**

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

**Solus *E. coli* O157 ELISA**

(Certificate number: SOL 37/03 - 10/15)

for the detection of *E. coli* O157 (including *E. coli* O157:H7) in a broad range of foods and production environmental samples

**Qualitative method**

|                                |  |
|--------------------------------|--|
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This report consists of 89 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♦.

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Quality Assurance documents related to this study can be consulted upon request from **Solus Scientific Solutions Ltd**.

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

|                               |   |
|-------------------------------|---|
| <b>Validation protocols</b>   | <ul style="list-style-type: none"> <li>▪ EN ISO 16140-1 (June 2016): Microbiology of the food chain - Method validation - <i>Part 1: Vocabulary</i></li> <li>▪ EN ISO 16140-2 (June 2016): Microbiology of the food chain - Method validation - <i>Part 2: Protocol for the validation of alternative (proprietary) methods against a reference method</i></li> <li>▪ AFNOR Technical Rules (PR Revision n° 7)</li> </ul> |
| <b>Reference method*</b>      | <ul style="list-style-type: none"> <li>▪ ISO 16654 (May 2011): Microbiology of food and animal feeding stuffs - Horizontal method for the detection of <i>Escherichia coli</i> O157</li> <li>▪ ISO 16654/A1 (March 2017): Microbiology of food and animal feeding stuffs - Horizontal method for the detection of <i>Escherichia coli</i> O157 - Amendment 1: annex B: result of inter-laboratory studies</li> </ul>      |
| <b>Alternative method</b>     | <b>Solus <i>E. coli</i> O157 ELISA Screening Assay</b>  |
| <b>Scope</b>                  | <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> <b>Broad range of foods</b></li> <li><input checked="" type="checkbox"/> <b>Environmental samples</b></li> </ul>   |
| <b>Certification organism</b> | AFNOR Certification ( <a href="http://nf-validation.afnor.org/">http://nf-validation.afnor.org/</a> )   |

## 1 AIM OF THE STUDY

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The validation study of the **Solus *E. coli* O157 ELISA Screening Assay for the detection of *Escherichia coli* O157 (including *E. coli* O157:H7)** in raw beef meat products (seasoned or not), raw milks and dairy products, vegetables, and production environmental samples was performed in 2015 according to the EN ISO 16140 (2003) protocol (Certificate No SOL 37/03 - 10/15).

The alternative method was renewed in October 2019 according to the EN ISO 16140-2:2016.

An extension was obtained in October 2022 for:

- two new categories:
  - RTE, RTRH and cooked meats
  - Pasteurized milk and cheeses products
  
- a modification of the scope of the raw beef meat category as follows:
  - Raw beef **and pork** meat (seasoned or not)

**This allows to extend the scope of the method to a broad range of foods and production environmental samples.**

## 2 METHOD PROTOCOLS

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### 2.1 Alternative method

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

#### 2.1.1 Principle

The alternative method is based on an enzyme-linked immuno-sorbent assay.

#### 2.1.2 Protocol

The different steps are:

- Enrichment step in mTSB (non-pre-warmed) + novobiocin (20 mg/l) during 16 – 20 hours at 41.5°C ± 1°C,

- ELISA test on a heat-treated aliquot (15 - 20 min at 85°C - 100°C) using the manual protocol or automated protocol (DS2 or DSX automate)
- Confirmation step by streaking the enrichment broth (10 µl) onto CT-SMAC and a chromogenic agar plate and by performing latex tests on characteristic colonies with or without a purification step for the O157 latex test (Microgen *E. coli* O157 M44<sup>1</sup> CE OR OXOID Remel RIM *E. coli* O157:H7 R24250), and after a purification step for the H7 latex test.

If a discordant result is observed between the ELISA test and the confirmatory test, an IMS is performed on 1 ml of enrichment broth prior to streaking onto selective agar plates.

**In order to offer more practicability, it is possible to store the enrichment broths for 72 h at 5°C ± 3°C prior to analysis with the Solus *E. coli* O157 test.**

### 2.1.3 Restrictions

There is no restriction for use.

## 2.2 Reference method♦

The reference method used was the ISO 16654 method (2011): Microbiology of food and animal feeding stuffs - Horizontal method for the detection of *Escherichia coli* O157 and its amendment: ISO 16654/A1 (March 2017): Microbiology of food and animal feeding stuffs - Horizontal method for the detection of *Escherichia coli* O157 - Amendment 1: annex B: result of inter-laboratory studies (See **Appendix 2**).

## 2.3 Study design

As the mTSB + Novobiocin is not pre-warmed for the alternative method while it is the case for the reference method, this is an UNPAIRED STUDY DESIGN.

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<sup>1</sup> Not currently available

♦ Analysis performed according to the COFRAC accreditation

## 3 METHOD COMPARISON STUDY

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

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

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

### 3.1 Sensitivity study

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

#### 3.1.1 Number and nature of samples

Taking into account the initial and the extension studies, 426 samples were analysed providing 201 positive samples and 225 negative samples.

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

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

| Category              |  | Type  | Positive  | Negative   | Total      |    |
|-----------------------|--|-------|---|------------|------------|----|
| 1                     | Raw beef and pork meat (seasoned or not) | a     | Chilled and frozen minced beef and pork                                 | 17         | 16         | 33 |
|                       |  | b     | Minced meat preparations (seasoned)                                     | 15         | 16         | 31 |
|                       |  | c     | Chilled and frozen beef trim and pork                                   | 15         | 15         | 30 |
|                       |  | Total |   | 47         | 47         | 94 |
| 2                     | Raw milk and dairy products              | a     | Raw milk  | 10         | 11         | 21 |
|                       |  | b     | Raw acidified or fermented milk   | 13         | 10         | 23 |
|                       |  | c     | Raw milk cheeses  | 8          | 13         | 21 |
|                       |  | Total |   | 31         | 34         | 65 |
| 3                     | Vegetables                               | a     | Produces and leafy greens   | 7          | 14         | 21 |
|                       |  | b     | Processed vegetables  | 13         | 12         | 25 |
|                       |  | c     | sprouts and aromatic herbs  | 10         | 13         | 23 |
|                       |  | Total |   | 30         | 39         | 69 |
| 4                     | Environmental Samples                    | a     | Sponges, swabs,   | 9          | 20         | 29 |
|                       |  | b     | Process water   | 10         | 10         | 20 |
|                       |  | c     | Dusts, residues, siphons  | 11         | 9          | 20 |
|                       |  | Total |   | 30         | 39         | 69 |
| 5                     | Composite foods and cooked deli meats    | a     | Composite processed foods (cooked): hot meals (lasagne, curry and rice) | 11         | 9          | 20 |
|                       |  | b     | Ready to eat and reheat foods: sandwich, quiche, pie, sausage rolls     | 10         | 14         | 24 |
|                       |  | c     | Cooked deli meats: sliced beef, pork, chicken                           | 11         | 13         | 24 |
|                       |  | Total |   | 32         | 36         | 68 |
| 6                     | Pasteurized milk and dairy products      | a     | Pasteurized milk  | 14         | 16         | 30 |
|                       |  | b     | Pasteurized milk cheese   | 17         | 14         | 31 |
|                       |  | Total |   | 31         | 30         | 61 |
| <b>All categories</b> |  |       | <b>201</b>  | <b>225</b> | <b>426</b> |    |

### 3.1.2 Artificial contamination of samples

Artificial contaminations were done by seeding or spiking protocol. The artificial contaminations are presented in **Appendix 3**.

For all combined categories, 317 samples were artificially contaminated, using 81 different strains. 200 gave a positive result. 54,2 % of samples were inoculated at level  $\leq 3$  CFU and 10,0 % were inoculated between 3 and 10 CFU using the seeding protocol, and 35,3% were inoculated at level  $\leq 5$  CFU using the spiking protocol.

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 | Spiking protocol | Seeding protocol |                | Total  |
|-------------------|------------------------|------------------|------------------|----------------|--------|
|                   |                        | ≤ 5 CFU          | ≤ 3 CFU          | 3 < x ≤ 10 CFU |        |
| Number of samples | 1                      | 71               | 109              | 20             | 201    |
| %                 | 0,5%                   | 35,3%            | 54,2%            | 10,0%          | 100,0% |

**Combining all the categories tested, 0.5 % of the samples were naturally contaminated.**

### 3.1.3 Protocols applied during the validation study

#### > Incubation time

The minimum incubation time was applied: 16 h at 41.5°C.

#### ✚ ELISA test

Only the automated protocol using the Dynex 2 (DS2) automate was tested.

#### > Confirmations

The confirmation step was performed by streaking the enrichment broth (10 µl) onto CT-SMAC and a chromogenic agar plate and by performing latex tests on characteristic colonies with or without a purification step for the O157 latex test, and after a purification step for the H7 latex test. Two latex tests were used for the validation study:

- Initial validation:
  - Microgen® *E. coli* O157 latex test (M44 CE\*)
  - Remel™ Wellcolex™ *E. coli* O157:H7 (R30959601)
  - \*Not currently available
- Renewal and extension studies:
  - Microgen® *E. coli* O157 latex test (M44 CE\*)
  - Remel™ RIM *E. coli* O157:H7 latex test (R24250)
  - \*Not currently available

Note that the Wellcolex *E. coli* O157:H7 R30959601 latex test was used for the initial validation study but as this reference is no longer available, the Remel RIM *E. coli* O157:H7 was used for the renewal study and extension study.

If a discordant result was observed between the ELISA test and the confirmatory test, an IMS step was performed on 1 ml of enrichment broth prior streaking onto selective agar plates.

The negative samples were confirmed by the protocol described in the ISO 16654 method (IMS step prior streaking onto CT-SMAC and CHROMagar O157).

### > Enrichment broth storage

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

#### 3.1.4 Test results

Raw data obtained for this extension study are given in **Appendix 4**. The results are given in Table 3 for all categories.

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

| Category                                   | PA        | NA*        | PD        | ND**      | PPND     | PPNA     | TOTAL      |
|--|-----------|------------|-----------|-----------|----------|----------|------------|
| 1 Raw beef and pork meat (seasoned or not) | 26        | 47         | 13        | 8         | 0        | 0        | 94         |
| 2 Raw milk and dairy products              | 13        | 34         | 12        | 6         | 0        | 0        | 65         |
| 3 Vegetables                               | 11        | 37         | 9         | 10        | 0        | 2        | 69         |
| 4 Environmental samples                    | 17        | 39         | 7         | 6         | 0        | 0        | 69         |
| 5 Composite foods and cooked deli meats    | 15        | 36         | 10        | 7         | 0        | 0        | 68         |
| 6 Pasteurized milk and dairy products      | 17        | 30         | 7         | 7         | 0        | 0        | 61         |
| <b>All categories</b>                      | <b>99</b> | <b>223</b> | <b>58</b> | <b>44</b> | <b>0</b> | <b>2</b> | <b>426</b> |

\* PPNA not included

\*\* PPND not included

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

The calculations are presented in Table 4 for all categories.

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

| Category              |  | Type  | PA        | NA*        | PD        | ND**      | PPND     | PPNA     | SE <sub>alt</sub> % | SE <sub>ref</sub> % | RT %        | FPR %      |
|-----------------------|--|---|-----------|------------|-----------|-----------|----------|----------|---------------------|---------------------|-------------|------------|
| 1                     | Raw beef and pork meat (seasoned or not) | a Chilled and frozen minced beef and pork                                 | 7         | 16         | 6         | 4         | 0        | 0        | 76,5                | 64,7                | 69,7        | 0,0        |
|                       |  | b Minced meat preparations (seasoned)                                     | 11        | 16         | 3         | 1         | 0        | 0        | 93,3                | 80,0                | 87,1        | 0,0        |
|                       |  | c Chilled and frozen beef trim and pork                                   | 8         | 15         | 4         | 3         | 0        | 0        | 80,0                | 73,3                | 76,7        | 0,0        |
|                       |  | Total   | 26        | 47         | 13        | 8         | 0        | 0        | 83,0                | 72,3                | 77,7        | 0,0        |
| 2                     | Raw milk and dairy products              | a Raw milk  | 4         | 11         | 6         | 0         | 0        | 0        | 100,0               | 40,0                | 71,4        | 0,0        |
|                       |  | b Raw acidified or fermented milk   | 4         | 10         | 5         | 4         | 0        | 0        | 69,2                | 61,5                | 60,9        | 0,0        |
|                       |  | c Raw milk cheeses  | 5         | 13         | 1         | 2         | 0        | 0        | 75,0                | 87,5                | 85,7        | 0,0        |
|                       |  | Total   | 13        | 34         | 12        | 6         | 0        | 0        | 80,6                | 61,3                | 72,3        | 0,0        |
| 3                     | Vegetables                               | a Produces and leafy greens   | 3         | 12         | 3         | 1         | 0        | 2        | 85,7                | 57,1                | 81,0        | 14,3       |
|                       |  | b Processed vegetables  | 5         | 12         | 4         | 4         | 0        | 0        | 69,2                | 69,2                | 68,0        | 0,0        |
|                       |  | c sprouts and aromatic herbs  | 3         | 13         | 2         | 5         | 0        | 0        | 50,0                | 80,0                | 69,6        | 0,0        |
|                       |  | Total   | 11        | 37         | 9         | 10        | 0        | 2        | 66,7                | 70,0                | 72,5        | 5,1        |
| 4                     | Environmental Samples                    | a Sponges, swabs,   | 3         | 20         | 5         | 1         | 0        | 0        | 88,9                | 44,4                | 79,3        | 0,0        |
|                       |  | b Process water   | 7         | 10         | 0         | 3         | 0        | 0        | 70,0                | 100,0               | 85,0        | 0,0        |
|                       |  | c Dusts, residues, siphons  | 7         | 9          | 2         | 2         | 0        | 0        | 81,8                | 81,8                | 80,0        | 0,0        |
|                       |  | Total   | 17        | 39         | 7         | 6         | 0        | 0        | 80,0                | 76,7                | 81,2        | 0,0        |
| 5                     | Composite foods and cooked deli meats    | a Composite processed foods (cooked): hot meals (lasagne, curry and rice) | 6         | 9          | 3         | 2         | 0        | 0        | 81,8                | 72,7                | 75,0        | 0,0        |
|                       |  | b Ready to eat and reheat foods: sandwich, quiche, pie, sausage rolls     | 5         | 14         | 2         | 3         | 0        | 0        | 70,0                | 80,0                | 79,2        | 0,0        |
|                       |  | c Cooked deli meats: sliced beef, pork, chicken                           | 4         | 13         | 5         | 2         | 0        | 0        | 81,8                | 54,5                | 70,8        | 0,0        |
|                       |  | Total   | 15        | 36         | 10        | 7         | 0        | 0        | 78,1                | 68,8                | 75,0        | 0,0        |
| 6                     | Pasteurized milk and dairy products      | a Pasteurized milk  | 8         | 16         | 5         | 1         | 0        | 0        | 92,9                | 64,3                | 80,0        | 0,0        |
|                       |  | b Pasteurized milk cheese   | 9         | 14         | 2         | 6         | 0        | 0        | 64,7                | 88,2                | 74,2        | 0,0        |
|                       |  | Total   | 17        | 30         | 7         | 7         | 0        | 0        | 77,4                | 77,4                | 77,0        | 0,0        |
| <b>All categories</b> |  |   | <b>99</b> | <b>223</b> | <b>58</b> | <b>44</b> | <b>0</b> | <b>2</b> | <b>78,1</b>         | <b>71,1</b>         | <b>76,1</b> | <b>0,9</b> |

\* PPNA not included

\*\* PPND not included

A summary of the results is given in Table 5.

**Table 5 - Summary of results**

|  |  |        |
|--|--|--------|
| Sensitivity for the alternative method                               | $SE_{alt} = \frac{(PA + PD)}{(PA + ND + PD)} \times 100\%$ | 78,1 % |
| Sensitivity for the reference method                                 | $SE_{ref} = \frac{(PA + ND)}{(PA + ND + PD)} \times 100\%$ | 71,1 % |
| Relative trueness  | $RT = \frac{(PA + NA)}{N} \times 100\%$                    | 76,1 % |
| False positive ratio for the alternative method*<br>FP = PPNA + PPND | $FPR = \frac{(FP)}{NA} \times 100\%$                       | 0,9 %  |

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

### 3.1.6 Analysis of discordant results

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

Considering all tested categories, 44 negative deviations were obtained. *Escherichia coli* O157:H7 was recovered in the mTSB enrichment broth for 4 of the samples (n° 4297, 8, 1335 and 819). The contamination level was probably below the detection level of the alternative method in these cases. The ELISA tests were repeated twice for these samples and for one of them (4297), two positive results were observed. For the 40 other samples, the negative results were probably due to the sampling heterogeneity in this unpaired data study.

For the overall categories tested, 58 positive deviations were observed. One concerned naturally contaminated sample (Raw milk) and 57 concerned artificially contaminated samples.

Table 6 - Negative deviations

| Year of analysis | Sample N° | Product                   | Artificial contaminations     |                          | Reference method ISO 16654 <sup>♦</sup> | Alternative method: Solus E. coli O157 (including E. coli O157:H7) |             |              |              |           | Category | Type |
|------------------|-----------|---------------------------|-------------------------------|--------------------------|---|--|-------------|--------------|--------------|-----------|----------|------|
|                  |           |                           | Strain                        | Inoculation level/sample |   | O.D.   | Result      | Confirmation | Final result | Agreement |          |      |
| 2015             | 4164      | Frozen ground beef 5% fat | <i>E. coli</i> O157:H7 Ad489  | 1,2                      | +                                       | 0,068  | -           | -            | -            | ND        | 1        | a    |
| 2015             | 297       | Frozen ground beef        | <i>E. coli</i> O157:H7 Ad487  | 1,0                      | +                                       | 0,08   | -           | -            | -            | ND        | 1        | a    |
| 2022             | 1418      | Fresh minced pork         | <i>E. coli</i> O157:H7 Ad933  | 1,4                      | +                                       | 0,011  | -           | -            | -            | ND        | 1        | a    |
| 2022             | 1419      | Fresh minced pork         | <i>E. coli</i> O157:H7 Ad976  | 3,2                      | +                                       | 0,009  | -           | -            | -            | ND        | 1        | a    |
| 2022             | 851       | Raw pork meat             | <i>E. coli</i> O157:H7 803    | 3,0                      | +                                       | 0,012  | -           | -            | -            | ND        | 1        | b    |
| 2015             | 4168      | Beef trim                 | <i>E. coli</i> O157:H7 Ad560  | 1,8                      | +                                       | 0,11   | -           | -            | -            | ND        | 1        | c    |
| 2015             | 115       | Frozen beef trim          | <i>E. coli</i> O157:H7 Ad585  | 1,0                      | +                                       | 0,075  | -           | -            | -            | ND        | 1        | c    |
| 2022             | 602       | Chilled pork trim         | <i>E. coli</i> O157:H7 AZ06RP | 1,6                      | +                                       | 0,028  | -           | -            | -            | ND        | 1        | c    |
| 2015             | 3999      | Fermented milk            | <i>E. coli</i> O157:H7 Ad557  | 1,6                      | +                                       | 0,064  | -           | -            | -            | ND        | 2        | b    |
| 2015             | 4000      | Fermented milk            | <i>E. coli</i> O157:H7 Ad577  | 2,6                      | +                                       | 0,061  | -           | -            | -            | ND        | 2        | b    |
| 2015             | 4297      | Fermented cream           | <i>E. coli</i> O157:H7 Ad574  | 0,8                      | +                                       | 0,102<br>0,261<br>0,265  | -<br>+<br>+ | +            | -            | ND        | 2        | b    |
| 2015             | 4304      | Fermented yoghurt         | <i>E. coli</i> O157:H7 Ad580  | 2,2                      | +                                       | 0,065  | -           | -            | -            | ND        | 2        | b    |
| 2015             | 4188      | Raw milk cheese           | <i>E. coli</i> O157:H7 Ad579  | 2,4                      | +                                       | 0,063  | -           | -            | -            | ND        | 2        | c    |
| 2015             | 136       | Raw milk cheese           | <i>E. coli</i> O157:H7 Ad1745 | 1,4                      | +                                       | 0,063  | -           | -            | -            | ND        | 2        | c    |
| 2015             | 4176      | Baby leaves               | <i>E. coli</i> O157:H7 Ad578  | 1,0                      | +                                       | 0,073  | -           | -            | -            | ND        | 3        | a    |
| 2015             | 3993      | Frozen peas               | <i>E. coli</i> O157:H7 Ad558  | 0,8                      | +                                       | 0,068  | -           | -            | -            | ND        | 3        | b    |
| 2015             | 3995      | Frozen flat beans         | <i>E. coli</i> O157:H7 Ad575  | 0,8                      | +                                       | 0,061  | -           | -            | -            | ND        | 3        | b    |
| 2015             | 4183      | Frozen spinach            | <i>E. coli</i> O157:H7 EF190  | 1,4                      | +                                       | 0,061  | -           | -            | -            | ND        | 3        | b    |
| 2015             | 15        | Vegetables deli salad     | <i>E. coli</i> O157:H7 Ad576  | 3,6                      | +                                       | 0,054  | -           | -            | -            | ND        | 3        | b    |
| 2015             | 4180      | Sprouts                   | <i>E. coli</i> O157:H7 Ad577  | 2,0                      | +                                       | 0,058  | -           | -            | -            | ND        | 3        | c    |
| 2015             | 4290      | Sprouts                   | <i>E. coli</i> O157:H7 Ad582  | 1,2                      | +                                       | 0,076  | -           | -            | -            | ND        | 3        | c    |
| 2015             | 5         | Sprouts                   | <i>E. coli</i> O157:H7 Ad573  | 3,4                      | +                                       | 0,06   | -           | -            | -            | ND        | 3        | c    |

♦ Analyses performed according to the COFRAC accreditation

ADRIA Développement

Summary report (Version 0)

Solus E. coli O157 ELISA

| Year of analysis | Sample N° | Product                         | Artificial contaminations     |                          | Reference method ISO 16654* | Alternative method: Solus E. coli O157 (including E. coli O157:H7) |             |                   |              |                | Category | Type |
|------------------|-----------|---------------------------------|-------------------------------|--------------------------|-----------------------------|--|-------------|-------------------|--------------|----------------|----------|------|
|                  |           |                                 | Strain                        | Inoculation level/sample |                             | O.D.   | Result      | Confirmation      | Final result | Agreement      |          |      |
| 2015             | 6         | Sprouts                         | <i>E. coli</i> O157:H7 Ad571  | 4,8                      | +                           | 0,063  | -           | -                 | -            | ND             | 3        | c    |
| 2015             | 8         | Sprouts                         | <i>E. coli</i> O157:H7 Ad576  | 3,6                      | +                           | 0,123<br>0,135<br>0,135  | -<br>-<br>- | +<br>-<br>-       | -<br>-<br>-  | ND<br>ND<br>ND | 3        | c    |
| 2015             | 361       | Wipe (sprout industry)          | <i>E. coli</i> O157:H7 Ad573  | 2,2                      | +                           | 0,069  | -           | -                 | -            | ND             | 4        | a    |
| 2015             | 364       | Process water (sprout industry) | <i>E. coli</i> O157:H7 Ad579  | 1,8                      | +                           | 0,074  | -           | -                 | -            | ND             | 4        | b    |
| 2015             | 1252      | Process water                   | <i>E. coli</i> O157:H7 Ad552  | 2,2                      | +                           | 0,068  | -           | -                 | -            | ND             | 4        | b    |
| 2015             | 1263      | Process water                   | <i>E. coli</i> O157:H7 Ad553  | 3,4                      | +                           | 0,057  | -           | -                 | -            | ND             | 4        | b    |
| 2015             | 354       | Dusts (sprout industry)         | <i>E. coli</i> O157:H7 Ad576  | 1,0                      | +                           | 0,056  | -           | -                 | -            | ND             | 4        | c    |
| 2015             | 1335      | Dusts (dairy industry)          | <i>E. coli</i> O157:H7 Ad555  | 1,8                      | +                           | 0,060<br>0,062<br>0,075  | -<br>-<br>- | +<br>-<br>-       | -<br>-<br>-  | ND<br>ND<br>ND | 4        | c    |
| 2022             | 606       | Hot meal: bacon pasta cream     | <i>E. coli</i> O157:H7 BV2    | 2,2                      | +                           | 0,007  | -           | -                 | -            | ND             | 5        | a    |
| 2022             | 813       | Hot meal: chicory gratin        | <i>E. coli</i> O157:H7 435    | 2,0                      | +                           | 0,011  | -           | -                 | -            | ND             | 5        | a    |
| 2022             | 610       | RTRH: Croque Monsieur           | <i>E. coli</i> O157:H7 769    | 2,8                      | +                           | 0,017  | -           | -                 | -            | ND             | 5        | b    |
| 2022             | 818       | RTRH: Quiche Lorraine           | <i>E. coli</i> O157:H7 435    | 2,0                      | +                           | 0,011  | -           | -                 | -            | ND             | 5        | b    |
| 2022             | 819       | RTE: salad pasta chicken eggs   | <i>E. coli</i> O157:H7 435    | 2,0                      | +                           | 0,047<br>0,128<br>0,126  | -<br>-<br>- | + (IMS)<br>-<br>- | -<br>-<br>-  | ND<br>ND<br>ND | 5        | b    |
| 2022             | 821       | Cooked beef meat                | <i>E. coli</i> O157:H7 A425TK | 2,2                      | +                           | 0,002  | -           | -                 | -            | ND             | 5        | c    |
| 2022             | 1036      | Cooked chicken meat             | <i>E. coli</i> O157:H7 1211-1 | 2,0                      | +                           | 0,015  | -           | -                 | -            | ND             | 5        | c    |
| 2022             | 828       | Pasteurized cow milk            | <i>E. coli</i> O157:H7 Ad2843 | 3,0                      | +                           | 0,000  | -           | -                 | -            | ND             | 6        | a    |
| 2022             | 853       | Pasteurized cow milk cheese     | <i>E. coli</i> O157:H7 Ad3101 | 2,4                      | +                           | 0,017  | -           | -                 | -            | ND             | 6        | b    |
| 2022             | 855       | Pasteurized cow milk cheese     | <i>E. coli</i> O157:H7 Ad3038 | 1,4                      | +                           | 0,009  | -           | -                 | -            | ND             | 6        | b    |
| 2022             | 857       | Pasteurized ewe milk cheese     | <i>E. coli</i> O157:H7 Ad2846 | 1,6                      | +                           | 0,004  | -           | -                 | -            | ND             | 6        | b    |
| 2022             | 1110      | Pasteurized cow milk cheese     | <i>E. coli</i> O157:H7 Ad3185 | 2,0                      | +                           | 0,023  | -           | -                 | -            | ND             | 6        | b    |
| 2022             | 1111      | Pasteurized cow milk cheese     | <i>E. coli</i> O157:H7 Ad2676 | 3,8                      | +                           | 0,031  | -           | -                 | -            | ND             | 6        | b    |
| 2022             | 1118      | Pasteurized ewe milk cheese     | <i>E. coli</i> O157:H7 Ad2676 | 3,8                      | +                           | 0,000  | -           | -                 | -            | ND             | 6        | b    |

Table 7 - Positive deviations

| Year of analysis | Sample N° | Product                          | Artificial contaminations     |                          | Reference method ISO 16654 | Alternative method:<br>Solus <i>E. coli</i> O157 (including <i>E. coli</i> O157:H7) |        |              |              |           | Category | Type |
|------------------|-----------|----------------------------------|-------------------------------|--------------------------|----------------------------|---|--------|--------------|--------------|-----------|----------|------|
|                  |           |                                  | Strain                        | Inoculation level/sample |                            | O.D.  | Result | Confirmation | Final result | Agreement |          |      |
| 2015             | 4165      | Frozen ground beef               | <i>E. coli</i> O157:H7 Ad489  | 1,2                      | -                          | 2,750   | +      | +            | +            | PD        | 1        | a    |
| 2015             | 4276      | Frozen ground beef 10% fat       | <i>E. coli</i> O157:H7 Ad485  | 1,2                      | -                          | 2,678   | +      | +            | +            | PD        | 1        | a    |
| 2015             | 121       | Frozen ground beef 15% fat       | <i>E. coli</i> O157:H7 Ad585  | 1,0                      | -                          | 2,699   | +      | +            | +            | PD        | 1        | a    |
| 2022             | 597       | Chilled pork minced              | <i>E. coli</i> O157:H7 LS3    | 2,8                      | -                          | 0,881   | +      | +            | +            | PD        | 1        | a    |
| 2022             | 1270      | Frozen minced pork               | <i>E. coli</i> O157:H7 Ad587  | 3,2                      | -                          | 1,174   | +      | +            | +            | PD        | 1        | a    |
| 2022             | 1271      | Frozen minced pork               | <i>E. coli</i> O157:H7 Ad587  | 3,2                      | -                          | 0,647   | +      | +            | +            | PD        | 1        | a    |
| 2015             | 4170      | Beef meat                        | <i>E. coli</i> O157:H7 Ad683  | 0,8                      | -                          | 2,757   | +      | +            | +            | PD        | 1        | b    |
| 2015             | 4173      | Carpaccio                        | <i>E. coli</i> O157:H7 Ad924  | 0,8                      | -                          | 2,688   | +      | +            | +            | PD        | 1        | b    |
| 2022             | 678       | Frozen seasoned ground pork meat | <i>E. coli</i> O157:H7 LS56   | 4,0                      | -                          | 0,925   | +      | +            | +            | PD        | 1        | b    |
| 2015             | 4167      | Beef trim                        | <i>E. coli</i> O157:H7 Ad559  | 1,0                      | -                          | 2,73  | +      | +            | +            | PD        | 1        | c    |
| 2015             | 4284      | Frozen beef trim                 | <i>E. coli</i> O157:H7 Ad1248 | 1,0                      | -                          | 2,682   | +      | +            | +            | PD        | 1        | c    |
| 2015             | 117       | Frozen beef trim                 | <i>E. coli</i> O157:H7 Ad1174 | 0,6                      | -                          | 2,59  | +      | +            | +            | PD        | 1        | c    |
| 2022             | 679       | Frozen pork trim                 | <i>E. coli</i> O157:H7 LS56   | 4,0                      | -                          | 1,406   | +      | +            | +            | PD        | 1        | c    |
| 2015             | 127       | Raw Milk                         | <i>E. coli</i> O157:H7 Ad576  | 1,6                      | -                          | 1,295   | +      | +            | +            | PD        | 2        | a    |
| 2015             | 130       | Raw Milk                         | <i>E. coli</i> O157:H7 Ad578  | 1,0                      | -                          | 1,161   | +      | +            | +            | PD        | 2        | a    |
| 2015             | 132       | Raw Milk                         | <i>E. coli</i> O157:H7 Ad576  | 1,6                      | -                          | 2,67  | +      | +            | +            | PD        | 2        | a    |
| 2015             | 134       | Raw Milk                         | <i>E. coli</i> O157:H7 Ad578  | 1,0                      | -                          | 1,916   | +      | +            | +            | PD        | 2        | a    |
| 2015             | 302       | Raw milk                         | <i>E. coli</i> O157:H7 Ad1745 | 2,0                      | -                          | 2,507   | +      | +            | +            | PD        | 2        | a    |
| 2019             | 4920      | Raw milk                         | /                             |                          | -                          | 1,127   | +      | +            | +            | PD        | 2        | a    |
| 2015             | 4001      | Fermented milk                   | <i>E. coli</i> O157:H7 Ad578  | 2,4                      | -                          | 2,842   | +      | +            | +            | PD        | 2        | b    |
| 2015             | 4299      | Fermented yoghurt                | <i>E. coli</i> O157:H7 Ad581  | 1,4                      | -                          | 2,785   | +      | +            | +            | PD        | 2        | b    |
| 2015             | 4300      | Fermented milk                   | <i>E. coli</i> O157:H7 Ad582  | 1,2                      | -                          | 2,81  | +      | +            | +            | PD        | 2        | b    |
| 2015             | 4301      | Fermented milk                   | <i>E. coli</i> O157:H7 Ad582  | 1,2                      | -                          | 2,801   | +      | +            | +            | PD        | 2        | b    |
| 2015             | 4305      | Fermented milk                   | <i>E. coli</i> O157:H7 Ad581  | 1,4                      | -                          | 2,75  | +      | +            | +            | PD        | 2        | b    |
| 2015             | 4184      | Raw milk cheese                  | <i>E. coli</i> O157:H7 Ad571  | 1,8                      | -                          | 0,695   | +      | +(H7d)       | +            | PD        | 2        | c    |
| 2015             | 3987      | Produce                          | <i>E. coli</i> O157:H7 Ad556  | 2,2                      | -                          | 2,451   | +      | +            | +            | PD        | 3        | a    |

| Year of analysis | Sample N° | Product                        | Artificial contaminations     |                          | Reference method ISO 16654 | Alternative method: Solus <i>E. coli</i> O157 (including <i>E. coli</i> O157:H7) |        |              |              |           | Category | Type |
|------------------|-----------|--------------------------------|-------------------------------|--------------------------|----------------------------|--|--------|--------------|--------------|-----------|----------|------|
|                  |           |                                | Strain                        | Inoculation level/sample |                            | O.D.   | Result | Confirmation | Final result | Agreement |          |      |
| 2015             | 4175      | Baby leaves                    | <i>E. coli</i> O157:H7 EF190  | 1,4                      | -                          | 2,648  | +      | +            | +            | PD        | 3        | a    |
| 2015             | 4295      | Produce                        | <i>E. coli</i> O157:H7 Ad582  | 1,2                      | -                          | 0,309  | +      | +            | +            | PD        | 3        | a    |
| 2015             | 3991      | Caesar salad                   | <i>E. coli</i> O157:H7 Ad577  | 2,6                      | -                          | 2,854  | +      | +            | +            | PD        | 3        | b    |
| 2015             | 3992      | Deli salad (ham, egg, cheese)  | <i>E. coli</i> O157:H7 Ad578  | 2,4                      | -                          | 2,780  | +      | +            | +            | PD        | 3        | b    |
| 2015             | 10        | Coleslaw                       | <i>E. coli</i> O157:H7 Ad571  | 4,8                      | -                          | 2,759  | +      | +            | +            | PD        | 3        | b    |
| 2015             | 11        | Ready to eat celery            | <i>E. coli</i> O157:H7 Ad571  | 4,8                      | -                          | 2,44   | +      | +            | +            | PD        | 3        | b    |
| 2015             | 3         | Sprouts                        | <i>E. coli</i> O157:H7 Ad572  | 4,2                      | -                          | 0,367  | +      | +            | +            | PD        | 3        | c    |
| 2015             | 290       | Parsley                        | <i>E. coli</i> O157:H7 Ad581  | 1,8                      | -                          | 2,623  | +      | +            | +            | PD        | 3        | c    |
| 2015             | 362       | Wipe (sprout industry)         | <i>E. coli</i> O157:H7 Ad574  | 0,6                      | -                          | 2,358  | +      | +            | +            | PD        | 4        | a    |
| 2015             | 1256      | Wipe (meat industry)           | <i>E. coli</i> O157:H7 Ad552  | 2,2                      | -                          | 2,597  | +      | +            | +            | PD        | 4        | a    |
| 2015             | 1258      | Wipe (meat industry)           | <i>E. coli</i> O157:H7 Ad553  | 3,4                      | -                          | 2,526  | +      | +            | +            | PD        | 4        | a    |
| 2015             | 1326      | Wipe (meat industry)           | <i>E. coli</i> O157:H7 Ad685  | 1,8                      | -                          | 2,827  | +      | +            | +            | PD        | 4        | a    |
| 2015             | 1327      | Wipe (meat industry)           | <i>E. coli</i> O157:H7 Ad554  | 3,6                      | -                          | 2,379  | +      | +            | +            | PD        | 4        | a    |
| 2015             | 353       | Dusts (dairy industry)         | <i>E. coli</i> O157:H7 Ad1745 | 2,6                      | -                          | 2,693  | +      | +            | +            | PD        | 4        | c    |
| 2015             | 355       | Dusts (sprout industry)        | <i>E. coli</i> O157:H7 Ad577  | 1,2                      | -                          | 2,674  | +      | +            | +            | PD        | 4        | c    |
| 2022             | 603       | Hot meal: curry and rice       | <i>E. coli</i> O157:H7 LS3    | 2,8                      | -                          | 0,564  | +      | +            | +            | PD        | 5        | a    |
| 2022             | 607       | Hot meal: bacon pasta cream    | <i>E. coli</i> O157:H7 769    | 2,8                      | -                          | 0,412  | +      | +            | +            | PD        | 5        | a    |
| 2022             | 811       | Hot meal: Chili Con Carne      | <i>E. coli</i> O157:H7 A425TK | 2,2                      | -                          | 0,764/   | +      | +            | +            | PD        | 5        | a    |
| 2022             | 1029      | RTRH: leek pies                | <i>E. coli</i> O157:H7 Ad3118 | 4,4                      | -                          | 0,694  | +      | +            | +            | PD        | 5        | b    |
| 2022             | 1421      | RTE: sandwich (ham and butter) | <i>E. coli</i> O157:H7 Ad933  | 1,4                      | -                          | 0,492  | +      | +            | +            | PD        | 5        | b    |
| 2022             | 615       | Cooked beef meat               | <i>E. coli</i> O157:H7 769    | 2,8                      | -                          | 0,667  | +      | +            | +            | PD        | 5        | c    |
| 2022             | 1039      | Cooked pork meat               | <i>E. coli</i> O157:H7 Ad976  | 3,2                      | -                          | 1,330  | +      | +            | +            | PD        | 5        | c    |
| 2022             | 1132      | Cooked beef meat               | <i>E. coli</i> O157:H7 AR15   | 2,4                      | -                          | 1,433  | +      | +            | +            | PD        | 5        | c    |
| 2022             | 1133      | Cooked beef meat               | <i>E. coli</i> O157:H7 B177   | 5,2                      | -                          | 0,755  | +      | +            | +            | PD        | 5        | c    |
| 2022             | 1136      | Cooked chicken meat            | <i>E. coli</i> O157:H7 AR15   | 2,4                      | -                          | 0,861  | +      | +            | +            | PD        | 5        | c    |
| 2022             | 620       | Pasteurized ewe milk           | <i>E. coli</i> O157:H7 Ad2676 | 1,4                      | -                          | 0,539  | +      | +            | +            | PD        | 6        | a    |
| 2022             | 622       | Pasteurized cow milk           | <i>E. coli</i> O157:H7 Ad3101 | 1,8                      | -                          | 1,418  | +      | +            | +            | PD        | 6        | a    |
| 2022             | 858       | Pasteurized cow milk           | <i>E. coli</i> O157:H7 Ad3038 | 1,4                      | -                          | 1,294  | +      | +            | +            | PD        | 6        | a    |

| Year of analysis | Sample N° | Product                      | Artificial contaminations     |                          | Reference method ISO 16654 | Alternative method: Solus <i>E. coli</i> O157 (including <i>E. coli</i> O157:H7) |        |              |              |           | Category | Type |
|------------------|-----------|------------------------------|-------------------------------|--------------------------|----------------------------|--|--------|--------------|--------------|-----------|----------|------|
|                  |           |                              | Strain                        | Inoculation level/sample |                            | O.D.   | Result | Confirmation | Final result | Agreement |          |      |
| 2022             | 859       | Pasteurized cow milk         | <i>E. coli</i> O157:H7 Ad2846 | 1,6                      | -                          | 0,439  | +      | +            | +            | PD        | 6        | a    |
| 2022             | 1104      | Pasteurized cow milk         | <i>E. coli</i> O157:H7 Ad2676 | 3,8                      | -                          | 1,217  | +      | +            | +            | PD        | 6        | a    |
| 2022             | 827       | Pasteurized cow milk cheese  | <i>E. coli</i> O157:H7 Ad2843 | 3,0                      | -                          | 0,907  | +      | +            | +            | PD        | 6        | b    |
| 2022             | 1114      | Pasteurized goat milk cheese | <i>E. coli</i> O157:H7 Ad2838 | 2,8                      | -                          | 0,665  | +      | +            | +            | PD        | 6        | b    |

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**

| Category              |  | Type  | N+         | ND        | PPND     | PD        | (ND+PPND)<br>-PD | AL       |
|-----------------------|--|---|------------|-----------|----------|-----------|------------------|----------|
| 1                     | Raw beef and pork meat (seasoned or not) | a Chilled and frozen minced beef and pork                                 | 17         | 4         | 0        | 6         |                  |          |
|                       |  | b Minced meat preparations (seasoned)                                     | 15         | 1         | 0        | 3         |                  |          |
|                       |  | c Chilled and frozen beef trim and pork                                   | 15         | 3         | 0        | 4         |                  |          |
|                       |  | Total   | 47         | 8         | 0        | 13        |                  |          |
| 2                     | Raw milk and dairy products              | a Raw milk  | 10         | 0         | 0        | 6         |                  |          |
|                       |  | b Raw acidified or fermented milk   | 13         | 4         | 0        | 5         |                  |          |
|                       |  | c Raw milk cheeses  | 8          | 2         | 0        | 1         |                  |          |
|                       |  | Total   | 31         | 6         | 0        | 12        |                  |          |
| 3                     | Vegetables                               | a Produces and leafy greens   | 7          | 1         | 0        | 3         |                  |          |
|                       |  | b Processed vegetables  | 13         | 4         | 0        | 4         |                  |          |
|                       |  | c sprouts and aromatic herbs  | 10         | 5         | 0        | 2         |                  |          |
|                       |  | Total   | 30         | 10        | 0        | 9         |                  |          |
| 4                     | Environmental Samples                    | a Sponges, swabs,   | 9          | 1         | 0        | 5         |                  |          |
|                       |  | b Process water   | 10         | 3         | 0        | 0         |                  |          |
|                       |  | c Dusts, residues, siphons  | 11         | 2         | 0        | 2         |                  |          |
|                       |  | Total   | 30         | 6         | 0        | 7         |                  |          |
| 5                     | Composite foods and cooked deli meats    | a Composite processed foods (cooked): hot meals (lasagne, curry and rice) | 11         | 2         | 0        | 3         |                  |          |
|                       |  | b Ready to eat and reheat foods: sandwich, quiche, pie, sausage rolls     | 10         | 3         | 0        | 2         |                  |          |
|                       |  | c Cooked deli meats: sliced beef, pork, chicken                           | 11         | 2         | 0        | 5         |                  |          |
|                       |  | Total   | 32         | 7         | 0        | 10        |                  |          |
| 6                     | Pasteurized milk and dairy products      | a Pasteurized milk  | 14         | 1         | 0        | 5         |                  |          |
|                       |  | b Pasteurized milk cheese   | 17         | 6         | 0        | 2         |                  |          |
|                       |  | Total   | 31         | 7         | 0        | 7         |                  |          |
| <b>All categories</b> |  |   | <b>201</b> | <b>44</b> | <b>0</b> | <b>58</b> | <b>-14</b>       | <b>6</b> |

\* PPNA not included

\*\* PPND not included

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

### 3.1.7 Enrichment broth storage at $5 \pm 3$ °C for 72 h

Combining all the categories, 207 tests were performed after storage.

For the extension study performed in 2022, one change was observed for sample 819 which gave negative ELISA tests after incubation but confirmed positive using the IMS

protocol. This sample gave a positive ELISA test after 72h storage (O.D.= 0.274) (See Table 9).

**Table 9 - Enrichment broth storage**

| Year of analysis | Sample n° | Product                          | Agreement before storage (mTSB) | Agreement after storage (mTSB) | Category | Type |
|------------------|-----------|----------------------------------|---------------------------------|--------------------------------|----------|------|
| 2015             | 4297      | Fermented cream                  | ND                              | PA                             | 2        | b    |
| 2022             | 819       | RTE: pasta salad<br>chicken eggs | ND                              | PA                             | 5        | b    |

The analyses of discordant results become (See Table 10).

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

| Category              | Type                                     | N+  | ND         | PPND      | PD       | (ND+PPND)-PD | AL         |          |
|-----------------------|--|---|------------|-----------|----------|--------------|------------|----------|
| 1                     | Raw beef and pork meat (seasoned or not) | a Chilled and frozen minced beef and pork                                 | 17         | 4         | 0        | 6            |            |          |
|                       |  | b Minced meat preparations (seasoned)                                     | 15         | 1         | 0        | 3            |            |          |
|                       |  | c Chilled and frozen beef trim and pork                                   | 15         | 3         | 0        | 4            |            |          |
|                       |  | Total   | 47         | 8         | 0        | 13           | -5         | 3        |
| 2                     | Raw milk and dairy products              | a Raw milk  | 10         | 0         | 0        | 6            |            |          |
|                       |  | b Raw acidified or fermented milk   | 13         | 3         | 0        | 5            |            |          |
|                       |  | c Raw milk cheeses  | 8          | 2         | 0        | 1            |            |          |
|                       |  | Total   | 31         | 5         | 0        | 12           | -7         | 3        |
| 3                     | Vegetables                               | a Produces and leafy greens   | 7          | 1         | 0        | 3            |            |          |
|                       |  | b Processed vegetables  | 13         | 4         | 0        | 4            |            |          |
|                       |  | c sprouts and aromatic herbs  | 10         | 5         | 0        | 2            |            |          |
|                       |  | Total   | 30         | 10        | 0        | 9            | 1          | 3        |
| 4                     | Environmental samples                    | a Sponges, swabs,   | 9          | 1         | 0        | 5            |            |          |
|                       |  | b Process water   | 10         | 3         | 0        | 0            |            |          |
|                       |  | c Dusts, residues, siphons  | 11         | 2         | 0        | 2            |            |          |
|                       |  | Total   | 30         | 6         | 0        | 7            | -1         | 3        |
| 5                     | Composite foods and cooked deli meats    | a Composite processed foods (cooked): hot meals (lasagne, curry and rice) | 11         | 2         | 0        | 3            |            |          |
|                       |  | b Ready to eat and reheat foods: sandwich, quiche, pie, sausage rolls     | 10         | 2         | 0        | 2            |            |          |
|                       |  | c Cooked deli meats: sliced beef, pork, chicken                           | 11         | 2         | 0        | 5            |            |          |
|                       |  | Total   | 32         | 6         | 0        | 10           | -4         | 3        |
| 6                     | Pasteurized milk and dairy products      | a Pasteurized milk  | 14         | 1         | 0        | 5            |            |          |
|                       |  | b Pasteurized milk cheese   | 17         | 6         | 0        | 2            |            |          |
|                       |  | Total   | 31         | 7         | 0        | 7            | 0          | 3        |
| <b>All categories</b> |  |   | <b>201</b> | <b>42</b> | <b>0</b> | <b>58</b>    | <b>-16</b> | <b>6</b> |

\* PPNA not included

\*\* PPND not included

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

### 3.1.8 Confirmation

Combining all the categories, 159 positive ELISA tests were observed. For 2 of them (samples n° 4177 and 4182), it was impossible to recover the *Escherichia coli* O157 strains even by using an IMS step and a re-growth step in BHI broth. Note that for these samples, the observed ODs for the first test were very low (0.240 and 0.211). ELISA replicates performed on these 2 samples gave negative results.

A summary of the differences observed between streaking onto CT-SMAC and CHROMagar plates is given in Table 11.

**Table 11 - Differences observed between streaking onto CT-SMAC and CHROMagar™ O157**

|                               | Number of samples confirmed depending on the selective agar plate tested |                |
|-------------------------------|--|----------------|
|                               | CT-SMAC  | CHROMagar O157 |
| Positive ELISA test           | 159  |                |
| <b>Confirmation protocols</b> |  |                |
| Direct streaking              | 141  | 124            |
| IMS step                      | 14   | 11             |
| Regrowth after IMS step       | 1  | 1              |
| <b>Total confirmed</b>        | <b>156</b>   | <b>136</b>     |
| No typical colony             | 3  | 23             |
| <b>Total positive samples</b> | <b>157</b>   |                |

Based on these data, the streaking onto CT-SMAC allows to confirm more samples. For 14 samples, an IMS step was necessary to confirm the presence of *E. coli* O157 strain in the enriched sample.

## 3.2 Relative level of detection

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

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

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

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

### 3.2.1 Experimental design

Six (matrix/strain) pairs were analysed by the reference method and by the alternative method (See Table 12).

The following protocol was applied:

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

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

**Table 12 - Defined (matrix/strain) pairs for the RLOD determination**

| Category |                                       | Matrix             | Inoculated strain                      |                      | Storage conditions prior to analysis |
|----------|---------------------------------------|--------------------|--|----------------------|--------------------------------------|
|          |                                       |                    | Reference                              | Origin               |                                      |
| 1        | Raw beef meat                         | Ground beef        | <i>Escherichia coli</i> O157:H7 Ad486  | Ground beef          | 48 h at 3°C ± 2°C                    |
| 2        | Raw milk and dairy products           | Raw milk           | <i>Escherichia coli</i> O157:H7 Ad1745 | Dairy product        | 48 h at 3°C ± 2°C                    |
| 3        | Vegetables                            | Fresh produces     | <i>Escherichia coli</i> O157:H7 Ad556  | Environmental sample | 48 h at 3°C ± 2°C                    |
| 4        | Environmental samples                 | Process water      | <i>Escherichia coli</i> O157:H7 Ad552  | Environmental sample | 48 h at 3°C ± 2°C                    |
| 5        | Composite foods and cooked deli meats | Lasagne            | <i>Escherichia coli</i> O157:H7 Ad485  | Ground beef          | 48-72 h at 3°C ± 2°C                 |
| 6        | Pasteurized milk and cheese products  | Pasteurized cheese | <i>Escherichia coli</i> O157:H7 Ad3101 | Cheese               | 48-72 h at 3°C ± 2°C                 |

### 3.2.2 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 13.

**Table 13 – Presentation of RLOD before and after confirmation of the alternative method results for all categories**

| Category        | Matrix/strain pair  | RLOD         | RLODL        | RLODU        | b=ln(RLOD)   | sd(b)        | z-Test statistic | p-value      | AL  |
|-----------------|---|--------------|--------------|--------------|--------------|--------------|------------------|--------------|-----|
| 1               | Ground beef / <i>Escherichia coli</i> O157:H7 Ad486         | 1,526        | 0,617        | 3,775        | 0,423        | 0,453        | 0,933            | 0,351        | 2,5 |
| 2               | Raw milk / <i>Escherichia coli</i> O157:H7 Ad1745           | 1,738        | 0,771        | 3,915        | 0,553        | 0,406        | 1,361            | 0,174        |     |
| 3               | Spinach / <i>Escherichia coli</i> O157:H7 Ad556             | 1,530        | 0,695        | 3,369        | 0,425        | 0,395        | 1,078            | 0,281        |     |
| 4               | Process water / <i>Escherichia coli</i> O157:H7 Ad556       | 0,668        | 0,237        | 1,883        | -0,403       | 0,518        | 0,778            | 1,564        |     |
| 5               | Pasta (lasagnes) / <i>Escherichia coli</i> O157:H7 Ad485    | 1,186        | 0,417        | 3,371        | 0,170        | 0,522        | 0,326            | 0,744        |     |
| 6               | Pasteurized cheese / <i>Escherichia coli</i> O157:H7 Ad3101 | 1,322        | 0,549        | 3,186        | 0,279        | 0,440        | 0,635            | 0,526        |     |
| <b>Combined</b> |   | <b>1,279</b> | <b>0,907</b> | <b>1,804</b> | <b>0,246</b> | <b>0,172</b> | <b>1,433</b>     | <b>0,152</b> |     |

The LOD<sub>50%</sub> calculations according to Wilrich & Wilrich POD-LOD calculation program - version 10, 2021-05-04 test are given in Table 14.

**Table 14 - LOD<sub>50%</sub> results for all categories**

| Category                | Matrix/strain pair  | Level of detection at 50% (CFU / sample size) |                      |
|-------------------------|---|---|----------------------|
|                         |   | Reference method                              | Alternative method   |
| 1                       | Ground beef / <i>Escherichia coli</i> O157:H7 Ad486         | 0,7 [0,4-1,2]                                 | 1,0 [0,5-2,0]        |
| 2                       | Raw milk / <i>Escherichia coli</i> O157:H7 Ad1745           | 1,0 [0,6-1,8]                                 | 1,7 [1,0-3,1]        |
| 3                       | Fresh produces / <i>Escherichia coli</i> O157:H7 Ad556      | 0,7 [0,4-1,2]                                 | 1,0 [0,6-1,8]        |
| 4                       | Process water / <i>Escherichia coli</i> O157:H7 Ad552       | 2,0 [1,0-4,0]                                 | 1,9 [0,9-3,8]        |
| 5                       | Pasta (lasagnes) / <i>Escherichia coli</i> O157:H7 Ad485    | 1,2 [0,6-2,2]                                 | 1,3 [0,7-2,6]        |
| 6                       | Pasteurized cheese / <i>Escherichia coli</i> O157:H7 Ad3101 | 1,4 [0,8-2,4]                                 | 1,8 [1,0-3,2]        |
| <b>Combined results</b> |   | <b>1,1 [0,8-1,4]</b>                          | <b>1,4 [1,1-1,9]</b> |

### 3.2.3 Conclusion

The RLOD values (using the confirmed alternative method results) meet the acceptability limit of 2.5 for unpaired studies, for all matrix/strain pairs tested.

The LOD<sub>50</sub> varies from 0.7 to 2.0 CFU/test portion for the reference method and from 1.0 to 1.9 CFU/test portion for the alternative method.

## 3.3 Inclusivity / exclusivity

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

### 3.3.1.1 Test protocols

#### > Inclusivity

*E. coli* O157 strains cultures were performed in BHI medium at 37°C. Dilutions were done in order to inoculate 10 cells/225 ml of mTSB + novobiocin. The alternative protocol was then performed after an enrichment time of 16 hours at 41.5°C.

#### > Exclusivity

Negative strains cultures were performed in BHI at 37°C. Dilutions were realised in order to inoculate 10<sup>5</sup> cells/ml of BPW. The alternative protocol was then performed after an enrichment time of 20 hours at 37°C.

### 3.3.1.2 Results

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

#### > Inclusivity

The 50 tested strains gave positive Solus ELISA tests and were confirmed by the latex tests after recovery on both CT-SMAC and CHROMagar O157.

## > Exclusivity

Among the 30 tested strains, 2 gave a positive Solus ELISA test as expected for *Salmonella* strains from the N group: *Salmonella* Landau Ad499 and *Salmonella* Urbana Ad501.

*Salmonella* Landau grown on CT-SMAC giving atypical colonies (sorbitol +) and showing negative latex tests.

*Salmonella* Urbana did not grow on the 2 tested selective agar plates (CT-SMAC and CHROMagar O157).

These two strains were tested using the inclusivity protocol, corresponding to the complete alternative protocol including a selective enrichment step; *Salmonella* Landau gave a positive ELISA result while *Salmonella* Urbana did not grow in the mTSB broth. Of course, the *Salmonella* Landau strain was once again not confirmed as *Escherichia coli* O157:H7 by the confirmation procedure.

Indeed, despite some positive ELISA tests could be observed as expected with some *Salmonella* strains from the N group, the final results are negative after running the confirmation procedure.

### 3.4 Practicability

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

|   |   |                         |                           |
|---|---|-------------------------|---------------------------|
| <b>Storage conditions, shelf-life and modalities of utilisation after first use</b> | The storage temperature is: 2-8°C.  |                         |                           |
|   | The shelf-life is given on the package.<br>All the reagents must be stored at the temperature mentioned on the package.<br>All the reagents are ready to use, except the wash buffer. |                         |                           |
| <b>Time to result</b>   | Steps   | <b>Reference method</b> | <b>Alternative method</b> |
|   | <b>Negative samples</b>   |                         |                           |
|   | Sampling  | Day 0                   | Day 0                     |
|   | <i>E. coli</i> O157 ELISA test  | /                       | Day 1                     |
|   | IMS 6 h   | Day 0                   | /                         |
|   | IMS 24 if necessary   | Day 1                   | /                         |
|   | Selective plate reading   | Day 1-Day 2             | /                         |
|   | <b>Total for negative sample analysis</b>   | <b>Day 2</b>            | <b>Day 1</b>              |
|   | <b>Presumptive positive or positive results</b>   |                         |                           |
|   | Direct streaking onto CT SMAC / chromogenic medium  | /                       | Day 1                     |
|   | Selective plate reading   | Day 1 – Day 2           | Day 2                     |
|   | Confirmatory test   | Day 3                   | Day 3                     |
|   | <b>Total for positive samples</b>   | <b>Day 3</b>            | <b>Day 3</b>              |
| <b>Common step with the reference method</b>  | There is no common step   |                         |                           |

Negative results are obtained in one day using the alternative method while two days are required for the reference method.

Positive results are obtained in three days for both methods.

## 4 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.*

### 4.1 Study organisation

The study was performed in July 2015 and involved 12 laboratories. The matrix used was ground beef (15 % fat content). The strain inoculated was the non-pathogen *Escherichia coli* O157:017 ATCC 43888.

Samples were inoculated on Monday 6<sup>th</sup> July 2015; as described below:

- 24 blind coded samples for *Escherichia coli* O157 analysis by Solus *E. coli* O157 ELISA Screening Assay method (blue sticker),
- 24 blind coded samples for *Escherichia coli* O157 analysis by the EN ISO 16654 reference method (red sticker),
- 1 sample for aerobic mesophilic flora enumeration by ISO 4833-1 method,
- 1 water bottle labelled “Temperature Control” with a temperature probe.

The targeted inoculation levels were the following:

- Level 0: 0 CFU/ 25 g,
- Level 1: 3 CFU/25 g,
- Level 2: 10 CFU/25 g.

As this is an unpaired data study, each laboratory received 48 samples of 25 g, i.e. 8 samples per inoculation level and method. Furthermore, one non-inoculated sample was added to the package for total viable count microflora enumeration by the ISO 4833-1 method.

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

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

Samples were shipped in 24 h to 48 h to the collaborative laboratories. The temperature conditions had to stay lower or equal to 8.4°C during transport, and between 0°C – 8.4°C in the labs.

Collaborators and ADRIA Développement carried out the analyses with the alternative and reference methods.

## 4.2 Experimental parameters controls

### 4.2.1 Strain stability and background microflora stability

Strain stability was checked by inoculating the matrix at 100 CFU/g and 5 CFU/g. Enumerations were performed for the high contamination level and detection analyses were performed for the low contamination level after 24 h and 48 h storage at  $5 \pm 3^\circ\text{C}$ . *Triplicates* were analysed. The aerobic mesophilic flora was also enumerated; the results are given in Table 15.

**Table 15 - Sample stability**

| Day   | Reference method (detection) |          |          | CFU/g    |          |          | Aerobic mesophilic flora (CFU/g) |
|-------|------------------------------|----------|----------|----------|----------|----------|----------------------------------|
|       | Sample 1                     | Sample 2 | Sample 3 | Sample 1 | Sample 2 | Sample 3 |                                  |
| Day 0 | +                            | +        | -        | 190      | 70       | 140      | $6.0 \cdot 10^2$                 |
| Day 1 | +                            | -        | -        | 90       | 60       | 130      | $6.0 \cdot 10^2$                 |
| Day 2 | +                            | +        | +        | 90       | 60       | 20       | $9.0 \cdot 10^3$                 |

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

### 4.2.2 Contamination levels

The contamination levels and the sample codification were the following (see Table 16).

**Table 16 - 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    | 5 - 9 - 10 - 14 - 18 - 20 - 23 - 24 | /                                 | /                          | /                       | /                        |
| Low level  | 1 - 4 - 7 - 11 - 12 - 16 - 19 - 21  | 2                                 | 2.9                        | 2.4                     | 3.4                      |
| High level | 2 - 3 - 6 - 8 - 13 - 15 - 17 - 22   | 10                                | 12.1                       | 10.1                    | 14.4                     |

### 4.2.3 Logistic conditions

Temperature conditions are given in Table 17.

**Table 17 - Sample temperatures at receipt**

| Laboratories | Temperature measured by the probe (°C) | Temperature measured at receipt (°C) | Receipt date and time |
|--------------|--|--------------------------------------|-----------------------|
| A            | 3.8                                    | 7.1                                  | 07/07/2015 12h00      |
| B            | 3.5                                    | 6.9                                  | 07/07/2015 16h10      |
| C            | 2.5                                    | 5.1                                  | 07/07/2015 11h30      |
| D            | <i>Not received</i>                    | 3.8                                  | 07/07/2015 16h30      |
| E            | <i>Not received</i>                    | <b>9.6</b>                           | 07/07/2015 17h30      |
| F            | 3.0                                    | 6.2                                  | 07/07/2015 11h00      |
| G            | 3.0                                    | <b>8.7</b>                           | 07/07/2015 16h00      |
| H            | 3.5                                    | 7.5                                  | 07/07/2015 16h00      |
| J            | <i>Not received</i>                    | 6.7                                  | 07/07/2015 11h20      |
| K            | 4.0                                    | 7.0                                  | 07/07/2015 10h45      |
| L            | 5.5                                    | 7.3                                  | 07/07/2015 10h05      |
| M            | 5.0                                    | 4.4                                  | 07/07/2015 17h00      |

No major problem was encountered during shipment.

For 3 Labs (D, E and J), the probes were not received. For Lab E, the temperature measured at receipt was 9.6°C; it can reasonably be considered that this Lab received the samples at a temperature below 8.4°C, as it is the case for all the other Labs and based on the temperature in Northern Europe during the week of the ring trial.

The Lab G measured a temperature above 8.4°C at receipt, but the packaging probe indicated a temperature of 3.0°C.

#### 4.2.4 Results analysis

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

##### 4.2.4.1 Expert laboratory results

The results obtained by the expert laboratory are given in Table 18.

**Table 18 – Results obtained by the expert Lab.**

| Level | Reference method | Alternative method |
|-------|------------------|--------------------|
| L0    | 0/8              | 0/8                |
| L1    | 7/8              | 6/8                |
| L2    | 8/8              | 8/8                |

#### 4.2.4.2 Results observed by the collaborative laboratories

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

Depending on the Lab results, the enumeration levels varied from  $1.9 \cdot 10^2$  to  $2.3 \cdot 10^5$  CFU/g. One Lab did not provide the result (Lab D).

##### > *Escherichia coli O157:H7 detection*

12 collaborators participated to the study. The results obtained are provided in Table 19 (reference method) and Table 20 (alternative method).

**Table 19 - Positive results by the reference method (ALL the collaborators)**

| Collaborator | Contamination level       |                           |                           |
|--------------|---------------------------|---------------------------|---------------------------|
|              | L0                        | L1                        | L2                        |
| <b>A</b>     | 2                         | 7                         | 8                         |
| <b>B</b>     | 0                         | 6                         | 8                         |
| <b>C</b>     | 3                         | 8                         | 8                         |
| <b>D</b>     | 0                         | 7                         | 8                         |
| <b>E</b>     | 0                         | 7                         | 8                         |
| <b>F</b>     | 0                         | 7                         | 8                         |
| <b>G</b>     | 1                         | 7                         | 8                         |
| <b>H</b>     | 0                         | 7                         | 8                         |
| <b>J</b>     | 8                         | 8                         | 8                         |
| <b>K</b>     | 0                         | 7                         | 8                         |
| <b>L</b>     | 4                         | 6                         | 8                         |
| <b>M</b>     | 0                         | 6                         | 8                         |
| <b>Total</b> | <b>P<sub>0</sub> = 18</b> | <b>P<sub>1</sub> = 83</b> | <b>P<sub>2</sub> = 96</b> |

**Table 20 - Positive results (before and after confirmation) by the alternative method (ALL the collaborators)**

| Collaborator | Contamination level      |                          |                           |                           |                           |                            |                           |                           |                            |
|--------------|--------------------------|--------------------------|---------------------------|---------------------------|---------------------------|----------------------------|---------------------------|---------------------------|----------------------------|
|              | L0                       |                          |                           | L1                        |                           |                            | L2                        |                           |                            |
|              | ELISA result             | Confirmation result      | Final result              | ELISA result              | Confirmation result       | Final result               | ELISA result              | Confirmation result       | Final result               |
| <b>A</b>     | 0                        | 0                        | 0                         | 7                         | 7                         | 7                          | 8                         | 8                         | 8                          |
| <b>B</b>     | 0                        | 0                        | 0                         | 8                         | 8                         | 8                          | 8                         | 8                         | 8                          |
| <b>C</b>     | 1                        | 0                        | 0                         | 6                         | 6                         | 6                          | 8                         | 8                         | 8                          |
| <b>D</b>     | 0                        | 0                        | 0                         | 8                         | 8                         | 8                          | 8                         | 8                         | 8                          |
| <b>E</b>     | 0                        | 0                        | 0                         | 8                         | 8                         | 8                          | 8                         | 8                         | 8                          |
| <b>F</b>     | 1                        | 0                        | 0                         | 7                         | 7                         | 7                          | 8                         | 8                         | 8                          |
| <b>G</b>     | 0                        | 0                        | 0                         | 6                         | 6                         | 6                          | 8                         | 8                         | 8                          |
| <b>H</b>     | 1                        | 0                        | 0                         | 6                         | 6                         | 6                          | 8                         | 8                         | 8                          |
| <b>J</b>     | 2                        | 0                        | 0                         | 7                         | 7                         | 7                          | 8                         | 8                         | 8                          |
| <b>K</b>     | 0                        | 0                        | 0                         | 8                         | 8                         | 8                          | 8                         | 8                         | 8                          |
| <b>L</b>     | 2                        | 0                        | 0                         | 4                         | 4                         | 4                          | 8                         | 8                         | 8                          |
| <b>M</b>     | 0                        | 0                        | 0                         | 7                         | 7                         | 7                          | 8                         | 8                         | 8                          |
| <b>Total</b> | <b>P<sub>0</sub> = 7</b> | <b>C<sub>0</sub> = 0</b> | <b>CP<sub>0</sub> = 0</b> | <b>P<sub>1</sub> = 82</b> | <b>C<sub>1</sub> = 82</b> | <b>CP<sub>1</sub> = 82</b> | <b>P<sub>2</sub> = 96</b> | <b>C<sub>2</sub> = 96</b> | <b>CP<sub>2</sub> = 96</b> |

5 Labs found positive results (18) for control samples with the reference method (collaborators A, C, G, J and L).

4 Labs found positive ELISA results (7) for control samples, and all the results were confirmed negative (collaborators C, F, H, J and L).

The results of 2 Labs (J and L), which had the highest number of cross contaminations, were not taken into account for statistical interpretation for the initial validation study. The same rule has been applied for the renewal studies; this is allowed by the AFNOR technical rules (Rev6).

#### 4.2.4.3 Results of the collaborators retained for interpretation

The results obtained with the 10 labs kept for interpretation are presented in Table 21 (reference method) and Table 22 (alternative method).

**Table 21 - Positive results by the reference method (Without Labs J and L)**

| Collaborators | Contamination level      |                           |                           |
|---------------|--------------------------|---------------------------|---------------------------|
|               | L0                       | L1                        | L2                        |
| A             | 2                        | 7                         | 8                         |
| B             | 0                        | 6                         | 8                         |
| C             | 3                        | 8                         | 8                         |
| D             | 0                        | 7                         | 8                         |
| E             | 0                        | 7                         | 8                         |
| F             | 0                        | 7                         | 8                         |
| G             | 1                        | 7                         | 8                         |
| H             | 0                        | 7                         | 8                         |
| K             | 0                        | 7                         | 8                         |
| M             | 0                        | 6                         | 8                         |
| <b>TOTAL</b>  | <b>P<sub>0</sub> = 6</b> | <b>P<sub>1</sub> = 69</b> | <b>P<sub>2</sub> = 80</b> |

**Table 22 - Positive results (before and after confirmation)  
by the alternative method (Without Labs J and L)**

| Laboratory   | Contamination level      |                          |                           |                           |                           |                            |                           |                           |                            |
|--------------|--------------------------|--------------------------|---------------------------|---------------------------|---------------------------|----------------------------|---------------------------|---------------------------|----------------------------|
|              | L0                       |                          |                           | L1                        |                           |                            | L2                        |                           |                            |
|              | ELISA result             | Confirmation result      | Final result              | ELISA result              | Confirmation result       | Final result               | ELISA result              | Confirmation result       | Final result               |
| A            | 0                        | 0                        | 0                         | 7                         | 7                         | 7                          | 8                         | 8                         | 8                          |
| B            | 0                        | 0                        | 0                         | 8                         | 8                         | 8                          | 8                         | 8                         | 8                          |
| C            | 1                        | 0                        | 0                         | 6                         | 6                         | 6                          | 8                         | 8                         | 8                          |
| D            | 0                        | 0                        | 0                         | 8                         | 8                         | 8                          | 8                         | 8                         | 8                          |
| E            | 0                        | 0                        | 0                         | 8                         | 8                         | 8                          | 8                         | 8                         | 8                          |
| F            | 1                        | 0                        | 0                         | 7                         | 7                         | 7                          | 8                         | 8                         | 8                          |
| G            | 0                        | 0                        | 0                         | 6                         | 6                         | 6                          | 8                         | 8                         | 8                          |
| H            | 1                        | 0                        | 0                         | 6                         | 6                         | 6                          | 8                         | 8                         | 8                          |
| K            | 0                        | 0                        | 0                         | 8                         | 8                         | 8                          | 8                         | 8                         | 8                          |
| M            | 0                        | 0                        | 0                         | 7                         | 7                         | 7                          | 8                         | 8                         | 8                          |
| <b>Total</b> | <b>P<sub>0</sub> = 3</b> | <b>C<sub>0</sub> = 0</b> | <b>CP<sub>0</sub> = 0</b> | <b>P<sub>1</sub> = 71</b> | <b>C<sub>1</sub> = 71</b> | <b>CP<sub>1</sub> = 71</b> | <b>P<sub>2</sub> = 80</b> | <b>C<sub>2</sub> = 80</b> | <b>CP<sub>2</sub> = 80</b> |

#### 4.2.5 Calculation and interpretation

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

The percentage specificities (SP) of the reference method and of the alternative method, using the data after confirmation, based on the results of level L0 are the following (See Table 23).

**Table 23 - Percentage specificity**

|  |   |        |
|--|---|--------|
| Specificity for the reference method   | $SP_{ref} = \left(1 - \left(\frac{P_0}{N_-}\right)\right) \times 100 \% =$  | 92.5 % |
| Specificity for the alternative method | $SP_{alt} = \left(1 - \left(\frac{CP_0}{N_-}\right)\right) \times 100 \% =$ | 100 %  |

N: number of all LO tests

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

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

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

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

A summary of the results of the collaborators retained for interpretation and obtained with the reference and the alternative methods for Level 1 is provided in Table 24.

**Table 24 - Summary of the obtained results with the reference method and the alternative method for Level 1**

| Level | Response                         | Reference method positive (R+)                         | Reference method negative (R-)                         |
|-------|----------------------------------|--|--|
| 1     | Alternative method positive (A+) | Positive agreement (A+/R+)<br><b>PA = 62</b>           | Positive deviation (R-/A+)<br><b>PD = 9</b>            |
|       | Alternative method negative (A-) | Negative deviation (A-/R+)<br><b>ND = 7 (PPND = 0)</b> | Negative agreement (A-/R-)<br><b>NA = 2 (PPNA = 0)</b> |

Based on the data summarized in Table 24, 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 25).

**Table 25 - Sensitivity, relative trueness and false positive ratio percentages**

|   |  | Level 1 |
|---|--|---------|
| Sensitivity for the alternative method:         | $SE_{alt} = \frac{(PA+PD)}{(PA+PD+ND)} \times 100\% =$ | 91.0 %  |
| Sensitivity for the reference method:           | $SE_{ref} = \frac{(PA+ND)}{(PA+PD+ND)} \times 100\% =$ | 88.5 %  |
| Relative trueness                               | $RT = \frac{(PA+NA)}{N} \times 100\% =$                | 80.0 %  |
| False positive ratio for the alternative method | $FPR = \frac{FP}{NA} \times 100\% =$                   | 0 %     |

#### 4.2.5.3 Interpretation of data

The negative deviations are listed in Table 26 for Level 1 and the positive deviations in Table 27 for Level 1.

**Table 26 - Negative deviations for Level 1**

| Level 1 | Laboratory | Sample | Reference method <sup>♦</sup> | Alternative method: Solus <i>E. coli</i> O157:H7 ELISA screening Assay |        |              |              | Agreement |
|---------|------------|--------|-------------------------------|--|--------|--------------|--------------|-----------|
|         |            |        |                               | ELISA test   |        | Confirmation | Final result |           |
|         |            |        |                               | O.D.   | Result |              |              |           |
| 1       | A          | 21     | +                             | 0,017  | -      | -            | -            | ND        |
|         | C          | 4      | +                             | 0,004  | -      | -            | -            | ND        |
|         |            | 12     | +                             | 0,012  | -      | -            | -            | ND        |
|         | G          | 4      | +                             | 0,013  | -      | -            | -            | ND        |
|         |            | 16     | +                             | 0,019  | -      | -            | -            | ND        |
|         | H          | 11     | +                             | -0,008   | -      | -            | -            | ND        |
|         | M          | 11     | +                             | 0,013  | -      | -            | -            | ND        |

None of the samples in negative deviation was confirmed positive using alternative method indicating that these results were probably linked to the unpaired study design.

**Table 27 - Positive deviations for Level 1**

| Level 1 | Laboratory | Sample | Reference method <sup>†</sup> | Alternative method: Solus <i>E. coli</i> O157:H7 ELISA screening Assay |        |              |              | Agreement |
|---------|------------|--------|-------------------------------|--|--------|--------------|--------------|-----------|
|         |            |        |                               | ELISA test   |        | Confirmation | Final result |           |
|         |            |        |                               | O.D.   | Result |              |              |           |
| 1       | A          | A11    | -                             | 2,917  | +      | +            | +            | PD        |
|         | B          | B7     | -                             | 1,639  | +      | +            | +            | PD        |
|         |            | B21    | -                             | 1,511  | +      | +            | +            | PD        |
|         | D          | D21    | -                             | 2,741  | +      | +            | +            | PD        |
|         | E          | E21    | -                             | 2,788  | +      | +            | +            | PD        |
|         | G          | G11    | -                             | 2,536  | +      | +            | +            | PD        |
|         | K          | K19    | -                             | 0,783  | +      | -<br>IMS:+   | +            | PD        |
|         | M          | M1     | -                             | 3,000  | +      | +            | +            | PD        |
|         |            | M12    | -                             | 3,000  | +      | +            | +            | PD        |

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:

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

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

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

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.

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

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. The calculations are the following, according to the EN ISO 16140-2:2016 (See Table 28).

**Table 28 - Calculations**

|                    | Level 1           |
|--------------------|-------------------|
| $N_x$              | 80                |
| $(\rho^+)_{ref}$   | 0.9               |
| $(\rho^+)_{alt}$   | 0.9               |
| AL = (ND - PD) max | 7.25              |
| ND - PD            | - 2               |
| Conclusion         | ND - PD $\leq$ AL |

The ISO 16140-2 (2016) requirements are fulfilled as the calculated value (ND - PD) meet the AL.

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

The LOD<sub>50%</sub>, the LOD<sub>95%</sub> and the RLOD was calculated using the EN ISO 16140-2:2016 Excel spreadsheet available at <http://standards.iso.org/iso/16140> - RLOD (clause 5-1-4-2 Calculation and interpretation of RLOD) version 06.07.2015. The results are used only for information (see Table 29).

**Table 29 - LOD<sub>50%</sub>, LOD<sub>95%</sub> and RLOD**

| Method      | LOD 50%        | LOD 95%         | RLOD              |
|-------------|----------------|-----------------|-------------------|
| Reference   | 1.1 [0.8; 1.5] | 4.7 [3.4; 6.6]  | 0.76 [0.51; 1.13] |
| Alternative | 0.8 [0.6; 1.2] | 3.69 [2.5; 5.1] |                   |

The LOD values are similar for both reference and alternative methods. The RLOD is lower than the RLOD calculated during the method comparison study (1,526 for ground beef)

## 5 CONCLUSION

The **method comparison study conclusions** are:

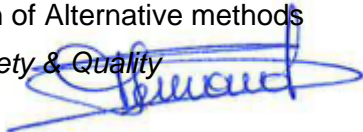
- The method comparison study scheme corresponds to an UNPAIRED STUDY design as the alternative and reference methods have different enrichment procedures.
- In the sensitivity study, six categories were tested: five food categories and the environmental samples. The protocol of the alternative method shows 58 positive deviations (PD) and 44 negative deviations (ND) for all combined categories. The ND - PD meet the acceptability limits (AL) whatever the categories, and as well for the 6 tested categories.
- The Relative Levels of Detection (RLOD) meet the AL fixed at 2.5 for the unpaired data study.
- The inclusivity and exclusivity testing gave the expected results for the 50 target strains and the 30 non-target strains.
- It is possible to store the primary enrichment broth for 72 h at  $5 \pm 3^\circ\text{C}$ .
- The alternative method allows a one-day screening of the negative samples.
- The alternative method fulfils all the EN ISO 16140-2:2016 and AFNOR technical rules (PR revision 7).

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

- The data and interpretations comply with the EN ISO 16140-2:2016 requirements. The Solus E. coli O157 ELISA Screening Assay is considered equivalent to the ISO standard.

Quimper, 04 November 2022

Muriel BERNARD  
 Technical Study Manager  
 Validation of Alternative methods  
 Food Safety & Quality



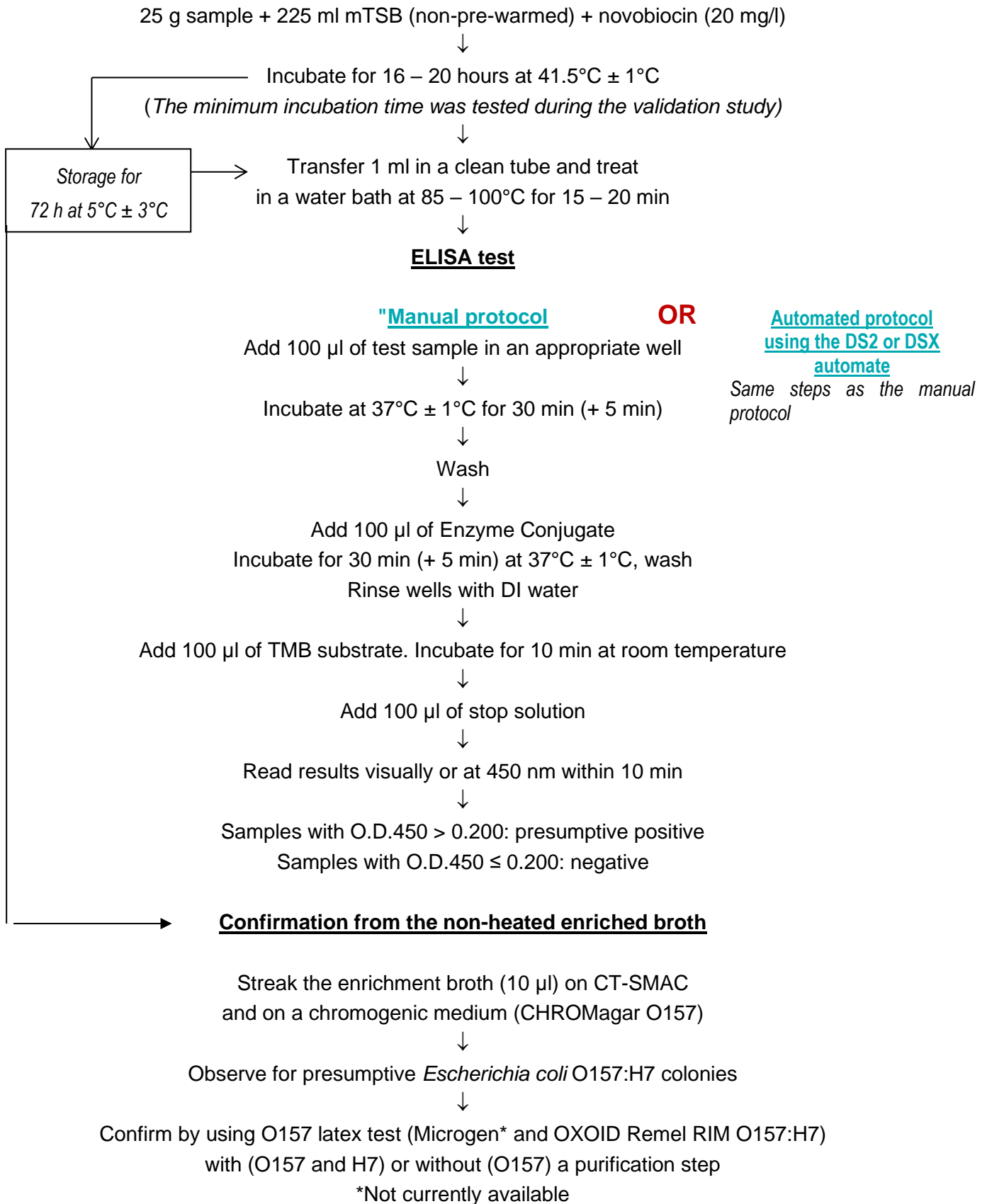
I hereby attest to the validation of the results of the analyses carried out under the COFRAC accreditation.

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

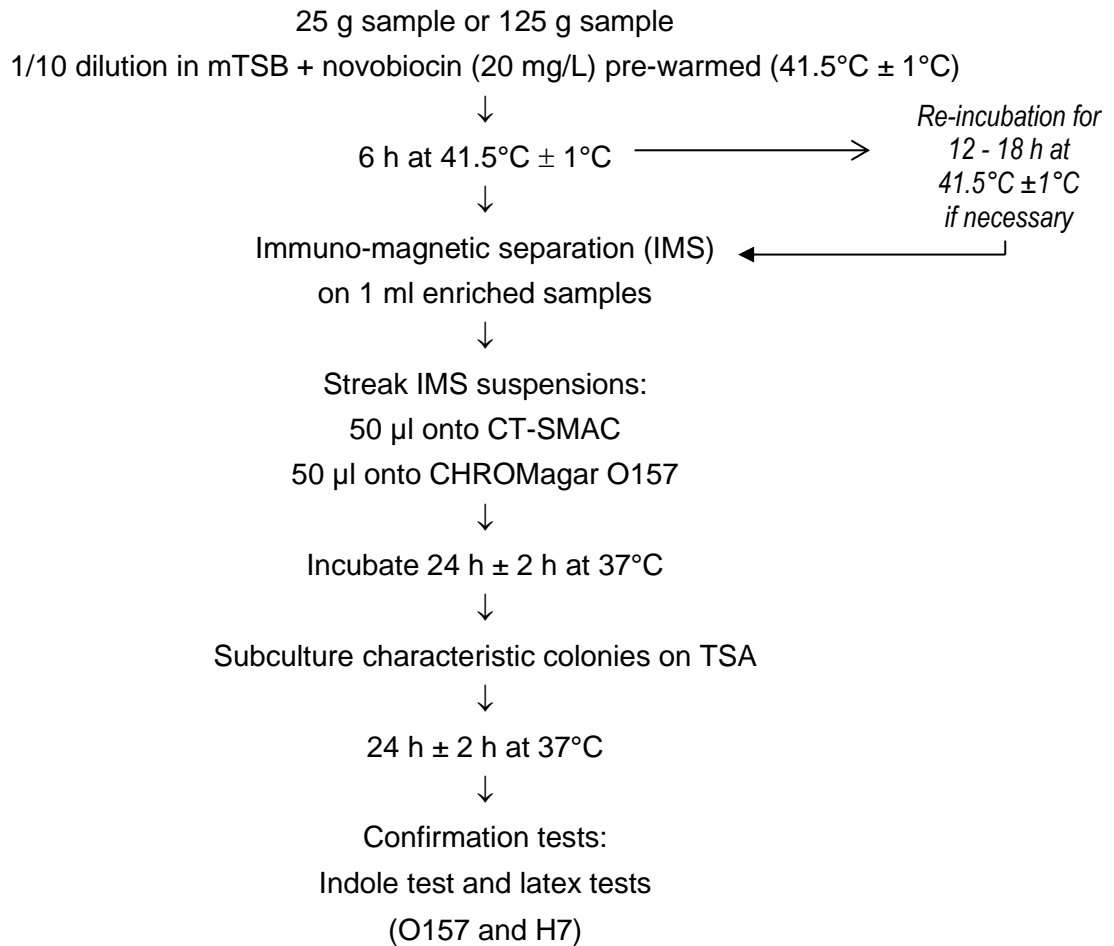


I hereby attest to the validation of the verification of the conformity of the report (opinion and interpretation).

**Appendix 1 – Flow diagram of the alternative method:  
Solus *E. coli* O157 ELISA Screening Assay**



**Appendix 2 - Flow diagram of the reference method:**  
**ISO 16654 (May 2001): Microbiology of food and animal feeding stuffs - Horizontal**  
**method for the detection of *Escherichia coli* O157 -**  
**Amendment 1 (March 2017): annex B: result of inter-laboratory studies**



## Appendix 3 – Artificial contamination of samples

| Year of analysis | Sample N° | Product (French name)                     | Product                                | Artificial contaminations     |              |                       |                    |                       |      | Global result | Category | Type |
|------------------|-----------|---|--|-------------------------------|--------------|-----------------------|--------------------|-----------------------|------|---------------|----------|------|
|                  |           |   |  | Strain                        | Origin       | Injury protocol       | Injury measurement | Inoculation level/25g |      |               |          |      |
|                  |           |   |  |                               |              |                       |                    | Numeration            | Mean |               |          |      |
| 2015             | 3976      | Egréné de bœuf congelé                    | Frozen ground beef                     | <i>E. coli</i> O157:H7 Ad563  | Ground beef  | -20°C / 6 days        | 1,1                | 2-1-3-3-5 (2,8)       |      | +             | 1        | a    |
| 2015             | 3977      | Steak haché 15% MG congelé                | Frozen ground beef 15% fat             | <i>E. coli</i> O157:H7 Ad563  | Ground beef  | -20°C / 6 days        | 1,1                | 2-1-3-3-5 (2,8)       |      | +             | 1        | a    |
| 2015             | 3978      | Steak haché 10% MG congelé                | Frozen ground beef 10% fat             | <i>E. coli</i> O157:H7 Ad563  | Ground beef  | -20°C / 6 days        | 1,1                | 2-1-3-3-5 (2,8)       |      | +             | 1        | a    |
| 2015             | 4164      | Viande hachée pur bœuf 5% MG congelée     | Frozen ground beef 5% fat              | <i>E. coli</i> O157:H7 Ad489  | Ground beef  | Seeding -20°C 1 week  | /                  | 1-0-2-2-1 (1,2)       |      | +             | 1        | a    |
| 2015             | 4165      | Tartare de bœuf congelé                   | Frozen ground beef                     | <i>E. coli</i> O157:H7 Ad489  | Ground beef  | Seeding -20°C 1 week  | /                  | 1-0-2-2-1 (1,2)       |      | +             | 1        | a    |
| 2015             | 4166      | Viande hachée pur bœuf 15% MG congelée    | Frozen ground beef 15% fat             | <i>E. coli</i> O157:H7 Ad559  | Ground beef  | Seeding -20°C 1 week  | /                  | 0-0-1-2-2 (1,0)       |      | +             | 1        | a    |
| 2015             | 4276      | Steak haché 10% MG congelé                | Frozen ground beef 10% fat             | <i>E. coli</i> O157:H7 Ad485  | Ground beef  | Seeding -20°C 1 week  | /                  | 0-2-4-0-0 (1,2)       |      | +             | 1        | a    |
| 2015             | 4277      | Steak haché 15% MG congelé                | Frozen ground beef 15% fat             | <i>E. coli</i> O157:H7 Ad485  | Ground beef  | Seeding -20°C 1 week  | /                  | 0-2-4-0-0 (1,2)       |      | -             | 1        | a    |
| 2015             | 4278      | Steak haché 15% MG congelé                | Frozen ground beef 15% fat             | <i>E. coli</i> O157:H7 Ad486  | Ground beef  | Seeding -20°C 1 week  | /                  | 0-2-1-3-0 (1,2)       |      | -             | 1        | a    |
| 2015             | 119       | Steak haché 20% MG congelé                | Frozen ground beef 20% fat             | <i>E. coli</i> O157:H7 Ad975  | Beef meat    | Seeding -20°C 1 week  | /                  | 2-3-0-2-0 (1,4)       |      | -             | 1        | a    |
| 2015             | 120       | Egréné de bœuf congelé                    | Frozen ground beef                     | <i>E. coli</i> O157:H7 Ad1071 | Ground beef  | Seeding -20°C 1 week  | /                  | 1-2-0-3-1 (1,4)       |      | +             | 1        | a    |
| 2015             | 121       | Steak haché façon bouchère 15% MG congelé | Frozen ground beef 15% fat             | <i>E. coli</i> O157:H7 Ad585  | Ground beef  | Seeding -20°C 1 week  | /                  | 2-0-1-0-2 (1,0)       |      | +             | 1        | a    |
| 2015             | 297       | Steak haché congelé                       | Frozen ground beef                     | <i>E. coli</i> O157:H7 Ad487  | Ground beef  | Seeding -20°C 1 week  | /                  | 1-1-1-1-1 (1,0)       |      | +             | 1        | a    |
| 2022             | 597       | Haché de porc nature                      | Chilled pork minced                    | <i>E. coli</i> O157:H7 LS3    | Clinic       | Seeding 4°C 48h       | /                  | 2-4-5-0-3             | 2,8  | +             | 1        | a    |
| 2022             | 598       | Haché de porc nature                      | Chilled pork minced                    | <i>E. coli</i> O157:H7 AZRS15 | Clinic       | Seeding 4°C 48h       | /                  | 1-5-7-3-3             | 3,8  | -             | 1        | a    |
| 2022             | 599       | Palets de porc nature                     | Chilled pork minced                    | <i>E. coli</i> O157:H7 AZ06RP | Clinic       | Seeding 4°C 48h       | /                  | 2-1-0-4-1             | 1,6  | +             | 1        | a    |
| 2022             | 935       | Palets de porc nature surgelés            | Frozen minced pork                     | <i>E. coli</i> O157:H7 Ad1501 | Meat         | Seeding -20°C 2 weeks | /                  | 1-2-6-1-2             | 2,4  | -             | 1        | a    |
| 2022             | 937       | Palets de porc nature surgelés            | Frozen minced pork                     | <i>E. coli</i> O157:H7 Ad1501 | Meat         | Seeding -20°C 2 weeks | /                  | 1-2-6-1-2             | 2,4  | -             | 1        | a    |
| 2022             | 1268      | Haché de porcs surgelés                   | Frozen minced pork                     | <i>E. coli</i> O157:H7 Ad583  | Ground beef  | Seeding -20°C 2 weeks | /                  | 5-2-2-3-4             | 3,2  | -             | 1        | a    |
| 2022             | 1269      | Haché de porc nature surgelé              | Frozen minced pork                     | <i>E. coli</i> O157:H7 Ad583  | Ground beef  | Seeding -20°C 2 weeks | /                  | 5-2-2-3-4             | 3,2  | -             | 1        | a    |
| 2022             | 1270      | Haché de porc nature surgelé              | Frozen minced pork                     | <i>E. coli</i> O157:H7 Ad587  | Ground meat  | Seeding -20°C 2 weeks | /                  | 4-3-2-2-5             | 3,2  | +             | 1        | a    |
| 2022             | 1271      | Haché de porcs surgelés                   | Frozen minced pork                     | <i>E. coli</i> O157:H7 Ad587  | Ground meat  | Seeding -20°C 2 weeks | /                  | 4-3-2-2-5             | 3,2  | +             | 1        | a    |
| 2022             | 1417      | Haché de porc frais                       | Fresh minced pork                      | <i>E. coli</i> O157:H7 Ad683  | Meat product | Seeding 4°C 72h       | /                  | 2-1-0-3-1             | 1,4  | +             | 1        | a    |
| 2022             | 1418      | Haché de porc frais                       | Fresh minced pork                      | <i>E. coli</i> O157:H7 Ad933  | Meat product | Seeding 4°C 72h       | /                  | 4-3-0-0-0             | 1,4  | +             | 1        | a    |
| 2022             | 1419      | Palets de porc nature frais               | Fresh minced pork                      | <i>E. coli</i> O157:H7 Ad976  | Meat product | Seeding 4°C 72h       | /                  | 5-0-5-3-3             | 3,2  | +             | 1        | a    |
| 2015             | 3979      | Steak haché aux oignons 15% MG congelé    | Frozen ground beef with onions 15% fat | <i>E. coli</i> O157:H7 Ad564  | Ground beef  | -20°C / 6 days        | 1,1                | 1-2-4-8-3 (3,6)       |      | +             | 1        | b    |
| 2015             | 3980      | Boulettes aux oignons 15% MG congelé      | Frozen beef balls with onions 15% fat  | <i>E. coli</i> O157:H7 Ad564  | Ground beef  | -20°C / 6 days        | 1,1                | 1-2-4-8-3 (3,6)       |      | +             | 1        | b    |
| 2015             | 3981      | Boulettes à l'orientale 15% MG congelé    | Frozen seasoned beef balls 15% fat     | <i>E. coli</i> O157:H7 Ad564  | Ground beef  | -20°C / 6 days        | 1,1                | 1-2-4-8-3 (3,6)       |      | +             | 1        | b    |
| 2015             | 3982      | Boulettes natures 15% MG                  | Beef balls 15% fat                     | <i>E. coli</i> O157:H7 Ad487  | Ground beef  | 4°C / 6 days          | 1,3                | 4-2-1-1-4 (2,4)       |      | +             | 1        | b    |
| 2015             | 4170      | Effeillé de charolais                     | Beef meat                              | <i>E. coli</i> O157:H7 Ad683  | Beef balls   | Seeding 4°C 48h       | /                  | 0-1-0-2-1             | 0,8  | +             | 1        | b    |
| 2015             | 4171      | Pavé de bœuf mariné à l'échalote          | Seasoned beef meat                     | <i>E. coli</i> O157:H7 Ad683  | Beef balls   | Seeding 4°C 48h       | /                  | 0-1-0-2-1             | 0,8  | +             | 1        | b    |
| 2015             | 4172      | Pavé de bœuf mariné aux 3 poivres         | Seasoned beef meat                     | <i>E. coli</i> O157:H7 Ad924  | Ground beef  | Seeding 4°C 48h       | /                  | 0-2-1-0-1 (0,8)       |      | +             | 1        | b    |
| 2015             | 4173      | Carpaccio de bœuf                         | Carpaccio                              | <i>E. coli</i> O157:H7 Ad924  | Ground beef  | Seeding 4°C 48h       | /                  | 0-2-1-0-1 (0,8)       |      | +             | 1        | b    |
| 2015             | 4279      | Steak haché oignon congelé                | Frozen ground beef with onions 15% fat | <i>E. coli</i> O157:H7 Ad486  | Ground beef  | Seeding -20°C 1 week  | /                  | 0-2-1-3-0 (1,2)       |      | -             | 1        | b    |
| 2015             | 4280      | Effeillé de charolais congelé             | Frozen beef meat                       | <i>E. coli</i> O157:H7 Ad561  | Ground beef  | Seeding -20°C 1 week  | /                  | 2-1-2-2-1 (1,6)       |      | +             | 1        | b    |
| 2015             | 4281      | Boulettes boeuf oignon congelées          | Frozen beef balls with onions          | <i>E. coli</i> O157:H7 Ad561  | Ground beef  | Seeding -20°C 1 week  | /                  | 2-1-2-2-1 (1,6)       |      | -             | 1        | b    |
| 2015             | 4282      | Boulettes orientales congelées            | Frozen seasoned beef balls             | <i>E. coli</i> O157:H7 Ad562  | Ground beef  | Seeding -20°C 1 week  | /                  | 0-1-0-1-2 (0,8)       |      | -             | 1        | b    |
| 2015             | 298       | Pavé de bœuf mariné à l'échalote congelé  | Frozen seasoned beef meat              | <i>E. coli</i> O157:H7 Ad487  | Ground beef  | Seeding -20°C 1 week  | /                  | 1-1-1-1-1 (1,0)       |      | +             | 1        | b    |
| 2022             | 676       | Farce à tomate surgelée                   | Frozen seasoned ground pork meat       | <i>E. coli</i> O157:H7AMVT6   | Clinic       | Seeding -20°C 2 weeks | /                  | 4-6-6-2-2             | 4,0  | -             | 1        | b    |
| 2022             | 677       | Chair à saucisse surgelée                 | Frozen seasoned ground pork meat       | <i>E. coli</i> O157:H7AMVT6   | Clinic       | Seeding -20°C 2 weeks | /                  | 4-6-6-2-2             | 4,0  | +             | 1        | b    |
| 2022             | 678       | Farce à tomate surgelée                   | Frozen seasoned ground pork meat       | <i>E. coli</i> O157:H7 LS56   | Clinic       | Seeding -20°C 2 weeks | /                  | 6-0-3-3-8             | 4,0  | +             | 1        | b    |
| 2022             | 850       | Saucisses natures                         | Raw pork meat                          | <i>E. coli</i> O157:H7 Ad683  | Meat         | Seeding 4°C 48h       | /                  | 0-0-3-0-4             | 1,4  | +             | 1        | b    |

| Year of analysis | Sample N° | Product (French name)                        | Product                             | Artificial contaminations     |                      |                       |                    |                       |      | Global result | Category | Type |
|------------------|-----------|--|-------------------------------------|-------------------------------|----------------------|-----------------------|--------------------|-----------------------|------|---------------|----------|------|
|                  |           |  |                                     | Strain                        | Origin               | Injury protocol       | Injury measurement | Inoculation level/25g |      |               |          |      |
|                  |           |  |                                     |                               |                      |                       |                    | Numeration            | Mean |               |          |      |
| 2022             | 851       | Saucisses natures                            | Raw pork meat                       | <i>E. coli</i> O157:H7 803    | Meat                 | Seeding 4°C 48h       | /                  | 3-0-6-4-2             | 3,0  | +             | 1        | b    |
| 2022             | 852       | Saucisses aux herbes                         | Raw seasoned pork meat              | <i>E. coli</i> O157:H7 803    | Meat                 | Seeding 4°C 48h       | /                  | 3-0-6-4-2             | 3,0  | +             | 1        | b    |
| 2015             | 3983      | Tournedos de boeuf                           | Beef trim                           | <i>E. coli</i> O157:H7 Ad487  | Ground beef          | 4°C / 6 days          | 1,3                | 4-2-1-1-4 (2,4)       |      | +             | 1        | c    |
| 2015             | 3984      | Bavette d'ailoyau                            | Beef trim                           | <i>E. coli</i> O157:H7 Ad488  | Ground beef          | 4°C / 6 days          | 1,1                | 3-4-7-3-1 (3,6)       |      | +             | 1        | c    |
| 2015             | 3985      | Bifteck                                      | Beef trim                           | <i>E. coli</i> O157:H7 Ad488  | Ground beef          | 4°C / 6 days          | 1,1                | 3-4-7-3-1 (3,6)       |      | +             | 1        | c    |
| 2015             | 4167      | Entrecôte bœuf                               | Beef trim                           | <i>E. coli</i> O157:H7 Ad559  | Ground beef          | Seeding 4°C 48h       | /                  | 0-0-1-2-2 (1,0)       |      | +             | 1        | c    |
| 2015             | 4168      | Tournedos de boeuf                           | Beef trim                           | <i>E. coli</i> O157:H7 Ad560  | Ground beef          | Seeding 4°C 48h       | /                  | 2-3-1-0-3 (1,8)       |      | +             | 1        | c    |
| 2015             | 4169      | Bifteck de bavette d'ailoyau                 | Beef trim                           | <i>E. coli</i> O157:H7 Ad560  | Ground beef          | Seeding 4°C 48h       | /                  | 2-3-1-0-3 (1,8)       |      | -             | 1        | c    |
| 2015             | 4283      | Entrecôte bœuf congelée                      | Frozen beef trim                    | <i>E. coli</i> O157:H7 Ad562  | Ground beef          | Seeding -20°C 1 week  | /                  | 0-1-0-1-2 (0,8)       |      | -             | 1        | c    |
| 2015             | 4284      | Bavette d'ailoyau congelée                   | Frozen beef trim                    | <i>E. coli</i> O157:H7 Ad1248 | Ground beef          | Seeding -20°C 1 week  | /                  | 2-1-1-0-1 (1,0)       |      | +             | 1        | c    |
| 2015             | 4285      | Tournedos de boeuf congelé                   | Frozen beef trim                    | <i>E. coli</i> O157:H7 Ad1248 | Ground beef          | Seeding -20°C 1 week  | /                  | 2-1-1-0-1 (1,0)       |      | -             | 1        | c    |
| 2015             | 113       | Faux filet congelé                           | Frozen beef trim                    | <i>E. coli</i> O157:H7 Ad975  | Beef meat            | Seeding -20°C 1 week  | /                  | 2-3-0-2-0 (1,4)       |      | -             | 1        | c    |
| 2015             | 114       | Entrecôte bœuf congelée                      | Frozen beef trim                    | <i>E. coli</i> O157:H7 Ad1071 | Ground beef          | Seeding -20°C 1 week  | /                  | 1-2-0-3-1 (1,4)       |      | +             | 1        | c    |
| 2015             | 115       | Faux filet congelé                           | Frozen beef trim                    | <i>E. coli</i> O157:H7 Ad585  | Ground beef          | Seeding -20°C 1 week  | /                  | 2-0-1-0-2 (1,0)       |      | +             | 1        | c    |
| 2015             | 117       | Bavette congelée                             | Frozen beef trim                    | <i>E. coli</i> O157:H7 Ad1174 | Ground beef          | Seeding -20°C 1 week  | /                  | 0-0-0-0-3 (0,6)       |      | +             | 1        | c    |
| 2015             | 296       | Entrecôte bœuf congelé                       | Frozen beef trim                    | <i>E. coli</i> O157:H7 Ad487  | Ground beef          | Seeding -20°C 1 week  | /                  | 1-1-1-1-1 (1,0)       |      | +             | 1        | c    |
| 2022             | 600       | Côte échine de porc                          | Chilled pork trim                   | <i>E. coli</i> O157:H7 LS3    | Clinic               | Seeding 4°C 48h       | /                  | 2-4-5-0-3             | 2,8  | +             | 1        | c    |
| 2022             | 601       | Tranches de filet de porc                    | Chilled pork trim                   | <i>E. coli</i> O157:H7 AZRS15 | Clinic               | Seeding 4°C 48h       | /                  | 1-5-7-3-3             | 3,8  | -             | 1        | c    |
| 2022             | 602       | Poitrine de porc                             | Chilled pork trim                   | <i>E. coli</i> O157:H7 AZ06RP | Clinic               | Seeding 4°C 48h       | /                  | 2-1-0-4-1             | 1,6  | +             | 1        | c    |
| 2022             | 679       | Sauté de porc surgelé                        | Frozen pork trim                    | <i>E. coli</i> O157:H7 LS56   | Clinic               | Seeding -20°C 2 weeks | /                  | 6-0-3-3-8             | 4,0  | +             | 1        | c    |
| 2022             | 680       | Sauté de porc surgelé                        | Frozen pork trim                    | <i>E. coli</i> O157:H7 Ad933  | Meat                 | Seeding -20°C 2 weeks | /                  | 3-3-3-4-1             | 2,8  | +             | 1        | c    |
| 2022             | 681       | Filet mignon de porc surgelé                 | Frozen pork trim                    | <i>E. coli</i> O157:H7 Ad933  | Meat                 | Seeding -20°C 2 weeks | /                  | 3-3-3-4-1             | 2,8  | +             | 1        | c    |
| 2022             | 603       | Poulet curry avec riz                        | Hot meal: curry and rice            | <i>E. coli</i> O157:H7 LS3    | Clinic               | Seeding 4°C 48h       | /                  | 2-4-5-0-3             | 2,8  | +             | 5        | a    |
| 2022             | 604       | Poulet curry avec riz                        | Hot meal: curry and rice            | <i>E. coli</i> O157:H7 AZRS15 | Clinic               | Seeding 4°C 48h       | /                  | 1-5-7-3-3             | 3,8  | -             | 5        | a    |
| 2022             | 605       | Lasagnes                                     | Hot meal: lasagnes                  | <i>E. coli</i> O157:H7 BV2    | Slaughterhouse       | Seeding 4°C 48h       | /                  | 2-4-3-0-2             | 2,2  | +             | 5        | a    |
| 2022             | 606       | Tagliatelles carbonara                       | Hot meal: bacon pasta cream         | <i>E. coli</i> O157:H7 BV2    | Slaughterhouse       | Seeding 4°C 48h       | /                  | 2-4-3-0-2             | 2,2  | +             | 5        | a    |
| 2022             | 607       | Tagliatelles carbonara                       | Hot meal: bacon pasta cream         | <i>E. coli</i> O157:H7 769    | Ground meat          | Seeding 4°C 48h       | /                  | 1-2-1-5-5             | 2,8  | +             | 5        | a    |
| 2022             | 810       | Chili con carné                              | Hot meal: Chili Con Carne           | <i>E. coli</i> O157:H7 ATKP8  | Clinic               | Spiking 15 min 56°C   | 1,0                | 5-4-3-0-3             | 3,0  | -             | 5        | a    |
| 2022             | 811       | Chili con carné                              | Hot meal: Chili Con Carne           | <i>E. coli</i> O157:H7 A425TK | Clinic               | Spiking 15 min 56°C   | 0,9                | 2-3-2-2-2             | 2,2  | +             | 5        | a    |
| 2022             | 812       | Gratin d'endives                             | Hot meal: chicory gratin            | <i>E. coli</i> O157:H7 A425TK | Clinic               | Spiking 15 min 56°C   | 0,9                | 2-3-2-2-2             | 2,2  | +             | 5        | a    |
| 2022             | 813       | Gratin d'endives                             | Hot meal: chicory gratin            | <i>E. coli</i> O157:H7 435    | Meat                 | Spiking 15 min 56°C   | 1,0                | 1-3-3-2-1             | 2,0  | +             | 5        | a    |
| 2022             | 814       | Filet de poulet et pommes de terre cuisinées | Hot meal: chicken and potatoes      | <i>E. coli</i> O157:H7 435    | Meat                 | Spiking 15 min 56°C   | 1,0                | 1-3-3-2-1             | 2,0  | -             | 5        | a    |
| 2022             | 1028      | Blanquette de poulet, riz, légumes           | Hot meal: chicken, rice, vegetables | <i>E. coli</i> O157:H7 Ad3118 | Sprout leek seeds    | Seeding 4°C 48h       | /                  | 1-5-10-2-4            | 4,4  | +             | 5        | a    |
| 2022             | 1030      | Daube provençale au bœuf                     | Hot meal: beef, vegetables          | <i>E. coli</i> O157:H7 BD4    | Environmental sample | Seeding 4°C 48h       | /                  | 2-2-3-1-2             | 2,0  | -             | 5        | a    |
| 2022             | 1031      | Blanquette de veau, riz                      | Hot meal: veal, rice                | <i>E. coli</i> O157:H7 BD4    | Environmental sample | Seeding 4°C 48h       | /                  | 2-2-3-1-2             | 2,0  | +             | 5        | a    |
| 2022             | 1032      | Daube provençale au bœuf                     | Hot meal: beef, vegetables          | <i>E. coli</i> O157:H7 AR15   | Environmental sample | Seeding 4°C 48h       | /                  | 2-3-4-3-0             | 2,4  | +             | 5        | a    |
| 2022             | 1033      | Blanquette de veau, riz                      | Hot meal: veal, rice                | <i>E. coli</i> O157:H7 AR15   | Environmental sample | Seeding 4°C 48h       | /                  | 2-3-4-3-0             | 2,4  | +             | 5        | a    |
| 2022             | 608       | Sandwich jambon beurre                       | RTE: sandwich (ham)                 | <i>E. coli</i> O157:H7 AZRS15 | Clinic               | Seeding 4°C 48h       | /                  | 1-5-7-3-3             | 3,8  | -             | 5        | b    |
| 2022             | 609       | Croque-Monsieur à poêler                     | RTRH: Croque Monsieur               | <i>E. coli</i> O157:H7 AZ06RP | Clinic               | Seeding 4°C 48h       | /                  | 2-1-0-4-1             | 1,6  | +             | 5        | b    |
| 2022             | 610       | Croque-Monsieur à poêler                     | RTRH: Croque Monsieur               | <i>E. coli</i> O157:H7 769    | Ground meat          | Seeding 4°C 48h       | /                  | 1-2-1-5-5             | 2,8  | +             | 5        | b    |
| 2022             | 611       | Tarte aux poireaux                           | RTRH: leeks pie                     | <i>E. coli</i> O157:H7 BV2    | Slaughterhouse       | Seeding 4°C 48h       | /                  | 2-4-3-0-2             | 2,2  | +             | 5        | b    |
| 2022             | 612       | Tarte aux poireaux                           | RTRH: leeks pie                     | <i>E. coli</i> O157:H7 769    | Ground meat          | Seeding 4°C 48h       | /                  | 1-2-1-5-5             | 2,8  | +             | 5        | b    |
| 2022             | 815       | Sandwich jambon emmenthal                    | RTE: sandwich (ham and cheese)      | <i>E. coli</i> O157:H7 ATKP8  | Clinic               | Spiking 15 min 56°C   | 1,0                | 5-4-3-0-3             | 3,0  | -             | 5        | b    |
| 2022             | 816       | Sandwich jambon emmenthal                    | RTE: sandwich (ham and cheese)      | <i>E. coli</i> O157:H7 A425TK | Clinic               | Spiking 15 min 56°C   | 0,9                | 2-3-2-2-2             | 2,2  | +             | 5        | b    |
| 2022             | 817       | Quiche Lorraine                              | RTRH: Quiche Lorraine               | <i>E. coli</i> O157:H7 ATKP8  | Clinic               | Spiking 15 min 56°C   | 1,0                | 5-4-3-0-3             | 3,0  | -             | 5        | b    |

| Year of analysis | Sample N° | Product (French name)                      | Product                        | Artificial contaminations       |                   |                     |                    |                       |      | Global result | Category | Type |
|------------------|-----------|--|--------------------------------|---------------------------------|-------------------|---------------------|--------------------|-----------------------|------|---------------|----------|------|
|                  |           |  |                                | Strain                          | Origin            | Injury protocol     | Injury measurement | Inoculation level/25g |      |               |          |      |
|                  |           |  |                                |                                 |                   |                     |                    | Numeration            | Mean |               |          |      |
| 2022             | 818       | Quiche Lorraine                            | RTRH: Quiche Lorraine          | <i>E. coli</i> O157:H7 435      | Meat              | Spiking 15 min 56°C | 1,0                | 1-3-3-2-1             | 2,0  | +             | 5        | b    |
| 2022             | 819       | Salade pâtes poulet œuf                    | RTE: salad pasta chicken eggs  | <i>E. coli</i> O157:H7 435      | Meat              | Spiking 15 min 56°C | 1,0                | 1-3-3-2-1             | 2,0  | +             | 5        | b    |
| 2022             | 1029      | Tarte aux poireaux                         | RTRH: leek pies                | <i>E. coli</i> O157:H7 Ad3118   | Sprout leek seeds | Seeding 4°C 48h     | /                  | 1-5-10-2-4            | 4,4  | +             | 5        | b    |
| 2022             | 1363      | Sandwich jambon emmenthal                  | RTE: sandwich (ham and cheese) | <i>E. coli</i> O157:H7 1331-100 | Meat product      | Seeding 4°C 48h     | /                  | 1-1-3-1-0             | 1,2  | -             | 5        | b    |
| 2022             | 1364      | Sandwich jambon cheddar                    | RTE: sandwich (ham and cheese) | <i>E. coli</i> O157:H7 12-62    | Meat product      | Seeding 4°C 48h     | /                  | 2-1-0-4-1             | 1,6  | -             | 5        | b    |
| 2022             | 1420      | Sandwich jambon beurre                     | RTE: sandwich (ham and butter) | <i>E. coli</i> O157:H7 Ad683    | Meat product      | Seeding 4°C 72h     | /                  | 2-1-0-3-1             | 1,4  | +             | 5        | b    |
| 2022             | 1421      | Sandwich jambon beurre                     | RTE: sandwich (ham and butter) | <i>E. coli</i> O157:H7 Ad933    | Meat product      | Seeding 4°C 72h     | /                  | 4-3-0-0-0             | 1,4  | +             | 5        | b    |
| 2022             | 613       | Jambon de poulet cuit                      | Cooked chicken meat            | <i>E. coli</i> O157:H7 LS3      | Clinic            | Seeding 4°C 48h     | /                  | 2-4-5-0-3             | 2,8  | -             | 5        | c    |
| 2022             | 614       | Roti de bœuf cuit                          | Cooked beef meat               | <i>E. coli</i> O157:H7 AZ06RP   | Clinic            | Seeding 4°C 48h     | /                  | 2-1-0-4-1             | 1,6  | -             | 5        | c    |
| 2022             | 615       | Roti de bœuf cuit                          | Cooked beef meat               | <i>E. coli</i> O157:H7 769      | Ground meat       | Seeding 4°C 48h     | /                  | 1-2-1-5-5             | 2,8  | +             | 5        | c    |
| 2022             | 616       | Jambon de porc                             | Cooked pork meat               | <i>E. coli</i> O157:H7 BV2      | Slaughterhouse    | Seeding 4°C 48h     | /                  | 2-4-3-0-2             | 2,2  | -             | 5        | c    |
| 2022             | 617       | Jambon de porc                             | Cooked pork meat               | <i>E. coli</i> O157:H7 769      | Ground meat       | Seeding 4°C 48h     | /                  | 1-2-1-5-5             | 2,8  | -             | 5        | c    |
| 2022             | 820       | Roti de bœuf cuit                          | Cooked beef meat               | <i>E. coli</i> O157:H7 ATKP8    | Clinic            | Spiking 15 min 56°C | 1,0                | 5-4-3-0-3             | 3,0  | -             | 5        | c    |
| 2022             | 821       | Roti de bœuf cuit                          | Cooked beef meat               | <i>E. coli</i> O157:H7 A425TK   | Clinic            | Spiking 15 min 56°C | 0,9                | 2-3-2-2-2             | 2,2  | +             | 5        | c    |
| 2022             | 822       | Roti de porc                               | Cooked pork meat               | <i>E. coli</i> O157:H7 ATKP8    | Clinic            | Spiking 15 min 56°C | 1,0                | 5-4-3-0-3             | 3,0  | -             | 5        | c    |
| 2022             | 823       | Roti de porc                               | Cooked pork meat               | <i>E. coli</i> O157:H7 A425TK   | Clinic            | Spiking 15 min 56°C | 0,9                | 2-3-2-2-2             | 2,2  | +             | 5        | c    |
| 2022             | 824       | Roti de poulet                             | Cooked chicken meat            | <i>E. coli</i> O157:H7 435      | Meat              | Spiking 15 min 56°C | 1,0                | 1-3-3-2-1             | 2,0  | -             | 5        | c    |
| 2022             | 1034      | Roti de poulet                             | Cooked chicken meat            | <i>E. coli</i> O157:H7 Ad2222   | Meat              | Seeding 4°C 48h     | /                  | 1-3-2-1-1             | 1,6  | -             | 5        | c    |
| 2022             | 1035      | Blanc de poulet                            | Cooked chicken meat            | <i>E. coli</i> O157:H7 Ad2222   | Meat              | Seeding 4°C 48h     | /                  | 1-3-2-1-1             | 1,6  | -             | 5        | c    |
| 2022             | 1036      | Roti de poulet                             | Cooked chicken meat            | <i>E. coli</i> O157:H7 1211-1   | Meat              | Seeding 4°C 48h     | /                  | 3-2-2-1-2             | 2,0  | +             | 5        | c    |
| 2022             | 1037      | Blanc de poulet                            | Cooked chicken meat            | <i>E. coli</i> O157:H7 1211-1   | Meat              | Seeding 4°C 48h     | /                  | 3-2-2-1-2             | 2,0  | -             | 5        | c    |
| 2022             | 1038      | Jambon cuit                                | Cooked pork meat               | <i>E. coli</i> O157:H7 Ad2222   | Meat              | Seeding 4°C 48h     | /                  | 1-3-2-1-1             | 1,6  | +             | 5        | c    |
| 2022             | 1039      | Jambon cuit                                | Cooked pork meat               | <i>E. coli</i> O157:H7 Ad976    | Meat              | Seeding 4°C 48h     | /                  | 3-2-4-2-5             | 3,2  | +             | 5        | c    |
| 2022             | 1040      | Roti de bœuf doré au four                  | Cooked beef meat               | <i>E. coli</i> O157:H7 Ad976    | Meat              | Seeding 4°C 48h     | /                  | 3-2-4-2-5             | 3,2  | -             | 5        | c    |
| 2022             | 1041      | Roti de bœuf doré au four                  | Cooked beef meat               | <i>E. coli</i> O157:H7 1211-1   | Meat              | Seeding 4°C 48h     | /                  | 3-2-2-1-2             | 2,0  | +             | 5        | c    |
| 2022             | 1132      | Rosbeef cuit                               | Cooked beef meat               | <i>E. coli</i> O157:H7 AR15     | Slaughterhouse    | Seeding 4°C 48h     | /                  | 4-1-4-2-1             | 2,4  | +             | 5        | c    |
| 2022             | 1133      | Roi de bœuf                                | Cooked beef meat               | <i>E. coli</i> O157:H7 B177     | Slaughterhouse    | Seeding 4°C 48h     | /                  | 4-6-74-5              | 5,2  | +             | 5        | c    |
| 2022             | 1134      | Roti de bœuf                               | Cooked beef meat               | <i>E. coli</i> O157:H7 AV36     | Slaughterhouse    | Seeding 4°C 48h     | /                  | 4-2-1-3-3             | 2,6  | +             | 5        | c    |
| 2022             | 1135      | Blanc de poulet                            | Cooked chicken meat            | <i>E. coli</i> O157:H7 AV36     | Slaughterhouse    | Seeding 4°C 48h     | /                  | 4-2-1-3-3             | 2,6  | -             | 5        | c    |
| 2022             | 1136      | Blanc de poulet                            | Cooked chicken meat            | <i>E. coli</i> O157:H7 AR15     | Slaughterhouse    | Seeding 4°C 48h     | /                  | 4-1-4-2-1             | 2,4  | +             | 5        | c    |
| 2022             | 1142      | Blanc de poulet                            | Cooked chicken meat            | <i>E. coli</i> O157:H7 B177     | Slaughterhouse    | Seeding 4°C 48h     | /                  | 4-6-74-5              | 5,2  | -             | 5        | c    |
| 2022             | 620       | Lait pasteurisé de brebis                  | Pasteurized ewe milk           | <i>E. coli</i> O157:H7 Ad2676   | Dairy product     | Seeding 4°C 48h     | /                  | 1-0-3-1-2             | 1,4  | +             | 6        | a    |
| 2022             | 621       | Lait pasteurisé de brebis                  | Pasteurized ewe milk           | <i>E. coli</i> O157:H7 Ad2838   | Cheese            | Seeding 4°C 48h     | /                  | 1-2-3-6-3             | 3,0  | +             | 6        | a    |
| 2022             | 622       | Lait pasteurisé de vache                   | Pasteurized cow milk           | <i>E. coli</i> O157:H7 Ad3101   | Cheese            | Seeding 4°C 48h     | /                  | 3-1-1-1-3             | 1,8  | +             | 6        | a    |
| 2022             | 828       | Lait frais pasteurisé de vache             | Pasteurized cow milk           | <i>E. coli</i> O157:H7 Ad2843   | Raw milk          | Spiking 15 min 56°C | 0,5                | 3-1-3-3-5             | 3,0  | +             | 6        | a    |
| 2022             | 829       | Lait frais pasteurisé de chèvre            | Pasteurized goat milk          | <i>E. coli</i> O157:H7 Ad3185   | Cheese            | Spiking 15 min 56°C | 0,8                | 4-0-2-2-3             | 2,2  | +             | 6        | a    |
| 2022             | 858       | Lait frais 1/2 écrémé pasteurisé de vache  | Pasteurized cow milk           | <i>E. coli</i> O157:H7 Ad3038   | Cheese            | Seeding 4°C 48h     | /                  | 0-1-1-2-3             | 1,4  | +             | 6        | a    |
| 2022             | 859       | Lait frais 1/2 écrémé pasteurisé de vache  | Pasteurized cow milk           | <i>E. coli</i> O157:H7 Ad2846   | Cheese            | Seeding 4°C 48h     | /                  | 3-2-1-1-1             | 1,6  | +             | 6        | a    |
| 2022             | 860       | Lait frais 1/2 écrémé pasteurisé de brebis | Pasteurized ewe milk           | <i>E. coli</i> O157:H7 Ad3101   | Cheese            | Seeding 4°C 48h     | /                  | 3-2-1-3-3             | 2,4  | -             | 6        | a    |
| 2022             | 861       | Lait frais entier pasteurisé de chèvre     | Pasteurized goat milk          | <i>E. coli</i> O157:H7 Ad2978   | Cheese            | Seeding 4°C 48h     | /                  | 0-0-3-1-4             | 1,6  | -             | 6        | a    |
| 2022             | 862       | Lait frais entier pasteurisé de vache      | Pasteurized cow milk           | <i>E. coli</i> O157:H7 Ad2846   | Cheese            | Seeding 4°C 48h     | /                  | 3-2-1-1-1             | 1,6  | -             | 6        | a    |
| 2022             | 1102      | Lait pasteurisé de vache                   | Pasteurized cow milk           | <i>E. coli</i> O157:H7 Ad2676   | Dairy product     | Spiking 15 min 56°C | 0,7                | 4-4-4-4-3             | 3,8  | +             | 6        | a    |
| 2022             | 1103      | Lait pasteurisé de vache                   | Pasteurized cow milk           | <i>E. coli</i> O157:H7 Ad3014   | Goat milk         | Spiking 15 min 56°C | 0,7                | 1-2-4-4-3             | 2,8  | +             | 6        | a    |
| 2022             | 1104      | Lait demi écrémé pasteurisé de vache       | Pasteurized cow milk           | <i>E. coli</i> O157:H7 Ad2676   | Dairy product     | Spiking 15 min 56°C | 0,7                | 4-4-4-4-3             | 3,8  | +             | 6        | a    |
| 2022             | 1105      | Lait demi écrémé pasteurisé de vache       | Pasteurized cow milk           | <i>E. coli</i> O157:H7 Ad3185   | Cheese            | Spiking 15 min 56°C | 0,5                | 1-1-0-4-4             | 2,0  | -             | 6        | a    |

| Year of analysis | Sample N° | Product (French name)                       | Product                      | Artificial contaminations     |               |                     |                    |                       |      | Global result | Category | Type |
|------------------|-----------|---|------------------------------|-------------------------------|---------------|---------------------|--------------------|-----------------------|------|---------------|----------|------|
|                  |           |   |                              | Strain                        | Origin        | Injury protocol     | Injury measurement | Inoculation level/25g |      |               |          |      |
|                  |           |   |                              |                               |               |                     |                    | Numeration            | Mean |               |          |      |
| 2022             | 1106      | Lait pasteurisé de chèvre                   | Pasteurized goat milk        | <i>E. coli</i> O157:H7 Ad2838 | Dairy product | Spiking 15 min 56°C | 0,6                | 3-2-3-2-4             | 2,8  | +             | 6        | a    |
| 2022             | 1107      | Lait pasteurisé de chèvre                   | Pasteurized goat milk        | <i>E. coli</i> O157:H7 Ad3014 | Goat milk     | Spiking 15 min 56°C | 0,7                | 1-2-4-4-3             | 2,8  | +             | 6        | a    |
| 2022             | 1108      | Lait pasteurisé de brebis                   | Pasteurized ewe milk         | <i>E. coli</i> O157:H7 Ad3101 | Cheese        | Spiking 15 min 56°C | 0,8                | 1-3-3-3-3             | 2,6  | +             | 6        | a    |
| 2022             | 1109      | Lait pasteurisé de brebis                   | Pasteurized ewe milk         | <i>E. coli</i> O157:H7 Ad3185 | Cheese        | Spiking 15 min 56°C | 0,5                | 1-1-0-4-4             | 2,0  | +             | 6        | a    |
| 2022             | 618       | Camembert pasteurisé                        | Pasteurized cow milk cheese  | <i>E. coli</i> O157:H7 Ad2676 | Dairy product | Seeding 4°C 48h     | /                  | 1-0-3-1-2             | 1,4  | -             | 6        | b    |
| 2022             | 619       | Emmental pasteurisé                         | Pasteurized cow milk cheese  | <i>E. coli</i> O157:H7 Ad3101 | Cheese        | Seeding 4°C 48h     | /                  | 3-1-1-1-3             | 1,8  | -             | 6        | b    |
| 2022             | 825       | Bûche de chèvre pasteurisée                 | Pasteurized goat milk cheese | <i>E. coli</i> O157:H7 Ad3185 | Cheese        | Spiking 15 min 56°C | 0,8                | 4-0-2-2-3             | 2,2  | +             | 6        | b    |
| 2022             | 826       | Fromage de brebis pasteurisée               | Pasteurized ewe milk cheese  | <i>E. coli</i> O157:H7 Ad3185 | Cheese        | Spiking 15 min 56°C | 0,8                | 4-0-2-2-3             | 2,2  | -             | 6        | b    |
| 2022             | 827       | Brie au lait de vache pasteurisé            | Pasteurized cow milk cheese  | <i>E. coli</i> O157:H7 Ad2843 | Raw milk      | Spiking 15 min 56°C | 0,5                | 3-1-3-3-5             | 3,0  | +             | 6        | b    |
| 2022             | 853       | Bleu au lait de vache pasteurisé            | Pasteurized cow milk cheese  | <i>E. coli</i> O157:H7 Ad3101 | Cheese        | Seeding 4°C 48h     | /                  | 3-2-1-3-3             | 2,4  | +             | 6        | b    |
| 2022             | 854       | Crottin de chèvre au lait pasteurisé        | Pasteurized goat milk cheese | <i>E. coli</i> O157:H7 Ad2978 | Cheese        | Seeding 4°C 48h     | /                  | 0-0-3-1-4             | 1,6  | +             | 6        | b    |
| 2022             | 855       | Langres au lait de vache pasteurisé         | Pasteurized cow milk cheese  | <i>E. coli</i> O157:H7 Ad3038 | Cheese        | Seeding 4°C 48h     | /                  | 0-1-1-2-3             | 1,4  | +             | 6        | b    |
| 2022             | 856       | Pavé du Lot au lait de chèvre pasteurisé    | Pasteurized goat milk cheese | <i>E. coli</i> O157:H7 Ad2978 | Cheese        | Seeding 4°C 48h     | /                  | 0-0-3-1-4             | 1,6  | -             | 6        | b    |
| 2022             | 857       | Manchego au lait pasteurisé de brebis       | Pasteurized ewe milk cheese  | <i>E. coli</i> O157:H7 Ad2846 | Cheese        | Seeding 4°C 48h     | /                  | 3-2-1-1-1             | 1,6  | +             | 6        | b    |
| 2022             | 1110      | Camembert au lait de vache pasteurisé       | Pasteurized cow milk cheese  | <i>E. coli</i> O157:H7 Ad3185 | Cheese        | Spiking 15 min 56°C | 0,5                | 1-1-0-4-4             | 2,0  | +             | 6        | b    |
| 2022             | 1111      | Camembert au lait de vache pasteurisé       | Pasteurized cow milk cheese  | <i>E. coli</i> O157:H7 Ad2676 | Dairy product | Spiking 15 min 56°C | 0,7                | 4-4-4-4-3             | 3,8  | +             | 6        | b    |
| 2022             | 1112      | Camembert au lait de vache pasteurisé       | Pasteurized cow milk cheese  | <i>E. coli</i> O157:H7 Ad3014 | Goat milk     | Spiking 15 min 56°C | 0,7                | 1-2-4-4-3             | 2,8  | +             | 6        | b    |
| 2022             | 1113      | Fromage frais au lait de chèvre pasteurisé  | Pasteurized goat milk cheese | <i>E. coli</i> O157:H7 Ad3014 | Goat milk     | Spiking 15 min 56°C | 0,7                | 1-2-4-4-3             | 2,8  | +             | 6        | b    |
| 2022             | 1114      | Fromage frais au lait de chèvre pasteurisé  | Pasteurized goat milk cheese | <i>E. coli</i> O157:H7 Ad2838 | Dairy product | Spiking 15 min 56°C | 0,6                | 3-2-3-2-4             | 2,8  | +             | 6        | b    |
| 2022             | 1115      | Fromage de chèvre au lait pasteurisé        | Pasteurized goat milk cheese | <i>E. coli</i> O157:H7 Ad2838 | Dairy product | Spiking 15 min 56°C | 0,6                | 3-2-3-2-4             | 2,8  | +             | 6        | b    |
| 2022             | 1116      | Fromage de brebis affiné au lait pasteurisé | Pasteurized ewe milk         | <i>E. coli</i> O157:H7 Ad3101 | Cheese        | Spiking 15 min 56°C | 0,8                | 1-3-3-3-3             | 2,6  | +             | 6        | b    |
| 2022             | 1117      | Fromage de brebis affiné au lait pasteurisé | Pasteurized ewe milk         | <i>E. coli</i> O157:H7 Ad3185 | Cheese        | Spiking 15 min 56°C | 0,5                | 1-1-0-4-4             | 2,0  | +             | 6        | b    |
| 2022             | 1118      | Fromage au lait de brebis pasteurisé        | Pasteurized ewe milk cheese  | <i>E. coli</i> O157:H7 Ad2676 | Dairy product | Spiking 15 min 56°C | 0,7                | 4-4-4-4-3             | 3,8  | +             | 6        | b    |
| 2022             | 1137      | Fromage pasteurisé au lait de vache         | Pasteurized cow milk cheese  | <i>E. coli</i> O157:H7 Ad2834 | Cheese        | Seeding 4°C 48h     |                    | 5-3-4-3-4             | 3,8  | -             | 6        | b    |
| 2022             | 1138      | Fromage pasteurisé au lait de vache         | Pasteurized cow milk cheese  | <i>E. coli</i> O157:H7 Ad2834 | Cheese        | Seeding 4°C 48h     |                    | 5-3-4-3-4             | 3,8  | +             | 6        | b    |
| 2022             | 1139      | Fromage pasteurisé au lait de vache         | Pasteurized cow milk cheese  | <i>E. coli</i> O157:H7 Ad3016 | Milk          | Seeding 4°C 48h     |                    | 2-2-2-1-2             | 1,8  | -             | 6        | b    |
| 2022             | 1140      | Fromage pasteurisé au lait de brebis        | Pasteurized ewe milk         | <i>E. coli</i> O157:H7 Ad2834 | Cheese        | Seeding 4°C 48h     |                    | 5-3-4-3-4             | 3,8  | +             | 6        | b    |
| 2022             | 1141      | Fromage pasteurisé au lait de brebis        | Pasteurized ewe milk         | <i>E. coli</i> O157:H7 Ad3016 | Milk          | Seeding 4°C 48h     |                    | 2-2-2-1-2             | 1,8  | -             | 6        | b    |

## Appendix 4 – Sensitivity study: raw data

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

#### **E. coli O157 detection results:**

|        |  |
|--------|--|
| m:     | minority level of target analyte   |
| M :    | majority level of target analyte   |
| p:     | pure culture level of target analyte   |
| 1/2 :  | 50% level of target analyte  |
| (x):   | number of colonies in the plate  |
| -:     | no typical colonies but presence of background microflora  |
| St:    | plate without any colony   |
| d:     | doubtful result  |
| NC:    | non-characteristic colony onto nutritive agar  |
| A+:    | auto-agglutinable strain   |
| PA:    | positive agreement   |
| NA:    | negative agreement   |
| ND:    | negative deviation   |
| PD:    | positive deviation   |
| PPNA:  | positive presumptive negative agreement  |
| PPND : | positive presumptive negative deviation  |
| *:     | Negative Microgen Latex O157 test with one colony if its size is small, in this case several colonies are needed to obtain a positive latex test |

| RAW BEEF AND PORK MEAT (seasoned or not) |           |   |                            |                              |                |         |                |      |  |  |         |                |  |   |              |                   |  |  |        |         |                |  |                                       |          |      |              |                   |
|--|-----------|---|----------------------------|------------------------------|----------------|---------|----------------|------|--|--|---------|----------------|--|---|--------------|-------------------|--|--|--------|---------|----------------|--|---------------------------------------|----------|------|--------------|-------------------|
| Year of analysis                         | Sample N° | Product (French name)                     | Product                    | Reference method: ISO 16654* |                |         |                |      | Alternative method: Solus <i>E. coli</i> O157 (including <i>E. coli</i> O157:H7) |  |         |                |  |   |              |                   |  |  |        |         |                |  |                                       | Category | Type |              |                   |
|  |           |   |                            | IMS 6h                       |                | IMS 24h |                |      | Final Result   | mTSB Novobiocin (20mg/L) for 16h at 41.5°C |         |                |  |   |              |                   |  | mTSB Novobiocin (20mg/L) for 16h at 41,5°C + 72 h at 5°C ± 3°C |        |         |                |  |                                       |          |      |              |                   |
|  |           |   |                            | CT-SMAC                      | CHROMagar O157 | CT-SMAC | CHROMagar O157 | O.D. |  | Result                                     | CT-SMAC | CHROMagar O157 | Confirmation latex kit (O157 without purification step, H7 after purification) | Tests of the reference method (Latex / Indol) | Final result | Agreement Ref/Alt | Reference method confirmatory test (IMS) | D.O.   | Result | CT-SMAC | CHROMagar O157 | Confirmation latex kit (O157 without purification step, H7 after purification) | Tests of the reference method (Latex) |          |      | Final result | Agreement Ref/Alt |
|  |           |   |                            |                              |                |         |                |      |  |  |         |                |  |   |              |                   |  |  |        |         |                |  |                                       |          |      |              |                   |
| 2015                                     | 3976      | Egréné de bœuf congelé                    | Frozen ground beef         | + p                          | + p            | /       | /              | +    | 2,799  | +  | + m     | + 1/2          | +/+  | +   | +            | PA                | /  | 2,932  | +      | + p     | + 1/2          | +/+  | +                                     | +        | PA   | 1            | a                 |
| 2015                                     | 3977      | Steak haché 15% MG congelé                | Frozen ground beef 15% fat | + p                          | + p            | /       | /              | +    | 2,788  | +  | + M     | + 1/2          | +/+  | +   | +            | PA                | /  | 2,903  | +      | + p     | + 1/2          | +/+  | +                                     | +        | PA   | 1            | a                 |
| 2015                                     | 3978      | Steak haché 10% MG congelé                | Frozen ground beef 10% fat | + p                          | + M            | /       | /              | +    | 2,842  | +  | + 1/2   | + m            | +/+  | +   | +            | PA                | /  | 2,900  | +      | + 1/2   | + m            | +/+  | +                                     | +        | PA   | 1            | a                 |
| 2015                                     | 4164      | Viande hachée pur bœuf 5% MG congelée     | Frozen ground beef 5% fat  | st                           | st             | + md    | -              | +    | 0,068  | -  | -       | + 1/2          | -(x5)  | -(x5)   | -            | ND                | -  | 0,064  | -      | -       | + 1/2          | -(X5)  | -(X5)                                 | -        | ND   | 1            | a                 |
| 2015                                     | 4165      | Tartare de bœuf congelé                   | Frozen ground beef         | st                           | -              | -       | -              | -    | 2,750  | +  | + 1/2   | -              | +/+  | +   | +            | PD                | /  | 2,767  | +      | + M     | -              | +/+  | +                                     | +        | PD   | 1            | a                 |
| 2015                                     | 4166      | Viande hachée pur bœuf 15% MG congelée    | Frozen ground beef 15% fat | + p                          | + p            | /       | /              | +    | 2,77   | +  | + p     | + M            | +/+  | +   | +            | PA                | /  | 2,708  | +      | + p     | + M            | +/+  | +                                     | +        | PA   | 1            | a                 |
| 2015                                     | 4276      | Steak haché 10% MG congelé                | Frozen ground beef 10% fat | st                           | st             | st      | -              | -    | 2,678  | +  | + p     | + 1/2          | +/+  | +   | +            | PD                | /  | 2,886  | +      | + p     | + 1/2          | +/+  | +                                     | +        | PD   | 1            | a                 |
| 2015                                     | 4277      | Steak haché 15% MG congelé                | Frozen ground beef 15% fat | st                           | -              | st      | -              | -    | 0,074  | -  | -       | -              | /  | /   | -            | NA                | -  |  |        |         |                |  |                                       |          |      | 1            | a                 |
| 2015                                     | 4278      | Steak haché 15% MG congelé                | Frozen ground beef 15% fat | st                           | st             | st      | -              | -    | 0,083  | -  | -       | -              | /  | /   | -            | NA                | -  |  |        |         |                |  |                                       |          |      | 1            | a                 |
| 2015                                     | 119       | Steak haché 20% MG congelé                | Frozen ground beef 20% fat | st                           | -              | st      | -              | -    | 0,079  | -  | st      | -              | /  | /   | -            | NA                | -  |  |        |         |                |  |                                       |          |      | 1            | a                 |
| 2015                                     | 120       | Egréné de bœuf congelé                    | Frozen ground beef         | +p                           | +p             | /       | /              | +    | 2,65   | +  | + p     | + p            | +/+  | +   | +            | PA                | /  | 2,842  | +      | + p     | + M            | +/+  | +                                     | +        | PA   | 1            | a                 |
| 2015                                     | 121       | Steak haché façon bouchère 15% MG congelé | Frozen ground beef 15% fat | st                           | -              | st      | -              | -    | 2,699  | +  | + M     | + md           | +/+  | +   | +            | PD                | /  | 2,710  | +      | + md    | + md           | +/+  | +                                     | +        | PD   | 1            | a                 |
| 2015                                     | 122       | Steak haché 15% MG congelé                | Frozen ground beef 15% fat | st                           | -              | st      | -              | -    | 0,078  | -  | -       | -              | /  | /   | -            | NA                | -  |  |        |         |                |  |                                       |          |      | 1            | a                 |
| 2015                                     | 123       | Steak haché 5% MG                         | Ground beef 5% fat         | st                           | -              | st      | -              | -    | 0,072  | -  | -       | -              | /  | /   | -            | NA                | -  |  |        |         |                |  |                                       |          |      | 1            | a                 |
| 2015                                     | 126       | Viande hachée 15% MG                      | Ground beef 15% fat        | st                           | -              | -       | -              | -    | 0,082  | -  | -       | -              | /  | /   | -            | NA                | -  |  |        |         |                |  |                                       |          |      | 1            | a                 |
| 2015                                     | 297       | Steak haché congelé                       | Frozen ground beef         | + pd                         | + pd           | + p     | + 1/2          | +    | 0,08   | -  | -       | -              | /  | /   | -            | ND                | -  | 0,098  | -      | -       | -              | /  | /                                     | -        | ND   | 1            | a                 |
| 2015                                     | 670       | Le Tartare façon brasserie                | Ground beef                | st                           | -              | -       | -              | -    | 0,079  | -  | st      | -              | /  | /   | -            | NA                | -  |  |        |         |                |  |                                       |          |      | 1            | a                 |

\* Analyses performed according to the COFRAC accreditation

| RAW BEEF AND PORK MEAT (seasoned or not) |           |  |  |                              |                |               |                |      |  |  |         |                |  |   |              |                   |  |  |        |         |                |  |                                       |          |      |              |                   |   |   |
|--|-----------|--|--|------------------------------|----------------|---------------|----------------|------|--|--|---------|----------------|--|---|--------------|-------------------|--|--|--------|---------|----------------|--|---------------------------------------|----------|------|--------------|-------------------|---|---|
| Year of analysis                         | Sample N° | Product (French name)                  | Product                                | Reference method: ISO 16654* |                |               |                |      | Alternative method: Solus <i>E. coli</i> O157 (including <i>E. coli</i> O157:H7) |  |         |                |  |   |              |                   |  |  |        |         |                |  |                                       | Category | Type |              |                   |   |   |
|  |           |  |  | IMS 6h                       |                | IMS 24h       |                |      | Final Result   | mTSB Novobiocin (20mg/L) for 16h at 41.5°C |         |                |  |   |              |                   |  | mTSB Novobiocin (20mg/L) for 16h at 41,5°C + 72 h at 5°C ± 3°C |        |         |                |  |                                       |          |      |              |                   |   |   |
|  |           |  |  | CT-SMAC                      | CHROMagar O157 | CT-SMAC       | CHROMagar O157 | O.D. |  | Result                                     | CT-SMAC | CHROMagar O157 | Confirmation latex kit (O157 without purification step, H7 after purification) | Tests of the reference method (Latex / Indol) | Final result | Agreement Ref/Alt | Reference method confirmatory test (IMS) | D.O.   | Result | CT-SMAC | CHROMagar O157 | Confirmation latex kit (O157 without purification step, H7 after purification) | Tests of the reference method (Latex) |          |      | Final result | Agreement Ref/Alt |   |   |
|  |           |  |  |                              |                |               |                |      |  |  |         |                |  |   |              |                   |  |  |        |         |                |  |                                       |          |      |              |                   |   |   |
| 2015                                     | 671       | Viande hachée fraîche pur bœuf 15%MG   | Ground beef 15% fat                    | -                            | -              | -             | -              | -    | 0,065  | -  | -       | + md           | - (x5)   | - (x5)  | -            | NA                | -  |  |        |         |                |  |                                       |          |      |              | 1                 | a |   |
| 2015                                     | 672       | Viande hachée fraîche pur bœuf 5%MG    | Ground beef 5% fat                     | st                           | -              | -             | -              | -    | 0,062  | -  | st      | -              | /  | /   | -            | NA                | -  |  |        |         |                |  |                                       |          |      |              | 1                 | a |   |
| 2015                                     | 673       | Le haché moelleux à cuisiner congelé   | Frozen ground beef                     | st                           | -              | st            | -              | -    | 0,105  | -  | st      | st             | /  | /   | -            | NA                | -  |  |        |         |                |  |                                       |          |      |              | 1                 | a |   |
| 2022                                     | 597       | Haché de porc nature                   | Chilled pork minced                    | st                           | st             | -             | -              | -    | 0,881  | +  | +M      | +M             | +/+  | +   | +            | PD                |  | 0,606  | +      | +M      | +M             | +/+  | +                                     | +        | +    | PD           | 1                 | a |   |
| 2022                                     | 598       | Haché de porc nature                   | Chilled pork minced                    | st                           | st             | -             | -              | -    | 0,020  | -  | -       | -              |  |   | -            | NA                | -  |  |        |         |                |  |                                       |          |      |              | 1                 | a |   |
| 2022                                     | 599       | Palets de porc nature                  | Chilled pork minced                    | +p                           | +p             | /             | /              | +    | 1,730  | +  | +M      | +M             | +/+  | +   | +            | PA                |  | 1,475  | +      | +M      | +M             | +/+  | +                                     | +        | +    | PA           | 1                 | a |   |
| 2022                                     | 935       | Palets de porc nature surgelés         | Frozen minced pork                     | st                           | st             | -             | -              | -    | 0,016  | -  | -       | -              |  |   | -            | NA                | -  |  |        |         |                |  |                                       |          |      |              | 1                 | a |   |
| 2022                                     | 937       | Palets de porc nature surgelés         | Frozen minced pork                     | st                           | st             | -             | -              | -    | 0,019  | -  | -       | -              |  |   | -            | NA                | -  |  |        |         |                |  |                                       |          |      |              | 1                 | a |   |
| 2022                                     | 1143      | Haché frais de porc                    | Chilled pork minced                    | st                           | st             | -             | -              | -    | 0,018  | -  | -       | -              |  |   | -            | NA                | -  |  |        |         |                |  |                                       |          |      |              | 1                 | a |   |
| 2022                                     | 1268      | Haché de porcs surgelés                | Frozen minced pork                     | st                           | -              | +md (Latex -) | -              | -    | 0,004  | -  | -       | -              |  |   | -            | NA                | -  |  |        |         |                |  |                                       |          |      |              | 1                 | a |   |
| 2022                                     | 1269      | Haché de porc nature surgelé           | Frozen minced pork                     | st                           | st             | -             | -              | -    | 0,005  | -  | -       | -              |  |   | -            | NA                | -  |  |        |         |                |  |                                       |          |      |              | 1                 | a |   |
| 2022                                     | 1270      | Haché de porc nature surgelé           | Frozen minced pork                     | -                            | -              | -             | -              | -    | 1,174  | +  | +1/2    | -              | +/+  | +   | +            | PD                |  | 1,168  | +      | +md     | +1/2           | +/+  | +                                     | +        | +    | PD           | 1                 | a |   |
| 2022                                     | 1271      | Haché de porcs surgelés                | Frozen minced pork                     | st                           | st             | -             | -              | -    | 0,647  | +  | +M      | +md            | +/+  | +   | +            | PD                |  | 0,71   | +      | +md     | +m             | +/+  | +                                     | +        | +    | PD           | 1                 | a |   |
| 2022                                     | 1417      | Haché de porc frais                    | Fresh minced pork                      | +p                           | +p             | /             | /              | +    | 1,205  | +  | +M      | +1/2           | +/+  | +   | +            | PA                |  | 0,783  | +      | +M      | +1/2           | +/+  | +                                     | +        | +    | PA           | 1                 | a |   |
| 2022                                     | 1418      | Haché de porc frais                    | Fresh minced pork                      | st                           | st             | +M            | +M             | +    | 0,011  | -  | -       | -              |  |   | -            | ND                | -  | 0,017  | -      | -       | -              |  |                                       |          |      | -            | ND                | 1 | a |
| 2022                                     | 1419      | Palets de porc nature frais            | Fresh minced pork                      | +p                           | +p             | /             | /              | +    | 0,009  | -  | -       | -              |  |   | -            | ND                | -  | 0,010  | -      | -       | -              |  |                                       |          |      | -            | ND                | 1 | a |
| 2015                                     | 3979      | Steak haché aux oignons 15% MG congelé | Frozen ground beef with onions 15% fat | + p                          | + p            | /             | /              | +    | 2,752  | +  | + p     | + M            | +/+  | +   | +            | PA                | /  | 2,793  | +      | + p     | + M            | +/+  | +                                     | +        | +    | PA           | 1                 | b |   |
| 2015                                     | 3980      | Boulettes aux oignons 15% MG congelé   | Frozen beef balls with onions 15% fat  | + p                          | + p            | /             | /              | +    | 2,703  | +  | + 1/2   | -              | +/+  | +   | +            | PA                | /  | 2,824  | +      | + M     | + m(1)         | +/+  | +                                     | +        | +    | PA           | 1                 | b |   |

| RAW BEEF AND PORK MEAT (seasoned or not) |           |  |  |                              |                |         |                |      |  |  |                  |                      |  |   |              |                   |  |  |        |                 |                 |  |                                       |              |          |      |                   |
|--|-----------|--|--|------------------------------|----------------|---------|----------------|------|--|--|------------------|----------------------|--|---|--------------|-------------------|--|--|--------|-----------------|-----------------|--|---------------------------------------|--------------|----------|------|-------------------|
| Year of analysis                         | Sample N° | Product (French name)                    | Product                                | Reference method: ISO 16654* |                |         |                |      | Alternative method: Solus <i>E. coli</i> O157 (including <i>E. coli</i> O157:H7) |  |                  |                      |  |   |              |                   |  |  |        |                 |                 |  |                                       |              | Category | Type |                   |
|  |           |  |  | IMS 6h                       |                | IMS 24h |                |      | Final Result   | mTSB Novobiocin (20mg/L) for 16h at 41.5°C |                  |                      |  |   |              |                   |  | mTSB Novobiocin (20mg/L) for 16h at 41,5°C + 72 h at 5°C ± 3°C |        |                 |                 |  |                                       |              |          |      |                   |
|  |           |  |  | CT-SMAC                      | CHROMagar O157 | CT-SMAC | CHROMagar O157 | O.D. |  | Result                                     | CT-SMAC          | CHROMagar O157       | Confirmation latex kit (O157 without purification step, H7 after purification) | Tests of the reference method (Latex / Indol) | Final result | Agreement Ref/Alt | Reference method confirmatory test (IMS) | D.O.   | Result | CT-SMAC         | CHROMagar O157  | Confirmation latex kit (O157 without purification step, H7 after purification) | Tests of the reference method (Latex) | Final result |          |      | Agreement Ref/Alt |
|  |           |  |  |                              |                |         |                |      |  |  |                  |                      |  |   |              |                   |  |  |        |                 |                 |  |                                       |              |          |      |                   |
| 2015                                     | 3981      | Boulettes à l'orientale 15% MG congelé   | Frozen seasoned beef balls 15% fat     | + p                          | + p            | /       | /              | +    | 2,780  | +  | + m              | + M                  | +/+  | +   | +            | PA                | /  | 2,801  | +      | + p             | + 1/2           | +/+  | +                                     | +            | PA       | 1    | b                 |
| 2015                                     | 3982      | Boulettes natures 15% MG                 | Beef balls 15% fat                     | + p                          | + p            | /       | /              | +    | 2,752  | +  | + p              | + p                  | +/+  | +   | +            | PA                | /  | 2,757  | +      | + p             | + p             | +/+  | +                                     | +            | PA       | 1    | b                 |
| 2015                                     | 4170      | Effeillé de charolais                    | Beef meat                              | st                           | -              | st      | -              | -    | 2,757  | +  | + p              | + 1/2                | +/+  | +   | +            | PD                | /  | 2,807  | +      | + p             | + M             | +*/+   | +                                     | +            | PD       | 1    | b                 |
| 2015                                     | 4171      | Pavé de bœuf mariné à l'échalote         | Seasoned beef meat                     | + p                          | + 1/2          | /       | /              | +    | 2,714  | +  | + p              | + m                  | +/+  | +   | +            | PA                | /  | 2,770  | +      | + m             | + md            | +/+  | +                                     | +            | PA       | 1    | b                 |
| 2015                                     | 4172      | Pavé de bœuf mariné aux 3 poivres        | Seasoned beef meat                     | + p                          | + 1/2          | /       | /              | +    | 1,746  | +  | + M<br>IMS: +M   | + md (1)<br>IMS: +md | -<br>IMS: +/+  | +   | +            | PA                | /  | 2,137  | +      | + 1/2           | -               | +/+  | +                                     | +            | PA       | 1    | b                 |
| 2015                                     | 4173      | Carpaccio de bœuf                        | Carpaccio                              | st                           | st             | -       | -              | -    | 2,688  | +  | + p              | + p                  | +/+  | +   | +            | PD                | /  | 2,780  | +      | + p             | + p             | +*/+   | +                                     | +            | PD       | 1    | b                 |
| 2015                                     | 4279      | Steak haché oignon congelé               | Frozen ground beef with onions 15% fat | st                           | st             | st      | -              | -    | 0,072  | -  | -                | -                    | /  | /   | -            | NA                | -  |  |        |                 |                 |  |                                       |              |          | 1    | b                 |
| 2015                                     | 4280      | Effeillé de charolais congelé            | Frozen beef meat                       | + p                          | + p            | /       | /              | +    | 2,714  | +  | + p              | + p                  | +/+  | +   | +            | PA                | /  | 2,818  | +      | + p             | + p             | +/+  | +                                     | +            | PA       | 1    | b                 |
| 2015                                     | 4281      | Boulettes boeuf oignon congelées         | Frozen beef balls with onions          | st                           | -              | -       | -              | -    | 0,069  | -  | +                | -                    | /  | /   | -            | NA                | -  |  |        |                 |                 |  |                                       |              |          | 1    | b                 |
| 2015                                     | 4282      | Boulettes orientales congelées           | Frozen seasoned beef balls             | st                           | st             | st      | -              | -    | 0,069  | -  | + Md             | + Md                 | -(x10)   | -(x10)  | -            | NA                | -  |  |        |                 |                 |  |                                       |              |          | 1    | b                 |
| 2015                                     | 118       | Boulettes de viande congelées            | Frozen beef balls                      | st                           | st             | st      | -              | -    | 0,072  | -  | st               | -                    | /  | /   | -            | NA                | -  |  |        |                 |                 |  |                                       |              |          | 1    | b                 |
| 2015                                     | 298       | Pavé de bœuf mariné à l'échalote congelé | Frozen seasoned beef meat              | + m                          | + m            | /       | /              | +    | 2,572  | +  | + md<br>IMS: + m | + md<br>IMS: + m     | A+<br>IMS: +/+   | A+<br>IMS: +                                  | +            | PA                | /  | 2,740  | +      | + m<br>IMS: + m | + m<br>IMS: + m | A+<br>IMS: +/+   | A+<br>IMS: +                          | +            | PA       | 1    | b                 |
| 2015                                     | 664       | Carpaccio parmesan                       | Carpaccio with cheese                  | st                           | st             | st      | st             | -    | 0,075  | -  | st               | st                   | /  | /   | -            | NA                | -  |  |        |                 |                 |  |                                       |              |          | 1    | b                 |
| 2015                                     | 665       | Carpaccio olives                         | Carpaccio with olives                  | st                           | st             | st      | st             | -    | 0,074  | -  | st               | -                    | /  | /   | -            | NA                | -  |  |        |                 |                 |  |                                       |              |          | 1    | b                 |
| 2015                                     | 666       | Pavé de rumsteck au poivre               | Seasoned beef meat                     | -                            | -              | -       | -              | -    | 0,074  | -  | -                | -                    | /  | /   | -            | NA                | -  |  |        |                 |                 |  |                                       |              |          | 1    | b                 |
| 2015                                     | 667       | Pavé de rumsteck à l'échalote            | Seasoned beef meat                     | -                            | -              | -       | -              | -    | 0,067  | -  | -                | -                    | /  | /   | -            | NA                | -  |  |        |                 |                 |  |                                       |              |          | 1    | b                 |

| RAW BEEF AND PORK MEAT (seasoned or not) |           |  |                                  |                              |                                   |         |                      |      |  |  |         |                |  |   |              |                   |  |  |        |         |                |  |                                       |          |      |              |                   |
|--|-----------|--|----------------------------------|------------------------------|-----------------------------------|---------|----------------------|------|--|--|---------|----------------|--|---|--------------|-------------------|--|--|--------|---------|----------------|--|---------------------------------------|----------|------|--------------|-------------------|
| Year of analysis                         | Sample N° | Product (French name)                          | Product                          | Reference method: ISO 16654* |                                   |         |                      |      | Alternative method: Solus <i>E. coli</i> O157 (including <i>E. coli</i> O157:H7) |  |         |                |  |   |              |                   |  |  |        |         |                |  |                                       | Category | Type |              |                   |
|  |           |  |                                  | IMS 6h                       |                                   | IMS 24h |                      |      | Final Result   | mTSB Novobiocin (20mg/L) for 16h at 41.5°C |         |                |  |   |              |                   |  | mTSB Novobiocin (20mg/L) for 16h at 41,5°C + 72 h at 5°C ± 3°C |        |         |                |  |                                       |          |      |              |                   |
|  |           |  |                                  | CT-SMAC                      | CHROMagar O157                    | CT-SMAC | CHROMagar O157       | O.D. |  | Result                                     | CT-SMAC | CHROMagar O157 | Confirmation latex kit (O157 without purification step, H7 after purification) | Tests of the reference method (Latex / Indol) | Final result | Agreement Ref/Alt | Reference method confirmatory test (IMS) | D.O.   | Result | CT-SMAC | CHROMagar O157 | Confirmation latex kit (O157 without purification step, H7 after purification) | Tests of the reference method (Latex) |          |      | Final result | Agreement Ref/Alt |
|  |           |  |                                  |                              |                                   |         |                      |      |  |  |         |                |  |   |              |                   |  |  |        |         |                |  |                                       |          |      |              |                   |
| 2015                                     | 668       | Carpaccio de bœuf huile et éclats de noisettes | Carpaccio with oil and hazelnuts | st                           | st                                | st      | -                    | -    | 0,071  | -  | st      | st             | /  | /   | -            | NA                | -  |  |        |         |                |  |                                       |          |      | 1            | b                 |
| 2015                                     | 669       | Boulettes de bœuf                              | Beef balls                       | st                           | -                                 | -       | -                    | -    | 0,065  | -  | st      | -              | /  | /   | -            | NA                | -  |  |        |         |                |  |                                       |          |      | 1            | b                 |
| 2022                                     | 676       | Farce à tomate surgelée                        | Frozen seasoned ground pork meat | st                           | st                                | -       | -                    | -    | 0,028  | -  | -       | -              |  |   | -            | NA                | -  |  |        |         |                |  |                                       |          |      | 1            | b                 |
| 2022                                     | 677       | Chair à saucisse surgelée                      | Frozen seasoned ground pork meat | +p                           | +p                                | /       | /                    | +    | 1,862  | +  | +m      | +m             | +/+  | +   | +            | PA                |  | 1,832  | +      | +m      | +1/2           | +/+  | +                                     | +        | PA   | 1            | b                 |
| 2022                                     | 678       | Farce à tomate surgelée                        | Frozen seasoned ground pork meat | st                           | st                                | -       | -                    | -    | 0,925  | +  | +1/2    | +1/2           | +/+  | +   | +            | PD                |  | 0,694  | +      | +m      | +1/2           | +/+  | +                                     | +        | PD   | 1            | b                 |
| 2022                                     | 850       | Saucisses natures                              | Raw pork meat                    | +p                           | +p                                | /       | /                    | +    | 1,227  | +  | +M      | +M             | +/+  | +   | +            | PA                |  | 1,663  | +      | +M      | +M             | +/+  | +                                     | +        | PA   | 1            | b                 |
| 2022                                     | 851       | Saucisses natures                              | Raw pork meat                    | +p                           | +p                                | /       | /                    | +    | 0,012  | -  | -       | -              |  |   | -            | ND                |  | 0,021  | -      | -       | -              |  |                                       | -        | ND   | 1            | b                 |
| 2022                                     | 852       | Saucisses aux herbes                           | Raw seasoned pork meat           | +p                           | +p                                | /       | /                    | +    | 1,283  | +  | +M      | +M             | +/+  | +   | +            | PA                |  | 1,416  | +      | +1/2    | +M             | +/+  | +                                     | +        | PA   | 1            | b                 |
| 2022                                     | 863       | Saucisses natures                              | Raw pork meat                    | st                           | st                                | -       | -                    | -    | 0,022  | -  | -       | -              |  |   | -            | NA                |  |  |        |         |                |  |                                       |          |      | 1            | b                 |
| 2022                                     | 864       | Saucisses aux herbes                           | Raw seasoned pork meat           | st                           | st                                | -       | -                    | -    | 0,018  | -  | -       | -              |  |   | -            | NA                |  |  |        |         |                |  |                                       |          |      | 1            | b                 |
| 2022                                     | 1042      | Farce à tomate fraîche                         | Seasoned fresh minced pork meat  | -                            | +1/2d (Indol - x5/autoagglu + x5) | -       | +Md (autoagglu + x5) | -    | 0,007/0,015/0,032  | -/-  | +1/2d   | +1/2d          | - (auto-agglu)   | -   | -            | NA                |  | 0,018  | -      | -       | -              |  |                                       | -        | NA   | 1            | b                 |
| 2022                                     | 1043      | Chair à saucisse fraîche                       | Seasoned fresh minced pork meat  | -                            | -                                 | -       | -                    | -    | 0,017  | -  | -       | -              |  |   | -            | NA                |  |  |        |         |                |  |                                       |          |      | 1            | b                 |
| 2022                                     | 1144      | Saucisses                                      | Sausages                         | st                           | st                                | -       | -                    | -    | 0,008  | -  | -       | -              |  |   | -            | NA                |  |  |        |         |                |  |                                       |          |      | 1            | b                 |
| 2015                                     | 3983      | Tournedos de bœuf                              | Beef trim                        | + p                          | + 1/2                             | /       | /                    | +    | 2,742  | +  | + p     | -              | +/+  | +   | +            | PA                | /  | 2,790  | +      | + p     | -              | +/+  | +                                     | +        | PA   | 1            | c                 |
| 2015                                     | 3984      | Bavette d'ailoyau                              | Beef trim                        | st                           | + 1/2                             | + p     | + m                  | +    | 2,710  | +  | + m     | + md           | +/+  | +   | +            | PA                | /  | 2,845  | +      | + 1/2   | + md           | +/+  | +                                     | +        | PA   | 1            | c                 |
| 2015                                     | 3985      | Biftek   | Beef trim                        | + p                          | + M                               | /       | /                    | +    | 2,719  | +  | + Md    | + m            | +*/+   | +   | +            | PA                | /  | 2,754  | +      | + Md    | + md           | +/+  | +                                     | +        | PA   | 1            | c                 |
| 2015                                     | 4167      | Entrecôte bœuf                                 | Beef trim                        | st                           | st                                | st      | -                    | -    | 2,73   | +  | + p     | + p            | +/+  | +   | +            | PD                | /  | 2,740  | +      | + p     | + p            | +*/+   | +                                     | +        | PD   | 1            | c                 |
| 2015                                     | 4168      | Tournedos de bœuf                              | Beef trim                        | + p                          | + p                               | /       | /                    | +    | 0,11   | -  | + p     | + p            | -(x10)   | -(x10)  | -            | ND                |  | 0,098  | -      | + p     | + p            | -(X10)   | -(X10)                                | -        | ND   | 1            | c                 |
| 2015                                     | 4169      | Biftek de bavette d'ailoyau                    | Beef trim                        | st                           | -                                 | -       | -                    | -    | 0,084  | -  | -       | -              | /  | /   | -            | NA                |  |  |        |         |                |  |                                       |          |      | 1            | c                 |
| 2015                                     | 4283      | Entrecôte bœuf congelée                        | Frozen beef trim                 | st                           | -                                 | st      | -                    | -    | 0,072  | -  | -       | -              | /  | /   | -            | NA                |  |  |        |         |                |  |                                       |          |      | 1            | c                 |
| 2015                                     | 4284      | Bavette d'ailoyau congelée                     | Frozen beef trim                 | st                           | st                                | -       | -                    | -    | 2,682  | +  | + p     | + p            | +/+  | +   | +            | PD                | /  | 2,818  | +      | + p     | + p            | +/+  | +                                     | +        | PD   | 1            | c                 |

| RAW BEEF AND PORK MEAT (seasoned or not) |           |                                     |                   |                              |                |      |        |              |  |                |  |   |                |                   |  |      |  |         |                |  |                                       |              |                   |         |          |      |                |   |
|--|-----------|-------------------------------------|-------------------|------------------------------|----------------|------|--------|--------------|--|----------------|--|---|----------------|-------------------|--|------|--|---------|----------------|--|---------------------------------------|--------------|-------------------|---------|----------|------|----------------|---|
| Year of analysis                         | Sample N° | Product (French name)               | Product           | Reference method: ISO 16654* |                |      |        |              | Alternative method: Solus <i>E. coli</i> O157 (including <i>E. coli</i> O157:H7) |                |  |   |                |                   |  |      |  |         |                |  |                                       |              |                   |         | Category | Type |                |   |
|  |           |                                     |                   | IMS 6h                       |                |      |        | Final Result | mTSB Novobiocin (20mg/L) for 16h at 41.5°C                                       |                |  |   |                |                   |  |      | mTSB Novobiocin (20mg/L) for 16h at 41,5°C + 72 h at 5°C ± 3°C |         |                |  |                                       |              |                   |         |          |      |                |   |
|  |           |                                     |                   | IMS 24h                      |                | O.D. | Result |              | CT-SMAC  | CHROMagar O157 | Confirmation latex kit (O157 without purification step, H7 after purification) | Tests of the reference method (Latex / Indol) | Final result   | Agreement Ref/Alt | Reference method confirmatory test (IMS) | D.O. | Result   | CT-SMAC | CHROMagar O157 | Confirmation latex kit (O157 without purification step, H7 after purification) | Tests of the reference method (Latex) | Final result | Agreement Ref/Alt |         |          |      |                |   |
|  |           |                                     |                   | CT-SMAC                      | CHROMagar O157 |      |        |              |  |                |  |   |                |                   |  |      |  |         |                |  |                                       |              |                   | CT-SMAC |          |      | CHROMagar O157 |   |
| 2015                                     | 4285      | Tournedos de bœuf congelé           | Frozen beef trim  | st                           | st             | st   | -      | -            | 0,07   | -              | -  | -   | /              | /                 | -  | NA   | -  |         |                |  |                                       |              |                   |         |          |      | 1              | c |
| 2015                                     | 113       | Faux-filet congelé                  | Frozen beef trim  | st                           | -              | st   | -      | -            | 0,076  | -              | -  | -   | /              | /                 | -  | NA   | -  |         |                |  |                                       |              |                   |         |          |      | 1              | c |
| 2015                                     | 114       | Entrecôte bœuf congelée             | Frozen beef trim  | +p                           | -              | +p   | +m (4) | +            | 0,223  | +              | +M   | -   | +/+            | +                 | +  | PA   | /  | 0,241   | +              | + 1/2  | -                                     | +/+          | +                 | +       | +        | PA   | 1              | c |
| 2015                                     | 115       | Faux-filet congelé                  | Frozen beef trim  | +p                           | +p             | /    | /      | +            | 0,075  | -              | st   | -   | /              | /                 | -  | ND   | -  | 0,128   | -              | st   | -                                     | /            | /                 | -       | -        | ND   | 1              | c |
| 2015                                     | 116       | Entrecôte bœuf congelée             | Frozen beef trim  | st                           | -              | st   | -      | -            | 0,073  | -              | st   | -   | /              | /                 | -  | NA   | -  |         |                |  |                                       |              |                   |         |          |      | 1              | c |
| 2015                                     | 117       | Bavette congelée                    | Frozen beef trim  | st                           | -              | -    | -      | -            | 2,59   | +              | +p   | +M  | +*/+           | +                 | +  | PD   | /  | 2,824   | +              | +p   | +M                                    | +*/+         | +                 | +       | +        | PD   | 1              | c |
| 2015                                     | 124       | Pavé de bœuf                        | Beef trim         | st                           | st             | st   | -      | -            | 0,068  | -              | st   | -   | /              | /                 | -  | NA   | -  |         |                |  |                                       |              |                   |         |          |      | 1              | c |
| 2015                                     | 125       | Bifteck                             | Beef trim         | st                           | st             | st   | st     | -            | 0,072  | -              | st   | -   | /              | /                 | -  | NA   | -  |         |                |  |                                       |              |                   |         |          |      | 1              | c |
| 2015                                     | 296       | Entrecôte bœuf congelé              | Frozen beef trim  | +pd                          | +md            | +p   | +p     | +            | 2,487  | +              | +p   | +md   | +/+            | +                 | +  | PA   | /  | 2,629   | +              | +p   | +M                                    | +/+          | +                 | +       | +        | PA   | 1              | c |
| 2015                                     | 661       | Viande bovine bourguignon à mijoter | Beef trim         | -                            | -              | -    | -      | -            | 0,065  | -              | -  | -   | /              | /                 | -  | NA   | -  |         |                |  |                                       |              |                   |         |          |      | 1              | c |
| 2015                                     | 662       | Viande bovine pavé en tournedos     | Beef trim         | -                            | -              | -    | -      | -            | 0,125  | -              | -  | -   | /              | /                 | -  | NA   | -  |         |                |  |                                       |              |                   |         |          |      | 1              | c |
| 2015                                     | 663       | Viande bovine steak à griller       | Beef trim         | -                            | -              | -    | -      | -            | 0,067  | -              | -  | -   | /              | /                 | -  | NA   | -  |         |                |  |                                       |              |                   |         |          |      | 1              | c |
| 2022                                     | 600       | Côte échine de porc                 | Chilled pork trim | +p                           | +p             | /    | /      | +            | 1,407  | +              | +p   | +p  | +/+            | +                 | +  | PA   |  | 1,591   | +              | +p   | +p                                    | +/+          | +                 | +       | +        | PA   | 1              | c |
| 2022                                     | 601       | Tranches de filet de porc           | Chilled pork trim | st                           | st             | st   | st     | -            | 0,020  | -              | st   | -   |                |                   | -  | NA   | -  |         |                |  |                                       |              |                   |         |          |      | 1              | c |
| 2022                                     | 602       | Poitrine de porc                    | Chilled pork trim | +p                           | +p             | /    | /      | +            | 0,028  | -              | -  | -   |                |                   | -  | ND   | -  | 0,019   | -              | -  | -                                     |              |                   | -       | -        | ND   | 1              | c |
| 2022                                     | 679       | Sauté de porc surgelé               | Frozen pork trim  | st                           | st             | -    | -      | -            | 1,406  | +              | +p   | +M  | +/+            | +                 | +  | PD   |  | 1,542   | +              | +p   | +M                                    | +/+          | +                 | +       | +        | PD   | 1              | c |
| 2022                                     | 680       | Sauté de porc surgelé               | Frozen pork trim  | +p                           | +p             | /    | /      | +            | 1,287  | +              | +M   | +M  | +/+            | +                 | +  | PA   |  | 1,793   | +              | +M   | +M                                    | +/+          | +                 | +       | +        | PA   | 1              | c |
| 2022                                     | 681       | Filet mignon de porc surgelé        | Frozen pork trim  | +p                           | +p             | /    | /      | +            | 1,736  | +              | +p   | +M  | +/+            | +                 | +  | PA   |  | 1,806   | +              | +M   | +M                                    | +/+          | +                 | +       | +        | PA   | 1              | c |
| 2022                                     | 1044      | Côte de porc échine                 | Chilled pork trim | -                            | -              | -    | -      | -            | 0,013/0,011/0,013  | -/-            | +Md  | -   | - (auto-agglu) | -                 | -  | NA   | +md (latex -)  |         |                |  |                                       |              |                   |         |          |      | 1              | c |
| 2022                                     | 1045      | Côte de porc à griller              | Chilled pork trim | st                           | st             | -    | -      | -            | 0,012  | -              | -  | -   |                |                   | -  | NA   | st   |         |                |  |                                       |              |                   |         |          |      | 1              | c |
| 2022                                     | 1050      | Sauté de porc surgelé               | Frozen pork trim  | st                           | st             | -    | -      | -            | 0,022  | -              | -  | -   |                |                   | -  | NA   | -  |         |                |  |                                       |              |                   |         |          |      | 1              | c |
| 2022                                     | 1051      | Côte de porc surgelée               | Frozen pork trim  | -                            | -              | -    | -      | -            | 0,020  | -              | -  | -   |                |                   | -  | NA   | -  |         |                |  |                                       |              |                   |         |          |      | 1              | c |

| RAW MILK AND DAIRY PRODUCTS |           |                       |                |  |                |             |                |              |   |             |               |                   |  |   |              |                   |  |                         |   |               |                   |  |                                       |          |      |              |                   |
|-----------------------------|-----------|-----------------------|----------------|--|----------------|-------------|----------------|--------------|---|-------------|---------------|-------------------|--|---|--------------|-------------------|--|-------------------------|---|---------------|-------------------|--|---------------------------------------|----------|------|--------------|-------------------|
| Year of analysis            | Sample N° | Product (french name) | Product        | Alternative method: Solus <i>E. coli</i> O157 (including <i>E. coli</i> O157:H7) |                |             |                |              |   |             |               |                   |  |   |              |                   |  |                         |   |               |                   |  |                                       | Category | Type |              |                   |
|                             |           |                       |                | Reference method: ISO 16654*   |                |             |                |              | mTSB Novobiocin (20mg/L) for 16 h at 41.5°C |             |               |                   |  |   |              |                   |  |                         | mTSB Novobiocin (20mg/L) for 16 h at 41.5°C + 72 h at 5°C ± 3°C |               |                   |  |                                       |          |      |              |                   |
|                             |           |                       |                | IMS 6 h  |                | IMS 24 h    |                | Final Result | O.D.  | Result      | CT-SMAC       | CHROMagar O157    | Confirmation latex kit (O157 without purification step, H7 after purification) | Tests of the reference method (Latex / Indol) | Final result | Agreement Ref/Alt | Reference method confirmatory test (IMS) | D.O.                    | Result  | CT-SMAC       | CHROMagar O157    | Confirmation latex kit (O157 without purification step, H7 after purification) | Tests of the reference method (Latex) |          |      | Final result | Agreement Ref/Alt |
|                             |           |                       |                | CT-SMAC  | CHROMagar O157 | CT-SMAC     | CHROMagar O157 |              |   |             |               |                   |  |   |              |                   |  |                         |   |               |                   |  |                                       |          |      |              |                   |
| 2015                        | 3996      | Lait cru              | Raw milk       | + M  | + md           | + md        | -              | +            | 1,432                                       | +           | -<br>IMS: +m  | + md<br>IMS: -    | -<br>IMS: +/+  | +   | +            | PA                | /  | 1,405                   | +   | + 1/2         | + md              | +/+  | +                                     | +        | PA   | 2            | a                 |
| 2015                        | 3997      | Lait cru              | Raw milk       | + md   | + md           | + md        | + md           | +            | 0,753                                       | +           | -<br>IMS: +m  | + md<br>IMS: +m   | -<br>IMS: +/+  | +   | +            | PA                | /  | 0,818                   | +   | -<br>IMS: +md | + 1/2<br>IMS: +md | -(X5)<br>IMS: +/+  | +                                     | +        | PA   | 2            | a                 |
| 2015                        | 127       | Lait cru              | Raw Milk       | -  | +md (3)        | St          | + m(1)         | -            | 1,295                                       | +           | -<br>IMS: + m | -<br>IMS: + m     | IMS: +/+   | +   | +            | PD                | +  | 1,374                   | +   | -<br>IMS: +m  | -<br>IMS: +m      | +/+  | +                                     | +        | PD   | 2            | a                 |
| 2015                        | 128       | Lait cru              | Raw Milk       | -  | + md           | -           | + md           | -            | 0,088<br>0,087<br>0,088                     | -<br>-<br>- | -<br>IMS: + m | -<br>IMS: + md    | +/+  | +   | -            | NA                | +  | 0,086<br>0,087<br>0,088 | -<br>-<br>-   | -<br>IMS: +m  | -<br>IMS: +m      | +/+  | +                                     | -        | NA   | 2            | a                 |
| 2015                        | 129       | Lait cru              | Raw Milk       | St   | +Md            | -           | +Md            | -            | 0,064                                       | -           | -             | +m                | -(x5)  | -(x5)   | -            | NA                | -  |                         |   |               |                   |  |                                       |          |      | 2            | a                 |
| 2015                        | 130       | Lait cru              | Raw Milk       | -  | +md            | -           | +md            | -            | 1,161                                       | +           | +m (2)        | + md              | +/+  | +   | +            | PD                | /  | 1,005                   | +   | -<br>IMS: +m  | -<br>IMS: +m      | +/+  | +                                     | +        | PD   | 2            | a                 |
| 2015                        | 131       | Lait cru              | Raw Milk       | St   | St             | -           | -              | -            | 0,063                                       | -           | -             | -                 | /  | /   | -            | NA                | -  |                         |   |               |                   |  |                                       |          |      | 2            | a                 |
| 2015                        | 132       | Lait cru              | Raw Milk       | St   | -              | -           | -              | -            | 2,67  | +           | + 1/2         | -                 | +/+  | +   | +            | PD                | /  | 2,642                   | +   | + m           | -                 | +/+  | +                                     | +        | PD   | 2            | a                 |
| 2015                        | 133       | Lait cru              | Raw Milk       | +m   | +md            | +m          | -              | +            | 2,699                                       | +           | -<br>IMS: +m  | + m(1)<br>IMS: +m | IMS: +/+   | +   | +            | PA                | +  | 2,660                   | +   | + md (1)      | + md              | +/+  | +                                     | +        | PA   | 2            | a                 |
| 2015                        | 134       | Lait cru              | Raw Milk       | -  | -              | -           | -              | -            | 1,916                                       | +           | + M           | + m               | +/+  | +   | +            | PD                | /  | 1,942                   | +   | + m           | + m               | +/+  | +                                     | +        | PD   | 2            | a                 |
| 2015                        | 300       | Lait cru              | Raw milk       | St   | -              | -           | -              | -            | 0,056                                       | -           | -             | + md              | -(x3)  | -(x3)   | -            | NA                | -  |                         |   |               |                   |  |                                       |          |      | 2            | a                 |
| 2015                        | 301       | Lait cru              | Raw milk       | + p  | + M            | /           | /              | +            | 1,623                                       | +           | + md          | -                 | +/+  | +   | +            | PA                | /  | 1,963                   | +   | + md          | -                 | +/+  | +                                     | +        | PA   | 2            | a                 |
| 2015                        | 302       | Lait cru              | Raw milk       | + md (1)   | + pd (4)       | -           | -              | -            | 2,507                                       | +           | + m           | + M               | +/+  | +   | +            | PD                | /  | 2,733                   | +   | + m           | + M               | +/+  | +                                     | +        | PD   | 2            | a                 |
| 2015                        | 305       | Lait cru              | Raw milk       | St   | -              | -           | -              | -            | 0,056                                       | -           | -             | -                 | /  | /   | -            | NA                | -  |                         |   |               |                   |  |                                       |          |      | 2            | a                 |
| 2015                        | 306       | Lait cru              | Raw milk       | St   | -              | -           | -              | -            | 0,057                                       | -           | -             | -                 | /  | /   | -            | NA                | -  |                         |   |               |                   |  |                                       |          |      | 2            | a                 |
| 2015                        | 308       | Lait cru              | Raw milk       | -  | -              | -           | -              | -            | 0,057                                       | -           | -             | + m               | -(x3)  | -(x3)   | -            | NA                | -  |                         |   |               |                   |  |                                       |          |      | 2            | a                 |
| 2015                        | 684       | Lait cru de vache     | Raw milk       | -  | -              | -           | -              | -            | 0,054                                       | -           | -             | -                 | /  | /   | -            | NA                | -  |                         |   |               |                   |  |                                       |          |      | 2            | a                 |
| 2015                        | 685       | Lait cru de vache     | Raw milk       | -  | + md           | -           | + md           | -            | 0,055                                       | -           | -             | + m               | -(x5)  | -(x5)   | -            | NA                | -  |                         |   |               |                   |  |                                       |          |      | 2            | a                 |
| 2015                        | 686       | Lait cru de vache     | Raw milk       | -  | -              | -           | -              | -            | 0,053                                       | -           | -             | -                 | /  | /   | -            | NA                | -  |                         |   |               |                   |  |                                       |          |      | 2            | a                 |
| 2019                        | 4920      | Lait cru fermier      | Raw milk       | -  | +d(latex-)     | +d (latex-) | -d (latex-)    | -            | 1,127                                       | +           | +d            | -                 | +/-  | +   | +            | PD                | + ( <i>E. coli</i> O157)                 | 1,169                   | +   | d             | +d                | +/-  | +                                     | +        | PD   | 2            | a                 |
| 2019                        | 4921      | Lait cru              | Raw milk       | -  | -              | -           | -              | -            | 0,011                                       | -           | -             | -                 | /  | /   | -            | NA                | -  |                         |   |               |                   |  |                                       |          |      | 2            | a                 |
| 2015                        | 3998      | Lait ribot            | Fermented milk | + p  | + p            | /           | /              | +            | 2,821                                       | +           | + pd          | + p               | +/+  | +   | +            | PA                | /  | 2,785                   | +   | + p           | + p               | +/+  | +                                     | +        | PA   | 2            | b                 |
| 2015                        | 3999      | Lait ribot            | Fermented milk | + p  | + p            | /           | /              | +            | 0,064                                       | -           | St<br>IMS: -  | -<br>IMS: -       | /  | /   | -            | ND                | -  | 0,062                   | -   | St            | -                 | /  | /                                     | -        | ND   | 2            | b                 |
| 2015                        | 4000      | Lait fermenté         | Fermented milk | + p  | + p            | /           | /              | +            | 0,061                                       | -           | St<br>IMS: St | St<br>IMS: St     | /  | /   | -            | ND                | -  | 0,063                   | -   | St            | St                | /  | /                                     | -        | ND   | 2            | b                 |
| 2015                        | 4001      | Gros lait fermenté    | Fermented milk | St   | St             | -           | -              | -            | 2,842                                       | +           | + pd          | + md              | +/+  | +   | +            | PD                | /  | 2,836                   | +   | + p           | + md              | +/+  | +                                     | +        | PD   | 2            | b                 |

\* Analyses performed according to the COFRAC accreditation

| RAW MILK AND DAIRY PRODUCTS |           |                               |                   |  |                |          |                |              |   |             |   |  |  |   |              |                   |   |       |                            |              |                  |  |   |                                      |      |              |                   |    |   |   |
|-----------------------------|-----------|-------------------------------|-------------------|--|----------------|----------|----------------|--------------|---|-------------|---|--|--|---|--------------|-------------------|---|-------|----------------------------|--------------|------------------|--|---|--------------------------------------|------|--------------|-------------------|----|---|---|
| Year of analysis            | Sample N° | Product (french name)         | Product           | Alternative method: Solus <i>E. coli</i> O157 (including <i>E. coli</i> O157:H7) |                |          |                |              |   |             |   |  |  |   |              |                   |   |       |                            |              |                  |  |   | Category                             | Type |              |                   |    |   |   |
|                             |           |                               |                   | Reference method: ISO 16654*   |                |          |                |              | mTSB Novobiocin (20mg/L) for 16 h at 41.5°C |             |   |  |  |   |              |                   | mTSB Novobiocin (20mg/L) for 16 h at 41.5°C + 72 h at 5°C ± 3°C |       |                            |              |                  |  |   |                                      |      |              |                   |    |   |   |
|                             |           |                               |                   | IMS 6 h  |                | IMS 24 h |                | Final Result | O.D.  | Result      | CT-SMAC   | CHROMagar O157                                 | Confirmation latex kit (O157 without purification step, H7 after purification) | Tests of the reference method (Latex / Indol) | Final result | Agreement Ref/Alt | Reference method confirmatory test (IMS)                        | D.O.  | Result                     | CT-SMAC      | CHROMagar O157   | Confirmation latex kit (O157 without purification step, H7 after purification) | Tests of the reference method (Latex)   |                                      |      | Final result | Agreement Ref/Alt |    |   |   |
|                             |           |                               |                   | CT-SMAC  | CHROMagar O157 | CT-SMAC  | CHROMagar O157 |              |   |             |   |  |  |   |              |                   |   |       |                            |              |                  |  |   |                                      |      |              |                   |    |   |   |
| 2015                        | 4002      | Crème crue                    | Raw cream         | + p  | + p            | /        | /              | +            | 2,876                                       | +           | + M   | + p  | +/+  | +   | +            | PA                | /   | 2,824 | +                          | + p          | + P              | +/+  | +                                       | +                                    | PA   | 2            | b                 |    |   |   |
| 2015                        | 4192      | Fromage blanc au bifidus      | Soft white cheese | St   | St             | St       | St             | -            | 0,06  | -           | St  | St   | /  | /   | -            | NA                | -   |       |                            |              |                  |  |   |                                      |      | 2            | b                 |    |   |   |
| 2015                        | 4193      | Beurre cru                    | Raw butter        | -  | -              | -        | -              | -            | 0,063                                       | -           | -   | -  | /  | /   | -            | NA                | -   |       |                            |              |                  |  |   |                                      |      | 2            | b                 |    |   |   |
| 2015                        | 4296      | Lait fermenté                 | Fermented milk    | St   | St             | St       | St             | -            | 0,064                                       | -           | St  | St   | /  | /   | -            | NA                | -   |       |                            |              |                  |  |   |                                      |      | 2            | b                 |    |   |   |
| 2015                        | 4297      | Crème fermentée probiotique   | Fermented cream   | + p (15)   | + p (5)        | /        | /              | +            | 0,102<br>0,261<br>0,265                     | -<br>+<br>+ | + M<br>IMS: +p                                    | + Md<br>IMS: +pd                               | +/+  | +   | -            | ND                | +   | 0,310 | +                          | + p          | + p              | +/+  | +                                       | +                                    | PA   | 2            | b                 |    |   |   |
| 2015                        | 4298      | Fromage blanc lait cru entier | Soft white cheese | + p  | + M            | /        | /              | +            | 2,801                                       | +           | + M   | + m  | +/+  | +   | +            | PA                | /   | 2,757 | +                          | + M          | + m              | +/+  | +                                       | +                                    | PA   | 2            | b                 |    |   |   |
| 2015                        | 4299      | Yaourts fermentés             | Fermented yoghurt | St   | St             | St       | St             | -            | 2,785                                       | +           | + p   | + p  | +/+  | +   | +            | PD                | /   | 2,742 | +                          | + p          | + p              | +/+  | +                                       | +                                    | PD   | 2            | b                 |    |   |   |
| 2015                        | 4300      | Gros lait fermier             | Fermented milk    | St   | St             | St       | St             | -            | 2,81  | +           | + p   | + p  | +/+  | +   | +            | PD                | /   | 2,759 | +                          | + p          | + p              | +/+  | +                                       | +                                    | PD   | 2            | b                 |    |   |   |
| 2015                        | 4301      | Gros lait                     | Fermented milk    | St   | St             | St       | St             | -            | 2,801                                       | +           | + p   | + p  | +/+  | +   | +            | PD                | /   | 2,783 | +                          | + p          | + p              | +/+  | +                                       | +                                    | PD   | 2            | b                 |    |   |   |
| 2015                        | 4302      | Crème fraiche brebis          | Milk ewe cream    | St   | St             | St       | St             | -            | 0,063                                       | -           | St  | St   | /  | /   | -            | NA                | -   |       |                            |              |                  |  |   |                                      |      | 2            | b                 |    |   |   |
| 2015                        | 4303      | Faisselle au lait entier      | Fermented milk    | + p (9)  | + p (4)        | /        | /              | +            | 2,633                                       | +           | + m   | + m  | +/+  | +   | +            | PA                | /   | 1,972 | +                          | + p          | + p d            | +/+  | +                                       | +                                    | PA   | 2            | b                 |    |   |   |
| 2015                        | 4304      | Yaourts lait entier ferments  | Fermented yoghurt | + p (15)   | + p (15)       | /        | /              | +            | 0,065                                       | -           | St  | St   | /  | /   | -            | ND                | -   | 0,061 | -                          | St           | St               | /  | /                                       | -                                    | ND   | 2            | b                 |    |   |   |
| 2015                        | 4305      | Faisselle                     | Fermented milk    | St   | St             | St       | St             | -            | 2,75  | +           | + p   | + p  | +/+  | +   | +            | PD                | /   | 2,631 | +                          | + p          | + p              | +/+  | +                                       | +                                    | PD   | 2            | b                 |    |   |   |
| 2015                        | 674       | Lait fermenté                 | Fermented milk    | St   | St             | St       | St             | -            | 0,05  | -           | St  | St   | /  | /   | -            | NA                | -   |       |                            |              |                  |  |   |                                      |      | 2            | b                 |    |   |   |
| 2015                        | 675       | Lait ribot                    | Fermented milk    | St   | -              | St       | -              | -            | 0,054                                       | -           | St  | St   | /  | /   | -            | NA                | -   |       |                            |              |                  |  |   |                                      |      | 2            | b                 |    |   |   |
| 2015                        | 676       | Lait ribot                    | Fermented milk    | St   | St             | St       | St             | -            | 0,05  | -           | St  | St   | /  | /   | -            | NA                | -   |       |                            |              |                  |  |   |                                      |      | 2            | b                 |    |   |   |
| 2015                        | 677       | Crème fraiche de Normandie    | Fermented cream   | St   | St             | St       | St             | -            | 0,05  | -           | St  | St   | /  | /   | -            | NA                | -   |       |                            |              |                  |  |   |                                      |      | 2            | b                 |    |   |   |
| 2015                        | 678       | Crème fraiche                 | Fermented cream   | St   | St             | St       | St             | -            | 0,05  | -           | St  | St   | /  | /   | -            | NA                | -   |       |                            |              |                  |  |   |                                      |      | 2            | b                 |    |   |   |
| 2015                        | 679       | Gros lait fermier             | Fermented milk    | St   | -              | -        | -              | -            | 0,055                                       | -           | St  | -  | /  | /   | -            | NA                | -   |       |                            |              |                  |  |   |                                      |      | 2            | b                 |    |   |   |
| 2015                        | 4003      | Morbier au lait cru           | Raw milk cheese   | + md   | -              | + md     | + md           | +            | 0,218                                       | +           | -<br>IMS: +M                                      | + md (1)<br>IMS: +md                           | -<br>IMS: +/+  | +   | +            | PA                | /   | 0,209 | +                          | + md         | -                | +/+  | +                                       | +                                    | PA   | 2            | c                 |    |   |   |
| 2015                        | 4004      | Bethmale au lait cru          | Raw milk cheese   | + M  | + md           | + 1/2    | -              | +            | 1,347                                       | +           | + md  | -  | +/+  | +   | +            | PA                | /   | 1,284 | +                          | -<br>IMS: +M | -<br>IMS: +md(1) | /<br>IMS: +/+  | +                                       | +                                    | PA   | 2            | c                 |    |   |   |
| 2015                        | 4005      | Reblochon au lait cru         | Raw milk cheese   | -  | + md           | -        | -              | -            | 0,085                                       | -           | -   | -  | /  | /   | -            | NA                | -   |       |                            |              |                  |  |   |                                      |      | 2            | c                 |    |   |   |
| 2015                        | 4184      | Camembert au lait cru         | Raw milk cheese   | + p  | -              | + md     | -              | -            | 0,695                                       | +           | + M<br>IMS: +M<br>Regrowth step after IMS: +m(10) | -<br>IMS: + md(2)<br>Regrowth step after IMS:- | - (x7)<br>IMS: -(x5)<br>Regrowth: -d   | +   | (H7d)        | +                 | PD  | /     | 0,601<br>Regrowth h: 2,666 | +            | Regrowth: +      | + 1/2<br>IMS: +M<br>Regrowth step after IMS: +m                                | -<br>IMS:-<br>Regrowth step after IMS:- | - (x5)<br>IMS: -(x5)<br>Regrowth: -d | +    | (H7d)        | +                 | PD | 2 | c |
| 2015                        | 4185      | Chèvre au lait cru            | Raw milk cheese   | + md   | -              | -        | -              | -            | 0,064                                       | -           | + md  | + md   | - (x5)   | /   | -            | NA                | -   |       |                            |              |                  |  |   |                                      |      | 2            | c                 |    |   |   |

| RAW MILK AND DAIRY PRODUCTS |           |                             |                 |  |                |          |                |              |   |        |         |                |  |   |              |                   |   |       |        |         |                |  |                                       |          |      |              |                   |
|-----------------------------|-----------|-----------------------------|-----------------|--|----------------|----------|----------------|--------------|---|--------|---------|----------------|--|---|--------------|-------------------|---|-------|--------|---------|----------------|--|---------------------------------------|----------|------|--------------|-------------------|
| Year of analysis            | Sample N° | Product (french name)       | Product         | Alternative method: Solus <i>E. coli</i> O157 (including <i>E. coli</i> O157:H7) |                |          |                |              |   |        |         |                |  |   |              |                   |   |       |        |         |                |  |                                       | Category | Type |              |                   |
|                             |           |                             |                 | Reference method: ISO 16654*   |                |          |                |              | mTSB Novobiocin (20mg/L) for 16 h at 41.5°C |        |         |                |  |   |              |                   | mTSB Novobiocin (20mg/L) for 16 h at 41.5°C + 72 h at 5°C ± 3°C |       |        |         |                |  |                                       |          |      |              |                   |
|                             |           |                             |                 | IMS 6 h  |                | IMS 24 h |                | Final Result | O.D.  | Result | CT-SMAC | CHROMagar O157 | Confirmation latex kit (O157 without purification step, H7 after purification) | Tests of the reference method (Latex / Indol) | Final result | Agreement Ref/Alt | Reference method confirmatory test (IMS)                        | D.O.  | Result | CT-SMAC | CHROMagar O157 | Confirmation latex kit (O157 without purification step, H7 after purification) | Tests of the reference method (Latex) |          |      | Final result | Agreement Ref/Alt |
|                             |           |                             |                 | CT-SMAC  | CHROMagar O157 | CT-SMAC  | CHROMagar O157 |              |   |        |         |                |  |   |              |                   |   |       |        |         |                |  |                                       |          |      |              |                   |
| 2015                        | 4186      | Chèvre au lait cru          | Raw milk cheese | + p  | + p            | /        | /              | +            | 2,801                                       | +      | + p     | + M            | +/+  | +   | +            | PA                | /   | 2,752 | +      | + M     | + M            | +/+  | +                                     | +        | PA   | 2            | c                 |
| 2015                        | 4187      | Tricorne au lait cru        | Raw milk cheese | + p  | + M            | /        | /              | +            | 1,705                                       | +      | + p     | + md           | +/+  | +   | +            | PA                | /   | 1,553 | +      | + M     | + m            | +/+  | +                                     | +        | PA   | 2            | c                 |
| 2015                        | 4188      | Fromage vache au lait cru   | Raw milk cheese | + p  | -              | + md     | + md           | +            | 0,063                                       | -      | + p     | + md (2)       | -(x5)  | -(x5)   | -            | ND                | -   | 0,058 | -      | + M     | -              | -(x5)  | -(x5)                                 | -        | ND   | 2            | c                 |
| 2015                        | 4189      | Maroilles                   | Raw milk cheese | St   | -              | -        | -              | -            | 0,06  | -      | -       | -              | /  | /   | -            | NA                | -   |       |        |         |                |  |                                       |          |      | 2            | c                 |
| 2015                        | 4190      | Selles sur Cher             | Raw milk cheese | St   | -              | -        | -              | -            | 0,062                                       | -      | -       | -              | /  | /   | -            | NA                | -   |       |        |         |                |  |                                       |          |      | 2            | c                 |
| 2015                        | 4191      | Reblochon au lait cru       | Raw milk cheese | + m (5)  | -              | -        | -              | -            | 0,062                                       | -      | -       | + md (1)       | -  | /   | -            | NA                | -   |       |        |         |                |  |                                       |          |      | 2            | c                 |
| 2015                        | 135       | Selles sur Cher au lait cru | Raw milk cheese | +p   | +p             | /        | /              | +            | 2,79  | +      | + M     | + m            | +/+  | +   | +            | PA                | /   | 2,893 | +      | + m     | + m            | +/+  | +                                     | +        | PA   | 2            | c                 |
| 2015                        | 136       | Reblochon au lait cru       | Raw milk cheese | +p   | -              | +1/2     | +md            | +            | 0,063                                       | -      | -       | -              | /  | /   | -            | ND                | -   | 0,067 | -      | -       | -              | /  | /                                     | -        | ND   | 2            | c                 |
| 2015                        | 137       | Saint Félicien au lait cru  | Raw milk cheese | St   | -              | St       | -              | -            | 0,063                                       | -      | -       | -              | /  | /   | -            | NA                | -   |       |        |         |                |  |                                       |          |      | 2            | c                 |
| 2015                        | 680       | Roquefort                   | Raw milk cheese | St   | St             | St       | -              | -            | 0,051                                       | -      | St      | -              | /  | /   | -            | NA                | -   |       |        |         |                |  |                                       |          |      | 2            | c                 |
| 2015                        | 681       | Sainte Maure de Touraine    | Raw milk cheese | -  | -              | -        | -              | -            | 0,052                                       | -      | -       | -              | /  | /   | -            | NA                | -   |       |        |         |                |  |                                       |          |      | 2            | c                 |
| 2015                        | 682       | Rocamadour                  | Raw milk cheese | -  | -              | -        | -              | -            | 0,054                                       | -      | -       | -              | /  | /   | -            | NA                | -   |       |        |         |                |  |                                       |          |      | 2            | c                 |
| 2015                        | 683       | Coulommiers au lait cru     | Raw milk cheese | -  | + md           | -        | + md           | -            | 0,054                                       | -      | -       | -              | /  | /   | -            | NA                | -   |       |        |         |                |  |                                       |          |      | 2            | c                 |
| 2019                        | 4922      | Roquefort au lait cru       | Raw milk cheese | st   | -              | st       | -              | -            | 0,009                                       | -      | -       | -              | /  | /   | -            | NA                | -   |       |        |         |                |  |                                       |          |      | 2            | c                 |
| 2019                        | 4923      | Rocamadour AOP au lait cru  | Raw milk cheese | st   | st             | st       | -              | -            | 0,002                                       | -      | st      | -              | /  | /   | -            | NA                | -   |       |        |         |                |  |                                       |          |      | 2            | c                 |
| 2019                        | 4924      | Camembert au lait cru       | Raw milk cheese | +d (latex-)  | -              | -        | -              | -            | 0,023                                       | -      | -       | -              | /  | /   | -            | NA                | -   |       |        |         |                |  |                                       |          |      | 2            | c                 |

| VEGETABLES       |                |   |                               |  |                |             |             |   |   |      |   |                                    |                |  |   |   |                   |  |      |  |                                    |                    |  |          |      |                                       |              |
|------------------|----------------|---|-------------------------------|--|----------------|-------------|-------------|---|---|------|---|------------------------------------|----------------|--|---|---|-------------------|--|------|--|------------------------------------|--------------------|--|----------|------|---------------------------------------|--------------|
| Year of analysis | Sample N°      | Product (french name)                   | Product                       | Alternative method: Solus <i>E. coli</i> O157 (including <i>E. coli</i> O157:H7) |                |             |             |   |   |      |   |                                    |                |  |   |   |                   |  |      |  |                                    |                    |  | Category | Type |                                       |              |
|                  |                |   |                               | Reference method: ISO 16654*   |                |             |             |   | mTSB Novobiocin (20mg/L) for 16 h at 41.5°C |      |   |                                    |                |  |   | mTSB Novobiocin (20mg/L) for 16 h at 41.5°C + 72 h at 5°C ± 3°C |                   |  |      |  |                                    |                    |  |          |      |                                       |              |
|                  |                |   |                               | IMS 6 h  |                | IMS 24 h    |             |   | Final Result                                | O.D. | Result  | CT-SMAC                            | CHROMagar O157 | Confirmation latex kit (O157 without purification step, H7 after purification) | Tests of the reference method (Latex / Indol) | Final result  | Agreement Ref/Alt | Reference method confirmatory test (IMS) | D.O. | Result   | CT-SMAC                            | CHROMagar O157     | Confirmation latex kit (O157 without purification step, H7 after purification) |          |      | Tests of the reference method (Latex) | Final result |
| CT-SMAC          | CHROMagar O157 | CT-SMAC                                 | CHROMagar O157                | CT-SMAC  | CHROMagar O157 |             |             |   |   |      |   |                                    |                |  |   |   |                   |  |      |  |                                    |                    |  |          |      |                                       |              |
| 2015             | 3986           | Jeunes pousses d'épinards               | Baby leaves (spinach)         | + m  | + md (1)       | + 1/2       | + m         | + | 0,642                                       | +    | + md (2)<br>IMS: +m                           | -<br>IMS: -                        | -<br>IMS: +/+  | +  | +   | PA  | /                 | 0,737                                    | +    | + m (3)  | -                                  | +/+                | +  | +        | PA   | 3                                     | a            |
| 2015             | 3987           | Roquette                                | Produce                       | + m  | -              | + m         | -           | - | 2,451                                       | +    | + md<br>IMS: +m                               | -<br>IMS: -                        | -<br>IMS: +/+  | +  | +   | PD  | /                 | 2,341                                    | +    | + md (1)<br>IMS: +m                            | -<br>IMS: +md(1)                   | - (X1)<br>IMS: +/+ | +  | +        | PD   | 3                                     | a            |
| 2015             | 3988           | Mâche                                   | Produce                       | + p  | + M            | /           | /           | + | 2,658                                       | +    | + M   | + M                                | +/+            | +  | +   | PA  | /                 | 2,917                                    | +    | + p  | + M                                | +/+                | +  | +        | PA   | 3                                     | a            |
| 2015             | 4174           | Mâche fraîche                           | Produce                       | St   | -              | -           | -           | - | 0,066                                       | -    | -   | -                                  | /              | /  | -   | NA  | -                 |  |      |  |                                    |                    |  |          |      | 3                                     | a            |
| 2015             | 4175           | Pousses d'épinards fraîches             | Baby leaves                   | + md (1)   | -              | -           | -           | - | 2,648                                       | +    | + M   | + m                                | +/+            | +  | +   | PD  | /                 | 2,611                                    | +    | + M  | + m                                | +/+                | +  | +        | PD   | 3                                     | a            |
| 2015             | 4176           | Pousses de roquette fraîches            | Baby leaves                   | + p  | -              | + md        | -           | + | 0,073                                       | -    | + m   | -                                  | - (x5)         | - (x5)   | -   | ND  | -                 | 0,070                                    | -    | -  | -                                  | /                  | /  | -        | ND   | 3                                     | a            |
| 2015             | 4177           | Jeunes pousses de mesclun fraîches      | Baby leaves                   | -  | -              | -           | -           | - | 0,240<br>0,185<br>0,176                     | +    | IMS:-<br>Regrowth step after IMS:-            | IMS:-<br>Regrowth step after IMS:- | /              | /  | -   | PPNA  | -                 | 0,210                                    | +    | IMS:-<br>Regrowth step after IMS:-             | IMS:-<br>Regrowth step after IMS:- | /                  | /  | -        | PPNA | 3                                     | a            |
| 2015             | 4181           | Pousses d'épinards fraîches             | Baby leaves                   | + M  | + m            | + p         | + m         | + | 0,807                                       | +    | + md  | + md (2)                           | +/+            | +  | +   | PA  | /                 | 0,799                                    | +    | + 1/2  | -                                  | +/+                | +  | +        | PA   | 3                                     | a            |
| 2015             | 4182           | Mesclun frais                           | Produce                       | -  | -              | -           | -           | - | 0,211<br>0,185<br>0,183                     | +    | + m(1)<br>IMS: -<br>Regrowth step after IMS:- | IMS:-<br>Regrowth step after IMS:- | -              | -  | -   | PPNA  | -                 | 0,221                                    | +    | + md(1)<br>IMS: -<br>Regrowth step after IMS:- | IMS:-<br>Regrowth step after IMS:- | -                  | -  | -        | PPNA | 3                                     | a            |
| 2015             | 4295           | Cresson                                 | Produce                       | -  | + m            | -           | -           | - | 0,309                                       | +    | IMS: + M                                      | + 1/2<br>IMS: + m                  | IMS: +/+       | +  | +   | PD  | +                 | 0,319                                    | +    | md (1)<br>IMS: +M                              | + 1/2<br>IMS: +m                   | +/+                | +  | +        | PD   | 3                                     | a            |
| 2015             | 26             | Cœur de sucrine                         | Produce                       | St   | St             | -           | -           | - | 0,053                                       | -    | St  | St                                 | /              | /  | -   | NA  | -                 |  |      |  |                                    |                    |  |          |      | 3                                     | a            |
| 2015             | 27             | Mesclun frais                           | Produce                       | St   | -              | -           | -           | - | 0,063                                       | -    | -   | -                                  | /              | /  | -   | NA  | -                 |  |      |  |                                    |                    |  |          |      | 3                                     | a            |
| 2019             | 4925           | Jeunes pousses d'épinards               | Baby leaves (spinach)         | -  | -              | st          | -d (latex-) | - | 0,029                                       | -    | -   | -                                  | /              | /  | -   | NA  | -                 |  |      |  |                                    |                    |  |          |      | 3                                     | a            |
| 2019             | 4926           | Jeunes pousses de laitue verte et rouge | Baby leaves (lettuce)         | st   | -              | st          | -           | - | 0,009                                       | -    | -   | -                                  | /              | /  | -   | NA  | -                 |  |      |  |                                    |                    |  |          |      | 3                                     | a            |
| 2019             | 4927           | Jeunes pousses                          | Baby leaves                   | st   | -              | -           | -           | - | 0,019                                       | -    | +md   | -                                  | /              | /  | -   | NA  | -                 |  |      |  |                                    |                    |  |          |      | 3                                     | a            |
| 2019             | 4928           | Jeunes pousses de salade                | Baby leaves (lettuce)         | st   | -              | st          | -           | - | 0,010                                       | -    | -   | -                                  | /              | /  | -   | NA  | -                 |  |      |  |                                    |                    |  |          |      | 3                                     | a            |
| 2019             | 4929           | Jeunes pousses roques mesclun           | Baby leave (rocket, mesclun)  | +d (latex-)  | -              | -           | -           | - | 0,009                                       | -    | -   | -                                  | /              | /  | -   | NA  | -                 |  |      |  |                                    |                    |  |          |      | 3                                     | a            |
| 2019             | 4930           | Courgette                               | Zucchini                      | +d (latex-)  | -              | -           | -           | - | 0,033                                       | -    | -   | -                                  | /              | /  | -   | NA  | -                 |  |      |  |                                    |                    |  |          |      | 3                                     | a            |
| 2019             | 4931           | Mâche                                   | Produce                       | +d (latex-)  | -              | +d (latex-) | -           | - | 0,006                                       | -    | -   | -                                  | /              | /  | -   | NA  | -                 |  |      |  |                                    |                    |  |          |      | 3                                     | a            |
| 2019             | 4932           | Poireaux                                | Leeks                         | -  | -              | -           | -d (latex-) | - | 0,047                                       | -    | -   | -                                  | /              | /  | -   | NA  | -                 |  |      |  |                                    |                    |  |          |      | 3                                     | a            |
| 2019             | 4933           | Fenouil                                 | Fennel                        | +d (latex-)  | -              | -           | -           | - | 0,102                                       | -    | -   | -                                  | /              | /  | -   | NA  | -                 |  |      |  |                                    |                    |  |          |      | 3                                     | a            |
| 2015             | 3990           | Salade poulet emmental                  | Deli salad (cheese, chicken)  | + p  | + M            | /           | /           | + | 2,764                                       | +    | + 1/2   | + m                                | +/+            | +  | +   | PA  | /                 | 2,764                                    | +    | + m  | + m                                | +/+                | +  | +        | PA   | 3                                     | b            |
| 2015             | 3991           | Salade caesar                           | Caesar salad                  | St   | -              | -           | -           | - | 2,854                                       | +    | + M   | + m                                | +/+            | +  | +   | PD  | /                 | 2,724                                    | +    | + 1/2  | + m                                | +/+                | +  | +        | PD   | 3                                     | b            |
| 2015             | 3992           | Salade jambon œuf emmental              | Deli salad (ham, egg, cheese) | St   | -              | -           | -           | - | 2,780                                       | +    | + 1/2   | + m                                | +/+            | +  | +   | PD  | /                 | 2,752                                    | +    | + M  | + m                                | +/+                | +  | +        | PD   | 3                                     | b            |
| 2015             | 3993           | Petits pois surgelés                    | Frozen peas                   | + m(2)   | + m(2)         | + m         | + md        | + | 0,068                                       | -    | IMS: -  | + md (1)<br>IMS: -                 | -              | -  | -   | ND  | -                 | 0,072                                    | -    | -  | -                                  | /                  | /  | -        | ND   | 3                                     | b            |
| 2015             | 3994           | Carottes rondelles surgelées            | Frozen sliced frozen carrots  | -  | -              | -           | -           | - | 0,066                                       | -    | IMS: -  | IMS: -                             | /              | /  | -   | NA  | -                 |  |      |  |                                    |                    |  |          |      | 3                                     | b            |
| 2015             | 3995           | Duo de haricots plats surgelés          | Frozen flat beans             | + p (3)  | + m (3)        | + p         | + 1/2       | + | 0,061                                       | -    | IMS: -  | + md (1)<br>IMS: -                 | -              | -  | -   | ND  | -                 | 0,067                                    | -    | -  | -                                  | /                  | /  | -        | ND   | 3                                     | b            |

\* Analyses performed according to the COFRAC accreditation

| VEGETABLES       |           |   |                       |  |                |          |                |   |   |      |        |         |                |  |   |   |                   |  |      |        |         |                |  |          |      |                                       |              |                   |
|------------------|-----------|---|-----------------------|--|----------------|----------|----------------|---|---|------|--------|---------|----------------|--|---|---|-------------------|--|------|--------|---------|----------------|--|----------|------|---------------------------------------|--------------|-------------------|
| Year of analysis | Sample N° | Product (french name)                       | Product               | Alternative method: Solus <i>E. coli</i> O157 (including <i>E. coli</i> O157:H7) |                |          |                |   |   |      |        |         |                |  |   |   |                   |  |      |        |         |                |  | Category | Type |                                       |              |                   |
|                  |           |   |                       | Reference method: ISO 16654*   |                |          |                |   | mTSB Novobiocin (20mg/L) for 16 h at 41.5°C |      |        |         |                |  |   | mTSB Novobiocin (20mg/L) for 16 h at 41.5°C + 72 h at 5°C ± 3°C |                   |  |      |        |         |                |  |          |      |                                       |              |                   |
|                  |           |   |                       | IMS 6 h  |                | IMS 24 h |                |   | Final Result                                | O.D. | Result | CT-SMAC | CHROMagar O157 | Confirmation latex kit (O157 without purification step, H7 after purification) | Tests of the reference method (Latex / Indol) | Final result  | Agreement Ref/Alt | Reference method confirmatory test (IMS) | D.O. | Result | CT-SMAC | CHROMagar O157 | Confirmation latex kit (O157 without purification step, H7 after purification) |          |      | Tests of the reference method (Latex) | Final result | Agreement Ref/Alt |
|                  |           |   |                       | CT-SMAC  | CHROMagar O157 | CT-SMAC  | CHROMagar O157 |   |   |      |        |         |                |  |   |   |                   |  |      |        |         |                |  |          |      |                                       |              |                   |
| 2015             | 4183      | Epinalds hachés congelés                    | Frozen spinach        | + M  | + 1/2          | /        | /              | + | 0,061                                       | -    | -      | -       | /              | /  | -   | ND  | -                 | 0,059                                    | -    | -      | -       | /              | /  | -        | ND   | 3                                     | b            |                   |
| 2015             | 9         | Betteraves vinaigrette                      | Beets deli salad      | + p  | +p             | /        | /              | + | 2,87  | +    | + p    | + p     | +/+            | +  | +   | PA  | /                 | 2,893                                    | +    | + p    | + p     | +/+            | +  | +        | PA   | 3                                     | b            |                   |
| 2015             | 10        | Coleslaw moutarde                           | Coleslaw              | St   | St             | -        | -              | - | 2,759                                       | +    | + p    | + p     | +/+            | +  | +   | PD  | /                 | 2,780                                    | +    | + p    | + p     | +/+            | +  | +        | PD   | 3                                     | b            |                   |
| 2015             | 11        | Celeri remoulade au fromage blanc           | Ready to eat celery   | -  | -              | -        | -              | - | 2,44  | +    | + 1/2  | + m     | +/+            | +  | +   | PD  | /                 | 2,644                                    | +    | + 1/2  | + 1/2   | +/+            | +  | +        | PD   | 3                                     | b            |                   |
| 2015             | 12        | Carottes rapées assaisonnées                | Sliced carrots        | + p (4)  | + p (5)        | /        | /              | + | 2,693                                       | +    | + p    | + p     | +/+            | +  | +   | PA  | /                 | 2,845                                    | +    | + p    | + p     | +/+            | +  | +        | PA   | 3                                     | b            |                   |
| 2015             | 13        | Champignon assaisonnés oignons/purée tomate | Mushroom salad        | + p  | + p            | /        | /              | + | 2,81  | +    | + p    | + p     | +/+            | +  | +   | PA  | /                 | 2,602                                    | +    | + p    | + p     | +/+            | +  | +        | PA   | 3                                     | b            |                   |
| 2015             | 14        | Salade concombre au fromage blanc           | Cucumber deli salad   | St   | St             | St       | St             | - | 0,055                                       | -    | St     | St      | /              | /  | -   | NA  | -                 |  |      |        |         |                |  |          |      | 3                                     | b            |                   |
| 2015             | 15        | Macédoine de légumes                        | Vegetables deli salad | + p  | + p            | /        | /              | + | 0,054                                       | -    | -      | -       | /              | /  | -   | ND  | -                 | 0,052                                    | -    | -      | -       | /              | /  | -        | ND   | 3                                     | b            |                   |
| 2015             | 16        | Trio de crudités (carotte-céleri-mais)      | Deli salad            | St   | St             | -        | -              | - | 0,057                                       | -    | st     | -       | /              | /  | -   | NA  | -                 |  |      |        |         |                |  |          |      | 3                                     | b            |                   |
| 2015             | 17        | Coleslaw                                    | Coleslaw              | St   | St             | St       | St             | - | 0,053                                       | -    | St     | St      | /              | /  | -   | NA  | -                 |  |      |        |         |                |  |          |      | 3                                     | b            |                   |
| 2015             | 18        | Salade de carotte zeste orange              | Deli salad            | St   | St             | St       | St             | - | 0,053                                       | -    | St     | St      | /              | /  | -   | NA  | -                 |  |      |        |         |                |  |          |      | 3                                     | b            |                   |
| 2015             | 19        | Betteraves vinaigrette                      | Beets deli salad      | St   | St             | St       | St             | - | 0,054                                       | -    | St     | St      | /              | /  | -   | NA  | -                 |  |      |        |         |                |  |          |      | 3                                     | b            |                   |
| 2015             | 20        | Macédoine de légumes                        | Vegetables deli salad | St   | St             | -        | -              | - | 0,055                                       | -    | St     | St      | /              | /  | -   | NA  | -                 |  |      |        |         |                |  |          |      | 3                                     | b            |                   |
| 2015             | 21        | Champignon à la grecque                     | Mushroom salad        | St   | St             | St       | St             | - | 0,102                                       | -    | St     | St      | /              | /  | -   | NA  | -                 |  |      |        |         |                |  |          |      | 3                                     | b            |                   |
| 2015             | 22        | Carottes rapées assaisonnées                | Sliced carrots        | St   | St             | St       | St             | - | 0,054                                       | -    | St     | St      | /              | /  | -   | NA  | -                 |  |      |        |         |                |  |          |      | 3                                     | b            |                   |
| 2015             | 23        | Salade de concombre au fromage blanc        | Cucumber deli salad   | St   | St             | St       | St             | - | 0,054                                       | -    | St     | St      | /              | /  | -   | NA  | -                 |  |      |        |         |                |  |          |      | 3                                     | b            |                   |
| 2015             | 24        | Salade chou carottes/ raisin sec            | Deli salad            | St   | St             | St       | St             | - | 0,053                                       | -    | St     | St      | /              | /  | -   | NA  | -                 |  |      |        |         |                |  |          |      | 3                                     | b            |                   |
| 2015             | 25        | Céleri rémoulade au fromage blanc           | Ready to eat celery   | St   | -              | -        | -              | - | 0,053                                       | -    | -      | -       | /              | /  | -   | NA  | -                 |  |      |        |         |                |  |          |      | 3                                     | b            |                   |
| 2015             | 149       | Coleslaw                                    | Coleslaw              | +p   | +p             | /        | /              | + | 2,836                                       | +    | + p    | + p     | +/+            | +  | +   | PA  | /                 | 2,928                                    | +    | + p    | + p     | +/+            | +  | +        | PA   | 3                                     | b            |                   |
| 2015             | 3989      | Pousses de soja                             | Soya sprouts          | + 1/2d   | -              | + m      | -              | + | 0,740                                       | +    | + m    | -       | +/+            | +  | +   | PA  | /                 | 0,767                                    | +    | + m    | -       | +/+            | +  | +        | PA   | 3                                     | c            |                   |
| 2015             | 4178      | Pousse de soja                              | Soya sprouts          | + M  | -              | -        | -              | - | 0,063                                       | -    | -      | -       | /              | /  | -   | NA  | -                 |  |      |        |         |                |  |          |      | 3                                     | c            |                   |
| 2015             | 4179      | Graines germées poireau                     | Sprouts               | -  | -              | -        | -              | - | 0,065                                       | -    | -      | -       | /              | /  | -   | NA  | -                 |  |      |        |         |                |  |          |      | 3                                     | c            |                   |
| 2015             | 4180      | Graines germées chou violet                 | Sprouts               | + md   | -              | + Md     | + md (1)       | + | 0,058                                       | -    | -      | -       | /              | /  | -   | ND  | -                 | 0,057                                    | -    | -      | -       | /              | /  | -        | ND   | 3                                     | c            |                   |
| 2015             | 4286      | Graines germées roquette                    | Sprouts               | + md   | -              | -        | -              | - | 0,069                                       | -    | -      | -       | /              | /  | -   | NA  | -                 |  |      |        |         |                |  |          |      | 3                                     | c            |                   |
| 2015             | 4287      | Graines germées alfa radis                  | Sprouts               | -  | -              | -        | -              | - | 0,071                                       | -    | -      | -       | /              | /  | -   | NA  | -                 |  |      |        |         |                |  |          |      | 3                                     | c            |                   |
| 2015             | 4288      | Graines germées alfalfa                     | Sprouts               | + md   | -              | -        | -              | - | 0,061                                       | -    | -      | -       | /              | /  | -   | NA  | -                 |  |      |        |         |                |  |          |      | 3                                     | c            |                   |
| 2015             | 4289      | Graines germées fenugrec mesclum            | Sprouts               | -  | -              | -        | -              | - | 0,066                                       | -    | -      | -       | /              | /  | -   | NA  | -                 |  |      |        |         |                |  |          |      | 3                                     | c            |                   |
| 2015             | 4290      | Graines germées roquette et alfalfa         | Sprouts               | + md   | -              | +m       | + m            | + | 0,076                                       | -    | -      | -       | /              | /  | -   | ND  | -                 | 0,067                                    | -    | -      | -       | /              | /  | -        | ND   | 3                                     | c            |                   |
| 2015             | 4291      | Graines germées radis fenouil               | Sprouts               | -  | -              | -        | -              | - | 0,067                                       | -    | -      | -       | /              | /  | -   | NA  | -                 |  |      |        |         |                |  |          |      | 3                                     | c            |                   |

| VEGETABLES       |                |                                     |                |  |     |          |       |   |   |      |                  |                 |                |  |   |   |                   |  |      |                      |               |                   |          |      |  |                                       |              |
|------------------|----------------|-------------------------------------|----------------|--|-----|----------|-------|---|---|------|------------------|-----------------|----------------|--|---|---|-------------------|--|------|----------------------|---------------|-------------------|----------|------|--|---------------------------------------|--------------|
| Year of analysis | Sample N°      | Product (french name)               | Product        | Alternative method: Solus <i>E. coli</i> O157 (including <i>E. coli</i> O157:H7) |     |          |       |   |   |      |                  |                 |                |  |   |   |                   |  |      |                      |               |                   | Category | Type |  |                                       |              |
|                  |                |                                     |                | Reference method: ISO 16654*   |     |          |       |   | mTSB Novobiocin (20mg/L) for 16 h at 41.5°C |      |                  |                 |                |  |   | mTSB Novobiocin (20mg/L) for 16 h at 41.5°C + 72 h at 5°C ± 3°C |                   |  |      |                      |               |                   |          |      |  |                                       |              |
|                  |                |                                     |                | IMS 6 h  |     | IMS 24 h |       |   | Final Result                                | O.D. | Result           | CT-SMAC         | CHROMagar O157 | Confirmation latex kit (O157 without purification step, H7 after purification) | Tests of the reference method (Latex / Indol) | Final result  | Agreement Ref/Alt | Reference method confirmatory test (IMS) | D.O. | Result               | CT-SMAC       | CHROMagar O157    |          |      | Confirmation latex kit (O157 without purification step, H7 after purification) | Tests of the reference method (Latex) | Final result |
| CT-SMAC          | CHROMagar O157 | CT-SMAC                             | CHROMagar O157 |  |     |          |       |   |   |      |                  |                 |                |  |   |   |                   |  |      |                      |               |                   |          |      |  |                                       |              |
| 2015             | 4292           | Graines germées roquette            | Sprouts        | + md (2)   | -   | -        | -     | - | 0,067                                       | -    | -                | -               | /              | /  | -   | NA  | -                 |  |      |                      |               |                   |          |      | 3  | c                                     |              |
| 2015             | 4293           | Graines germées betterave rouge     | Sprouts        | + md (2)   | -   | -        | -     | - | 0,117                                       | -    | -                | -               | /              | /  | -   | NA  | -                 |  |      |                      |               |                   |          |      | 3  | c                                     |              |
| 2015             | 4294           | Graines germéesousse soja           | Soya sprouts   | + m (5)  | -   | -        | -     | - | 0,067                                       | -    | -                | -               | /              | /  | -   | NA  | -                 |  |      |                      |               |                   |          |      | 3  | c                                     |              |
| 2015             | 2              | Germes haricots mungo               | Sprouts        | -  | -   | -        | -     | - | 0,068<br>0,100<br>0,099                     | -    | + md             | -               | +/+            | +  | -   | NA  | +                 | 0,079<br>0,090<br>0,096                  | -    | + md                 | -             | +/+               | +        | -    | NA   | 3                                     | c            |
| 2015             | 3              | Fines pousses Alfa radis fenouil    | Sprouts        | + m ni   | -   | + m      | -     | - | 0,367                                       | +    | + md<br>IMS: + m | -<br>IMS: + m   | IMS: +/+       | +  | +   | PD  | +                 | 0,527                                    | +    | + m (2)<br>IMS: + md | -<br>IMS: + m | -(X2)<br>IMS: +/+ | +        | +    | PD   | 3                                     | c            |
| 2015             | 4              | Fines pousses roquette et alfalfa   | Sprouts        | + m ni   | -   | -        | -     | - | 0,06  | -    | -                | -               | /              | /  | -   | NA  | -                 |  |      |                      |               |                   |          |      | 3  | c                                     |              |
| 2015             | 5              | Fines pousses                       | Sprouts        | + m (3)  | -   | + 1/2    | + M   | + | 0,06  | -    | -                | -               | /              | /  | -   | ND  | -                 | 0,054                                    | -    | -                    | -             | /                 | /        | -    | ND   | 3                                     | c            |
| 2015             | 6              | Fines pousses Alfalfa               | Sprouts        | + m  | -   | + M      | + 1/2 | + | 0,063                                       | -    | + md             | -               | -(x5)          | -(x5)  | -   | ND  | -                 | 0,057                                    | -    | + m                  | -             | /                 | /        | -    | ND   | 3                                     | c            |
| 2015             | 7              | Fines pousses roquette et alfalfa   | Sprouts        | + md   | -   | -        | -     | - | 0,061                                       | -    | + md             | -               | -(x5)          | -(x5)  | -   | NA  | -                 |  |      |                      |               |                   |          |      | 3  | c                                     |              |
| 2015             | 8              | Fines pousses alfalfa               | Sprouts        | + md   | -   | -        | + m   | + | 0,123<br>0,135<br>0,135                     | -    | -<br>IMS: + m    | -<br>IMS: + m   | +/+            | +  | -   | ND  | +                 | 0,109<br>0,120<br>0,119                  | -    | -<br>IMS: + md       | -<br>IMS: + m | +/+               | +        | -    | ND   | 3                                     | c            |
| 2015             | 146            | Graines germées roquette et alfalfa | Sprouts        | +md  | -   | +M       | + md  | + | 0,325                                       | +    | -<br>IMS: +md    | -<br>IMS: +m(2) | IMS: +/+       | +  | +   | PA  | +                 | 0,298                                    | +    | + md<br>IMS: +m ni   | -<br>IMS: + m | +/+               | +        | +    | PA   | 3                                     | c            |
| 2015             | 288            | Ciboulette                          | Chives         | + p  | + p | + p      | + p   | + | 2,483                                       | +    | + m              | + m             | +/+            | +  | +   | PA  | /                 | 2,542                                    | +    | + m                  | + m           | +/+               | +        | +    | PA   | 3                                     | c            |
| 2015             | 290            | Persil plat                         | Parsley        | St   | St  | St       | St    | - | 2,623                                       | +    | + p              | + p             | +*/+           | +  | +   | PD  | /                 | 2,752                                    | +    | + p                  | + p           | +/+               | +        | +    | PD   | 3                                     | c            |

| ENVIRONMENTAL SAMPLES |           |   |                        |  |                |          |                |   |   |      |        |         |                |  |   |              |                   |  |   |        |         |                |  |          |      |                                       |              |                   |
|-----------------------|-----------|---|------------------------|--|----------------|----------|----------------|---|---|------|--------|---------|----------------|--|---|--------------|-------------------|--|---|--------|---------|----------------|--|----------|------|---------------------------------------|--------------|-------------------|
| Year of analysis      | Sample N° | Product (french name)                   | Product                | Alternative method: Solus <i>E. coli</i> O157 (including <i>E. coli</i> O157:H7) |                |          |                |   |   |      |        |         |                |  |   |              |                   |  |   |        |         |                |  | Category | Type |                                       |              |                   |
|                       |           |   |                        | Reference method: ISO 16654♦   |                |          |                |   | mTSB Novobiocin (20mg/L) for 16 h at 41.5°C |      |        |         |                |  |   |              |                   |  | mTSB Novobiocin (20mg/L) for 16 h at 41.5°C + 72 h at 5°C ± 3°C |        |         |                |  |          |      |                                       |              |                   |
|                       |           |   |                        | IMS 6 h  |                | IMS 24 h |                |   | Final Result                                | O.D. | Result | CT-SMAC | CHROMagar O157 | Confirmation latex kit (O157 without purification step, H7 after purification) | Tests of the reference method (Latex / Indol) | Final result | Agreement Ref/Alt | Reference method confirmatory test (IMS) | D.O.  | Result | CT-SMAC | CHROMagar O157 | Confirmation latex kit (O157 without purification step, H7 after purification) |          |      | Tests of the reference method (Latex) | Final result | Agreement Ref/Alt |
|                       |           |   |                        | CT-SMAC  | CHROMagar O157 | CT-SMAC  | CHROMagar O157 |   |   |      |        |         |                |  |   |              |                   |  |   |        |         |                |  |          |      |                                       |              |                   |
| 2015                  | 361       | Lingette table blanche                  | Wipe (sprout industry) | + m  | -              | + m      | + m            | + | 0,069                                       | -    | -      | -       | /              | /  | -   | ND           | -                 | 0,065                                    | -   | -      | -       | /              | /  | -        | ND   | 4                                     | a            |                   |
| 2015                  | 362       | Lingette tapis transfert ligne soja     | Wipe (sprout industry) | St   | -              | + M      | + 1/2d         | - | 2,358                                       | +    | + 1/2  | + 1/2   | +/+            | +  | +   | PD           | /                 | 2,267                                    | +   | + md   | + 1/2   | +/+            | +  | +        | PD   | 4                                     | a            |                   |
| 2015                  | 485       | Lingette atelier boucherie              | Wipe (meat industry)   | St   | St             | + pd     | -              | - | 0,056                                       | -    | + Md   | + Md    | -(x10)         | -(x10)   | -   | NA           | -                 |  |   |        |         |                |  |          |      | 4                                     | a            |                   |
| 2015                  | 487       | Lingette atelier boucherie              | Wipe (meat industry)   | St   | St             | St       | St             | - | 0,052                                       | -    | St     | St      | /              | /  | -   | NA           | -                 |  |   |        |         |                |  |          |      | 4                                     | a            |                   |
| 2015                  | 488       | Lingette atelier boucherie              | Wipe (meat industry)   | St   | St             | St       | -              | - | 0,055                                       | -    | St     | St      | /              | /  | -   | NA           | -                 |  |   |        |         |                |  |          |      | 4                                     | a            |                   |
| 2015                  | 489       | Lingette atelier boucherie              | Wipe (meat industry)   | St   | St             | St       | -              | - | 0,053                                       | -    | St     | St      | /              | /  | -   | NA           | -                 |  |   |        |         |                |  |          |      | 4                                     | a            |                   |
| 2015                  | 490       | Lingette atelier boucherie              | Wipe (meat industry)   | St   | St             | St       | St             | - | 0,053                                       | -    | St     | St      | /              | /  | -   | NA           | -                 |  |   |        |         |                |  |          |      | 4                                     | a            |                   |
| 2015                  | 491       | Lingette atelier boucherie              | Wipe (meat industry)   | St   | St             | St       | St             | - | 0,05  | -    | St     | St      | /              | /  | -   | NA           | -                 |  |   |        |         |                |  |          |      | 4                                     | a            |                   |
| 2015                  | 492       | Lingette atelier boucherie              | Wipe (meat industry)   | St   | St             | + md     | -              | - | 0,051                                       | -    | St     | St      | /              | /  | -   | NA           | -                 |  |   |        |         |                |  |          |      | 4                                     | a            |                   |
| 2015                  | 493       | Lingette atelier boucherie              | Wipe (meat industry)   | St   | St             | St       | St             | - | 0,051                                       | -    | St     | St      | /              | /  | -   | NA           | -                 |  |   |        |         |                |  |          |      | 4                                     | a            |                   |
| 2015                  | 494       | Lingette atelier boucherie              | Wipe (meat industry)   | St   | St             | St       | St             | - | 0,51  | -    | St     | St      | /              | /  | -   | NA           | -                 |  |   |        |         |                |  |          |      | 4                                     | a            |                   |
| 2015                  | 495       | Lingette atelier boucherie              | Wipe (meat industry)   | St   | St             | St       | St             | - | 0,052                                       | -    | St     | St      | /              | /  | -   | NA           | -                 |  |   |        |         |                |  |          |      | 4                                     | a            |                   |
| 2015                  | 497       | Lingette atelier boucherie              | Wipe (meat industry)   | St   | St             | St       | St             | - | 0,052                                       | -    | St     | St      | /              | /  | -   | NA           | -                 |  |   |        |         |                |  |          |      | 4                                     | a            |                   |
| 2015                  | 498       | Lingette atelier boucherie              | Wipe (meat industry)   | St   | St             | St       | St             | - | 0,052                                       | -    | St     | St      | /              | /  | -   | NA           | -                 |  |   |        |         |                |  |          |      | 4                                     | a            |                   |
| 2015                  | 499       | Lingette atelier boucherie              | Wipe (meat industry)   | St   | -              | -        | -              | - | 0,052                                       | -    | St     | St      | /              | /  | -   | NA           | -                 |  |   |        |         |                |  |          |      | 4                                     | a            |                   |
| 2015                  | 500       | Lingette atelier boucherie              | Wipe (meat industry)   | St   | St             | St       | St             | - | 0,051                                       | -    | St     | St      | /              | /  | -   | NA           | -                 |  |   |        |         |                |  |          |      | 4                                     | a            |                   |
| 2015                  | 502       | Lingette atelier boucherie              | Wipe (meat industry)   | St   | St             | St       | St             | - | 0,053                                       | -    | St     | St      | /              | /  | -   | NA           | -                 |  |   |        |         |                |  |          |      | 4                                     | a            |                   |
| 2015                  | 503       | Lingette atelier boucherie              | Wipe (meat industry)   | St   | St             | St       | St             | - | 0,053                                       | -    | St     | St      | /              | /  | -   | NA           | -                 |  |   |        |         |                |  |          |      | 4                                     | a            |                   |
| 2015                  | 504       | Lingette atelier boucherie              | Wipe (meat industry)   | St   | St             | St       | -              | - | 0,053                                       | -    | St     | St      | /              | /  | -   | NA           | -                 |  |   |        |         |                |  |          |      | 4                                     | a            |                   |
| 2015                  | 597       | Lingette tapis gras                     | Wipe (meat industry)   | -  | -              | -        | -              | - | 0,091                                       | -    | -      | -       | /              | /  | -   | NA           | -                 |  |   |        |         |                |  |          |      | 4                                     | a            |                   |
| 2015                  | 1253      | Lingette table poussoir après nettoyage | Wipe (meat industry)   | St   | St             | St       | St             | - | 0,054                                       | -    | St     | St      | /              | /  | -   | NA           | -                 |  |   |        |         |                |  |          |      | 4                                     | a            |                   |
| 2015                  | 1254      | Lingette poussoir après nettoyage       | Wipe (meat industry)   | St   | St             | St       | St             | - | 0,051                                       | -    | St     | St      | /              | /  | -   | NA           | -                 |  |   |        |         |                |  |          |      | 4                                     | a            |                   |
| 2015                  | 1256      | Lingette table poussoir (process)       | Wipe (meat industry)   | St   | -              | St       | -              | - | 2,597                                       | +    | + p    | + m     | +/+            | +  | +   | PD           | /                 | 2,487                                    | +   | + p    | + m     | +/+            | +  | +        | PD   | 4                                     | a            |                   |
| 2015                  | 1257      | Lingette cuve cutter (process)          | Wipe (meat industry)   | -  | -              | + p      | + 1/2          | + | 2,51  | +    | + p    | -       | +/+            | +  | +   | PA           | /                 | 2,401                                    | +   | + M    | -       | +/+            | +  | +        | PA   | 4                                     | a            |                   |
| 2015                  | 1258      | Lingette tremie poussoir (process)      | Wipe (meat industry)   | -  | -              | St       | -              | - | 2,526                                       | +    | + p    | + m     | +/+            | +  | +   | PD           | /                 | 2,397                                    | +   | + p    | + m     | +/+            | +  | +        | PD   | 4                                     | a            |                   |
| 2015                  | 1326      | Lingettes process carné                 | Wipe (meat industry)   | St   | St             | St       | St             | - | 2,827                                       | +    | + p    | + p     | +/+            | +  | +   | PD           | /                 | 2,586                                    | +   | + p    | + p     | +/+            | +  | +        | PD   | 4                                     | a            |                   |
| 2015                  | 1327      | Lingettes process carné                 | Wipe (meat industry)   | St   | St             | St       | St             | - | 2,379                                       | +    | + p    | + p     | +/+            | +  | +   | PD           | /                 | 2,166                                    | +   | + p    | + p     | +/+            | +  | +        | PD   | 4                                     | a            |                   |

♦ Analyses performed according to the COFRAC accreditation

ADRIA Développement

Summary report (Version 0)

Solus *E. coli* O157 ELISA

| ENVIRONMENTAL SAMPLES |           |  |   |  |                |          |                |              |   |        |                        |                 |  |   |              |                   |   |       |        |             |                    |  |                                       |          |      |              |                   |
|-----------------------|-----------|--|---|--|----------------|----------|----------------|--------------|---|--------|------------------------|-----------------|--|---|--------------|-------------------|---|-------|--------|-------------|--------------------|--|---------------------------------------|----------|------|--------------|-------------------|
| Year of analysis      | Sample N° | Product (french name)  | Product   | Alternative method: Solus <i>E. coli</i> O157 (including <i>E. coli</i> O157:H7) |                |          |                |              |   |        |                        |                 |  |   |              |                   |   |       |        |             |                    |  |                                       | Category | Type |              |                   |
|                       |           |  |   | Reference method: ISO 16654*   |                |          |                |              | mTSB Novobiocin (20mg/L) for 16 h at 41.5°C |        |                        |                 |  |   |              |                   | mTSB Novobiocin (20mg/L) for 16 h at 41.5°C + 72 h at 5°C ± 3°C |       |        |             |                    |  |                                       |          |      |              |                   |
|                       |           |  |   | IMS 6 h  |                | IMS 24 h |                | Final Result | O.D.  | Result | CT-SMAC                | CHROMagar O157  | Confirmation latex kit (O157 without purification step, H7 after purification) | Tests of the reference method (Latex / Indol) | Final result | Agreement Ref/Alt | Reference method confirmatory test (IMS)                        | D.O.  | Result | CT-SMAC     | CHROMagar O157     | Confirmation latex kit (O157 without purification step, H7 after purification) | Tests of the reference method (Latex) |          |      | Final result | Agreement Ref/Alt |
|                       |           |  |   | CT-SMAC  | CHROMagar O157 | CT-SMAC  | CHROMagar O157 |              |   |        |                        |                 |  |   |              |                   |   |       |        |             |                    |  |                                       |          |      |              |                   |
| 2015                  | 1329      | Lingettes process carné  | Wipe (meat industry)                            | + p  | + p            | /        | /              | +            | 2,827                                       | +      | + p                    | + M             | + /+   | +   | +            | PA                | /   | 2,496 | +      | + p         | + p                | + /+   | +                                     | +        | PA   | 4            | a                 |
| 2015                  | 1330      | Lingettes process carné  | Wipe (meat industry)                            | + p  | + p            | /        | /              | +            | 2,78  | +      | + p                    | + p             | + /+   | +   | +            | PA                | /   | 2,275 | +      | + p         | + p                | + /+   | +                                     | +        | PA   | 4            | a                 |
| 2015                  | 357       | Eau de forage  | Process water (sprout industry)                 | + p  | + p            | /        | /              | +            | 2,405                                       | +      | + p                    | + p             | + /+   | +   | +            | PA                | /   | 2,423 | +      | + p         | + p                | + /+   | +                                     | +        | PA   | 4            | b                 |
| 2015                  | 358       | Eau de lavage  | Process water (sprout industry)                 | + p  | + M            | /        | /              | +            | 2,24  | +      | + M                    | + 1/2           | + /+   | +   | +            | PA                | /   | 2,352 | +      | + 1/2       | + 1/2              | + /+   | +                                     | +        | PA   | 4            | b                 |
| 2015                  | 359       | Eau de rinçage   | Process water (sprout industry)                 | St   | St             | -        | -              | -            | 0,06  | -      | -                      | -               | /  | /   | -            | NA                | -   |       |        |             |                    |  |                                       |          |      | 4            | b                 |
| 2015                  | 360       | Eau d'irrigation   | Process water (sprout industry)                 | St   | St             | St       | St             | -            | 0,054                                       | -      | St                     | St              | /  | /   | -            | NA                | -   |       |        |             |                    |  |                                       |          |      | 4            | b                 |
| 2015                  | 363       | Eau d'irrigation   | Process water (sprout industry)                 | St   | St             | St       | St             | -            | 0,053                                       | -      | St                     | St              | /  | /   | -            | NA                | -   |       |        |             |                    |  |                                       |          |      | 4            | b                 |
| 2015                  | 364       | Eau de forage  | Process water (sprout industry)                 | + p  | + p            | /        | /              | +            | 0,074                                       | -      | -                      | -               | /  | /   | -            | ND                | -   | 0,078 | -      | -           | -                  | /  | /                                     | -        | ND   | 4            | b                 |
| 2015                  | 373       | Eau de process pousses de soja   | Process water (sprout industry)                 | St   | St             | St       | -              | -            | 0,056                                       | -      | St                     | St              | /  | /   | -            | NA                | -   |       |        |             |                    |  |                                       |          |      | 4            | b                 |
| 2015                  | 592       | Eau process  | Process water (dealy salad industry)            | St   | St             | St       | -              | -            | 0,052                                       | -      | St                     | -               | /  | /   | -            | NA                | -   |       |        |             |                    |  |                                       |          |      | 4            | b                 |
| 2015                  | 1251      | Eau de rinçage mélangeur   | Process water                                   | St   | St             | + p      | + p            | +            | 2,772                                       | +      | + p                    | + p             | + /+   | +   | +            | PA                | /   | 2,447 | +      | + p         | + p                | + /+   | +                                     | +        | PA   | 4            | b                 |
| 2015                  | 1252      | Eau de rinçage cutter  | Process water                                   | + 1/2  | + m            | /        | /              | +            | 0,068                                       | -      | -                      | -               | /  | /   | -            | ND                | -   | 0,076 | -      | -           | -                  | /  | /                                     | -        | ND   | 4            | b                 |
| 2015                  | 1262      | Eau process carné  | Process water                                   | St   | -              | + p      | + p            | +            | 2,02  | +      | + M                    | -               | + /+   | +   | +            | PA                | /   | 1,780 | +      | + p         | -                  | + /+   | +                                     | +        | PA   | 4            | b                 |
| 2015                  | 1263      | Eau process carné  | Process water                                   | St   | St             | + p      | + p            | +            | 0,057                                       | -      | St                     | -               | /  | /   | -            | ND                | -   | 0,072 | -      | St          | -                  | /  | /                                     | -        | ND   | 4            | b                 |
| 2015                  | 1264      | Eau process végétaux   | Process water (vegetable industry)              | St   | St             | St       | St             | -            | 0,052                                       | -      | St                     | St              | /  | /   | -            | NA                | -   |       |        |             |                    |  |                                       |          |      | 4            | b                 |
| 2015                  | 1265      | Eau process végétaux   | Process water (vegetable industry)              | St   | St             | St       | St             | -            | 0,05  | -      | St                     | St              | /  | /   | -            | NA                | -   |       |        |             |                    |  |                                       |          |      | 4            | b                 |
| 2015                  | 1332      | Eau process végétaux   | Process water (sprout industry)                 | -  | -              | + m      | + m            | +            | 0,671                                       | +      | + md (1)<br>IMS: +m(2) | -<br>IMS: +m    | -(x1)<br>IMS: +/+  | -(x1)<br>IMS: +                               | +            | PA                | +   | 0,627 | +      | IMS: +m (5) | -<br>IMS: +m (1)   | + /+   | +                                     | +        | PA   | 4            | b                 |
| 2015                  | 1525      | Eau de process carné   | Process water (meat industry)                   | + p  | + 1/2          | /        | /              | +            | 2,361                                       | +      | + md<br>IMS: +m(1)     | + md<br>IMS: +m | -(x7)<br>IMS: +/+  | -(x7)<br>IMS: +                               | +            | PA                | /   | 2,580 | +      | IMS: +md(1) | + md<br>IMS: +m(2) | -(X5)<br>IMS: +/+  | -(X5)<br>IMS: +                       | +        | PA   | 4            | b                 |
| 2015                  | 1526      | Eau de process carné   | Process water (meat industry)                   | + p  | + M            | /        | /              | +            | 2,386                                       | +      | + p                    | + M             | + /+   | +   | +            | PA                | /   | 2,757 | +      | + p         | + M                | + /+   | +                                     | +        | PA   | 4            | b                 |
| 2019                  | 4934      | Eau de rinçage robot coupe jambon végétal (production de jambon végétal) | Rinse water (production of vegetable ham)       | st   | st             | st       | st             | -            | 0,011                                       | -      | st                     | st              | /  | /   | -            | NA                | -   |       |        |             |                    |  |                                       |          |      | 4            | b                 |
| 2019                  | 4935      | Eau de process veggie (production saucisse végétale)                     | Process water (production of vegetable sausage) | st   | st             | st       | st             | -            | 0,006                                       | -      | st                     | st              | /  | /   | -            | NA                | -   |       |        |             |                    |  |                                       |          |      | 4            | b                 |

| ENVIRONMENTAL SAMPLES |           |   |  |  |                |          |                |              |   |             |             |                |  |   |              |   |  |                         |             |                 |                |  |                                       |          |      |              |                   |
|-----------------------|-----------|---|--|--|----------------|----------|----------------|--------------|---|-------------|-------------|----------------|--|---|--------------|---|--|-------------------------|-------------|-----------------|----------------|--|---------------------------------------|----------|------|--------------|-------------------|
| Year of analysis      | Sample N° | Product (french name)                                       | Product  | Alternative method: Solus <i>E. coli</i> O157 (including <i>E. coli</i> O157:H7) |                |          |                |              |   |             |             |                |  |   |              |   |  |                         |             |                 |                |  |                                       | Category | Type |              |                   |
|                       |           |   |  | Reference method: ISO 16654*   |                |          |                |              | mTSB Novobiocin (20mg/L) for 16 h at 41.5°C |             |             |                |  |   |              | mTSB Novobiocin (20mg/L) for 16 h at 41.5°C + 72 h at 5°C ± 3°C |  |                         |             |                 |                |  |                                       |          |      |              |                   |
|                       |           |   |  | IMS 6 h  |                | IMS 24 h |                | Final Result | O.D.  | Result      | CT-SMAC     | CHROMagar O157 | Confirmation latex kit (O157 without purification step, H7 after purification) | Tests of the reference method (Latex / Indol) | Final result | Agreement Ref/Alt   | Reference method confirmatory test (IMS) | D.O.                    | Result      | CT-SMAC         | CHROMagar O157 | Confirmation latex kit (O157 without purification step, H7 after purification) | Tests of the reference method (Latex) |          |      | Final result | Agreement Ref/Alt |
|                       |           |   |  | CT-SMAC  | CHROMagar O157 | CT-SMAC  | CHROMagar O157 |              |   |             |             |                |  |   |              |   |  |                         |             |                 |                |  |                                       |          |      |              |                   |
| 2019                  | 4936      | Eau de process choux fleur caniveau (industrie de végétaux) | Process water of siphon (vegetable industry)         | st   | st             | st       | st             | -            | 0,005                                       | -           | st          | st             | /  | /   | -            | NA  | -  |                         |             |                 |                |  |                                       |          | 4    | b            |                   |
| 2015                  | 350       | Déchet poudre de lait                                       | Dusts (dairy industry)                               | St   | St             | + p      | + p            | +            | 2,609                                       | +           | + p         | + p            | +/+  | +   | +            | PA  | /  | 2,680                   | +           | + p             | + p            | +/+  | +                                     | +        | PA   | 4            | c                 |
| 2015                  | 351       | Poussières  | Dusts (dairy industry)                               | + p  | + p            | /        | /              | +            | 2,738                                       | +           | + M         | -              | +/+  | +   | +            | PA  | /  | 2,592                   | +           | + p             | + m            | +/+  | +                                     | +        | PA   | 4            | c                 |
| 2015                  | 352       | Poussières  | Dusts (dairy industry)                               | St   | St             | -        | -              | -            | 0,069                                       | -           | + 1/2       | -              | -(x5)  | -(x5)   | -            | NA  | -  |                         |             |                 |                |  |                                       |          | 4    | c            |                   |
| 2015                  | 353       | Poussières  | Dusts (dairy industry)                               | St   | St             | + m      | -              | -            | 2,693                                       | +           | -           | + m            | +/+  | +   | +            | PD  | /  | 2,536                   | +           | + m             | + m            | +/+  | +                                     | +        | PD   | 4            | c                 |
| 2015                  | 354       | Poussières  | Dusts (sprout industry)                              | + p  | + p            | /        | /              | +            | 0,056                                       | -           | St          | St             | /  | /   | -            | ND  | -  | 0,053                   | -           | St              | St             | /  | /                                     | -        | ND   | 4            | c                 |
| 2015                  | 355       | Poussières  | Dusts (sprout industry)                              | St   | St             | St       | St             | -            | 2,674                                       | +           | + p         | + p            | +/+  | +   | +            | PD  | /  | 2,561                   | +           | + p             | + p            | +/+  | +                                     | +        | PD   | 4            | c                 |
| 2015                  | 372       | Déchets végétaux préparation                                | Wastes (sprout industry)                             | -  | -              | -        | -              | -            | 0,059                                       | -           | -           | -              | /  | /   | -            | NA  | -  |                         |             |                 |                |  |                                       |          | 4    | c            |                   |
| 2015                  | 374       | Déchets végétaux conditionnement                            | Wastes (sprout industry)                             | -  | -              | -        | -              | -            | 0,059                                       | -           | -           | -              | /  | /   | -            | NA  | -  |                         |             |                 |                |  |                                       |          | 4    | c            |                   |
| 2015                  | 1259      | Chutes de viande bovine                                     | Wastes (meat industry)                               | St   | -              | + p      | + M            | +            | 2,395                                       | +           | + p         | + M            | +/+  | +   | +            | PA  | /  | 2,526                   | +           | + p             | + M            | +/+  | +                                     | +        | PA   | 4            | c                 |
| 2015                  | 1260      | Chutes de viande bovine                                     | Wastes (meat industry)                               | + M  | + M            | /        | /              | +            | 2,493                                       | +           | + p         | + M            | +/+  | +   | +            | PA  | /  | 2,420                   | +           | + p             | + M            | +/+  | +                                     | +        | PA   | 4            | c                 |
| 2015                  | 1261      | Chutes de viande bovine                                     | Wastes (meat industry)                               | -  | -              | + p      | + M            | +            | 0,379                                       | +           | + M         | + m            | +/+  | +   | +            | PA  | /  | 0,345                   | +           | + M             | + m            | +/+  | +                                     | +        | PA   | 4            | c                 |
| 2015                  | 1333      | Déchets pousse de soja                                      | Wastes (sprout industry)                             | + M  | + M            | /        | /              | +            | 0,835                                       | +           | + m         | -              | +/+  | +   | +            | PA  | /  | 1,260                   | +           | + m             | -              | +/+  | +                                     | +        | PA   | 4            | c                 |
| 2015                  | 1334      | Poussière aspirateur laiterie                               | Dusts (dairy industry)                               | + M  | -              | + M      | + M            | +            | 2,547                                       | +           | + p         | + m            | +/+  | +   | +            | PA  | /  | 2,510                   | +           | + M             | + m(1)         | +/+  | +                                     | +        | PA   | 4            | c                 |
| 2015                  | 1335      | Poussière aspirateur laiterie                               | Dusts (dairy industry)                               | + M  | -              | + M      | + m            | +            | 0,060<br>0,062<br>0,075                     | -<br>-<br>- | + m IMS: +M | - IMS: -       | -(x5) IMS: +/+   | -(x5) IMS: +                                  | -            | ND  | +  | 0,069<br>0,061<br>0,060 | -<br>-<br>- | + m (1) IMS: +m | - IMS: -       | +/+  | +                                     | -        | ND   | 4            | c                 |
| 2019                  | 4937      | Déchet fève (industrie de végétaux)                         | Waste of beans (vegetable industry)                  | st   | st             | st       | st             | -            | 0,004                                       | -           | st          | -              | /  | /   | -            | NA  | -  |                         |             |                 |                |  |                                       |          | 4    | c            |                   |
| 2019                  | 4938      | Déchet radis (production salade)                            | Waste of radish (production of RTE salad)            | st   | -              | st       | st             | -            | 0,009                                       | -           | st          | -              | /  | /   | -            | NA  | -  |                         |             |                 |                |  |                                       |          | 4    | c            |                   |
| 2019                  | 4939      | Déchet carottes (production salade)                         | Waste of carrot (production of RTE salad)            | st   | -              | st       | -              | -            | 0,045                                       | -           | -           | -              | /  | /   | -            | NA  | -  |                         |             |                 |                |  |                                       |          | 4    | c            |                   |
| 2019                  | 4940      | Déchet terrine légumes (production salade)                  | Waste of vegetable terrine (production of RTE salad) | st   | st             | st       | st             | -            | 0,009                                       | -           | st          | st             | /  | /   | -            | NA  | -  |                         |             |                 |                |  |                                       |          | 4    | c            |                   |
| 2019                  | 4941      | Déchet herbes aromatiques (industrie de végétaux)           | Waste of aromatic herbs (vegetable industry)         | -  | -              | -        | -              | -            | 0,030                                       | -           | -           | +d             | /  | /   | -            | NA  | -  |                         |             |                 |                |  |                                       |          | 4    | c            |                   |

| ENVIRONMENTAL SAMPLES |           |                                      |   |  |                |          |                |              |  |        |         |                |  |   |              |                   |  |      |          |      |        |         |                |  |                                       |              |
|-----------------------|-----------|--------------------------------------|---|--|----------------|----------|----------------|--------------|--|--------|---------|----------------|--|---|--------------|-------------------|--|------|----------|------|--------|---------|----------------|--|---------------------------------------|--------------|
| Year of analysis      | Sample N° | Product (french name)                | Product                                       | Reference method: ISO 16654 <sup>♦</sup> |                |          |                |              | Alternative method: Solus <i>E. coli</i> O157 (including <i>E. coli</i> O157:H7) |        |         |                |  |   |              |                   |  |      | Category | Type |        |         |                |  |                                       |              |
|                       |           |                                      |   | IMS 6 h                                  |                | IMS 24 h |                | Final Result | mTSB Novobiocin (20mg/L) for 16 h at 41.5°C                                      |        |         |                |  | mTSB Novobiocin (20mg/L) for 16 h at 41.5°C + 72 h at 5°C ± 3°C |              |                   |  |      |          |      |        |         |                |  |                                       |              |
|                       |           |                                      |   | CT-SMAC                                  | CHROMagar O157 | CT-SMAC  | CHROMagar O157 |              | O.D.   | Result | CT-SMAC | CHROMagar O157 | Confirmation latex kit (O157 without purification step, H7 after purification) | Tests of the reference method (Latex / Indol)                   | Final result | Agreement Ref/Alt | Reference method confirmatory test (IMS) | D.O. |          |      | Result | CT-SMAC | CHROMagar O157 | Confirmation latex kit (O157 without purification step, H7 after purification) | Tests of the reference method (Latex) | Final result |
| 2019                  | 4942      | Déchets végétaux (production salade) | Waste of vegetables (production of RTE salad) | -  | -              | -        | -              | -            | 0,094  | -      | -       | -              | -  | /   | /            | -                 | NA                                       | -    |          |      |        |         |                |  | 4                                     | c            |

| COMPOSITE FOODS AND COOKED DELI MEATS |           |  |                                      |                             |                |         |                |   |  |      |        |         |                |  |   |              |                   |  |  |        |         |                |  |                                       |          |      |              |                   |
|---------------------------------------|-----------|--|--------------------------------------|-----------------------------|----------------|---------|----------------|---|--|------|--------|---------|----------------|--|---|--------------|-------------------|--|--|--------|---------|----------------|--|---------------------------------------|----------|------|--------------|-------------------|
| Year of analysis                      | Sample N° | Product (French name)                        | Product                              | Reference method:ISO 16654♦ |                |         |                |   | Alternative method: Solus <i>E. coli</i> O157 (including <i>E. coli</i> O157:H7) |      |        |         |                |  |   |              |                   |  |  |        |         |                |  |                                       | Category | Type |              |                   |
|                                       |           |  |                                      |                             |                |         |                |   | mTSB Novobiocin (20mg/L) for 16h at 41.5°C                                       |      |        |         |                |  |   |              |                   |  | mTSB Novobiocin (20mg/L) for 16h at 41,5°C + 72 h at 5°C ± 3°C |        |         |                |  |                                       |          |      |              |                   |
|                                       |           |  |                                      | IMS 6h                      |                | IMS 24h |                |   | Final Result   | O.D. | Result | CT-SMAC | CHROMagar O157 | Confirmation latex kit (O157 without purification step, H7 after purification) | Tests of the reference method (Latex / Indol) | Final result | Agreement Ref/Alt | Reference method confirmatory test (IMS) | D.O.   | Result | CT-SMAC | CHROMagar O157 | Confirmation latex kit (O157 without purification step, H7 after purification) | Tests of the reference method (Latex) |          |      | Final result | Agreement Ref/Alt |
|                                       |           |  |                                      | CT-SMAC                     | CHROMagar O157 | CT-SMAC | CHROMagar O157 |   |  |      |        |         |                |  |   |              |                   |  |  |        |         |                |  |                                       |          |      |              |                   |
| 2022                                  | 603       | Poulet curry avec riz                        | Hot meal: curry and rice             | st                          | st             | st      | st             | - | 0,564  | +    | +p     | +p      | +/+            | +  | +   | PD           |                   | 0,719                                    | +  | +p     | +p      | +/+            | +  | +                                     | PD       | 5    | a            |                   |
| 2022                                  | 604       | Poulet curry avec riz                        | Hot meal: curry and rice             | st                          | st             | st      | st             | - | 0,009  | -    | st     | st      |                |  | -   | NA           | -                 |  |  |        |         |                |  |                                       |          | 5    | a            |                   |
| 2022                                  | 605       | Lasagnes                                     | Hot meal: lasagnes                   | +p                          | +p             | /       | /              | + | 0,698  | +    | +p     | -       | +/+            | +  | +   | PA           |                   | 0,804                                    | +  | +p     | -       | +/+            | +  | +                                     | PA       | 5    | a            |                   |
| 2022                                  | 606       | Tagliatelles carbonara                       | Hot meal: baccon pasta cream         | +p                          | +p             | /       | /              | + | 0,007  | -    | st     | st      |                |  | -   | ND           | -                 | 0,001                                    | -  | st     | st      |                |  | -                                     | ND       | 5    | a            |                   |
| 2022                                  | 607       | Tagliatelles carbonara                       | Hot meal: baccon pasta cream         | st                          | st             | st      | st             | - | 0,412  | +    | +p     | -       | +/+            | +  | +   | PD           |                   | 0,460                                    | +  | +p     | -       | +/+            | +  | +                                     | PD       | 5    | a            |                   |
| 2022                                  | 810       | Chili con carné                              | Hot meal: Chili Con Carne            | st                          | st             | st      | st             | - | 0,008  | -    | st     | st      |                |  | -   | NA           | -                 |  |  |        |         |                |  |                                       |          | 5    | a            |                   |
| 2022                                  | 811       | Chili con carné                              | Hot meal: Chili Con Carne            | st                          | st             | st      | st             | - | 0,764/   | +    | +Md    | +Md     | +/+            | +  | +   | PD           | +                 | 0,686                                    | +  | +p     | +p      | +/+            | +  | +                                     | PD       | 5    | a            |                   |
| 2022                                  | 812       | Gratin d'endives                             | Hot meal: chicory gratin             | +p                          | +(2)           | +p      | +p             | + | 1,260  | +    | +p     | +p      | +/+            | +  | +   | PA           |                   | 0,880                                    | +  | +p     | +p      | +/+            | +  | +                                     | PA       | 5    | a            |                   |
| 2022                                  | 813       | Gratin d'endives                             | Hot meal: chicory gratin             | +p                          | +p             | /       | /              | + | 0,011  | -    | st     | st      |                |  | -   | ND           | -                 | 0,001                                    | -  | st     | st      |                |  | -                                     | ND       | 5    | a            |                   |
| 2022                                  | 814       | Filet de poulet et pommes de terre cuisinées | Hot meal: chicken and potatoes       | st                          | st             | st      | st             | - | 0,000  | -    | st     | st      |                |  | -   | NA           | -                 |  |  |        |         |                |  |                                       |          | 5    | a            |                   |
| 2022                                  | 1028      | Blanquette de poulet, riz, légumes           | Hot meal: chicken, rice, vegetables  | +p                          | +p             | /       | /              | + | 1,228  | +    | +p     | +p      | +/+            | +  | +   | PA           |                   | 0,645                                    | +  | +p     | +p      | +/+            | +  | +                                     | PA       | 5    | a            |                   |
| 2022                                  | 1030      | Daube provençale au bœuf                     | Hot meal: beef, vegetables           | st                          | st             | st      | st             | - | 0,010  | -    | -      | -       |                |  | -   | NA           | st                |  |  |        |         |                |  |                                       |          | 5    | a            |                   |
| 2022                                  | 1031      | Blanquette de veau, riz                      | Hot meal: veal, rice                 | +p                          | +p             | /       | /              | + | 0,884  | +    | +p     | +p      | +/+            | +  | +   | PA           |                   | 0,706                                    | +  | +p     | +p      | +/+            | +  | +                                     | PA       | 5    | a            |                   |
| 2022                                  | 1032      | Daube provençale au bœuf                     | Hot meal: beef, vegetables           | +p                          | +p             | /       | /              | + | 1,309  | +    | +p     | +p      | +/+            | +  | +   | PA           |                   | 0,934                                    | +  | +p     | +p      | +/+            | +  | +                                     | PA       | 5    | a            |                   |
| 2022                                  | 1033      | Blanquette de veau, riz                      | Hot meal: veal, rice                 | +p                          | +p             | /       | /              | + | 1,307  | +    | +p     | +p      | +/+            | +  | +   | PA           |                   | 1,518                                    | +  | +p     | +p      | +/+            | +  | +                                     | PA       | 5    | a            |                   |
| 2022                                  | 1119      | Bœuf bourguignon et tagliatelles             | Hot meal: beef, pastas               | st                          | st             | st      | st             | - | 0,000  | -    | st     | st      |                |  | -   | NA           | -                 |  |  |        |         |                |  |                                       |          | 5    | a            |                   |
| 2022                                  | 1120      | Poulet à la crème, champignons, farfalles    | Hot meal: chicken, mushrooms, pastas | st                          | st             | st      | st             | - | 0,000  | -    | st     | st      |                |  | -   | NA           | -                 |  |  |        |         |                |  |                                       |          | 5    | a            |                   |
| 2022                                  | 1121      | Macaronis, boulette bœuf, sauce tomate       | Hot meal: beef, tomatoes, pastas     | st                          | st             | st      | st             | - | 0,000  | -    | st     | st      |                |  | -   | NA           | -                 |  |  |        |         |                |  |                                       |          | 5    | a            |                   |

♦ Analyses performed according to the COFRAC accreditation

| COMPOSITE FOODS AND COOKED DELI MEATS |           |  |                                  |                             |                |                |                |              |  |                |         |  |  |   |              |                   |  |   |              |  |  |  |                                       |              |          |      |                   |  |                                       |              |                   |
|---------------------------------------|-----------|--|----------------------------------|-----------------------------|----------------|----------------|----------------|--------------|--|----------------|---------|--|--|---|--------------|-------------------|--|---|--------------|--|--|--|---------------------------------------|--------------|----------|------|-------------------|--|---------------------------------------|--------------|-------------------|
| Year of analysis                      | Sample N° | Product (French name)                              | Product                          | Reference method:ISO 16654* |                |                |                |              | Alternative method: Solus <i>E. coli</i> O157 (including <i>E. coli</i> O157:H7) |                |         |  |  |   |              |                   |  |   |              |  |  |  |                                       |              | Category | Type |                   |  |                                       |              |                   |
|                                       |           |  |                                  | IMS 6h                      |                |                |                | IMS 24h      |  |                |         | mTSB Novobiocin (20mg/L) for 16h at 41.5°C |  |   |              |                   |  |   |              | mTSB Novobiocin (20mg/L) for 16h at 41,5°C + 72 h at 5°C ± 3°C |  |  |                                       |              |          |      |                   |  |                                       |              |                   |
|                                       |           |  |                                  | CT-SMAC                     |                | CHROMagar O157 |                | CT-SMAC      |  | CHROMagar O157 |         | Final Result                               | O.D.   | Result  | CT-SMAC      | CHROMagar O157    | Confirmation latex kit (O157 without purification step, H7 after purification) | Tests of the reference method (Latex / Indol) | Final result | Agreement Ref/Alt  | Reference method confirmatory test (IMS) | D.O.   | Result                                | CT-SMAC      |          |      | CHROMagar O157    | Confirmation latex kit (O157 without purification step, H7 after purification) | Tests of the reference method (Latex) | Final result | Agreement Ref/Alt |
|                                       |           |  |                                  | CT-SMAC                     | CHROMagar O157 | CT-SMAC        | CHROMagar O157 | Final Result | O.D.   | Result         | CT-SMAC | CHROMagar O157                             | Confirmation latex kit (O157 without purification step, H7 after purification) | Tests of the reference method (Latex / Indol) | Final result | Agreement Ref/Alt | Reference method confirmatory test (IMS)                                       | D.O.  | Result       | CT-SMAC  | CHROMagar O157                           | Confirmation latex kit (O157 without purification step, H7 after purification) | Tests of the reference method (Latex) | Final result |          |      | Agreement Ref/Alt |  |                                       |              |                   |
| 2022                                  | 1122      | Poisson à l'Andalouse, riz safrané, petits légumes | Hot meal: fish, rice, vegetables | st                          | st             | st             | st             | -            | 0,002  | -              | st      | st   |  |   | -            | NA                | -  |   |              |  |  |  |                                       |              |          |      | 5                 | a  |                                       |              |                   |
| 2022                                  | 1123      | Cabillaud sauce citron, riz, petits légumes        | Hot meal: fish, rice, vegetables | st                          | st             | st             | st             | -            | 0,000  | -              | st      | st   |  |   | -            | NA                | -  |   |              |  |  |  |                                       |              |          |      | 5                 | a  |                                       |              |                   |
| 2022                                  | 608       | Sandwich jambon beurre                             | RTE: sandwich (ham)              | -                           | -              | -              | -              | -            | 0,012  | -              | -       | -  |  |   | -            | NA                | -  |   |              |  |  |  |                                       |              |          |      | 5                 | b  |                                       |              |                   |
| 2022                                  | 609       | Croque-Monsieur à poêler                           | RTRH: Croque Monsieur            | +p                          | +p             | /              | /              | +            | 0,958  | +              | +p      | +p   | +/+  | +   | +            | PA                | -  | 0,298   | +            | +p   | +p                                       | +/+  | +                                     | +            | +        | PA   | 5                 | b  |                                       |              |                   |
| 2022                                  | 610       | Croque-Monsieur à poêler                           | RTRH: Croque Monsieur            | +p                          | +p             | /              | /              | +            | 0,017  | -              | st      | st   |  |   | -            | ND                | -  | 0,017   | -            | st   | st                                       |  |                                       |              |          | -    | ND                | 5  | b                                     |              |                   |
| 2022                                  | 611       | Tarte aux poireaux                                 | RTRH: leek pie                   | +p                          | +p             | /              | /              | +            | 1,103  | +              | +p      | -  | +/+  | +   | +            | PA                | -  | 1,327   | +            | +p   | -  | +/+  | +                                     | +            | +        | PA   | 5                 | b  |                                       |              |                   |
| 2022                                  | 612       | Tarte aux poireaux                                 | RTRH: leek pie                   | +p                          | +p             | /              | /              | +            | 1,004  | +              | +p      | -  | +/+  | +   | +            | PA                | -  | 1,293   | +            | +p   | +p                                       | +/+  | +                                     | +            | +        | PA   | 5                 | b  |                                       |              |                   |
| 2022                                  | 815       | Sandwich jambon emmenthal                          | RTE: sandwich (ham and cheese)   | st                          | st             | st             | st             | -            | 0,009  | -              | -       | -  |  |   | -            | NA                | -  |   |              |  |  |  |                                       |              |          |      | 5                 | b  |                                       |              |                   |
| 2022                                  | 816       | Sandwich jambon emmenthal                          | RTE: sandwich (ham and cheese)   | +(3)                        | +(3)           | +p             | +p             | +            | 0,773  | +              | +p      | +p   | +/+  | +   | +            | PA                | -  | 0,957   | +            | +p   | +p                                       | +/+  | +                                     | +            | +        | PA   | 5                 | b  |                                       |              |                   |
| 2022                                  | 817       | Quiche Lorraine                                    | RTRH: Quiche Lorraine            | st                          | st             | st             | st             | -            | 0,060  | -              | st      | st   |  |   | -            | NA                | -  |   |              |  |  |  |                                       |              |          |      | 5                 | b  |                                       |              |                   |
| 2022                                  | 818       | Quiche Lorraine                                    | RTRH: Quiche Lorraine            | +(5)                        | +(1)           | +p             | +p             | +            | 0,011  | -              | st      | st   |  |   | -            | ND                | -  | 0,006   | -            | -  | st                                       | st   |                                       |              |          | -    | ND                | 5  | b                                     |              |                   |
| 2022                                  | 819       | Salade pâtes poulet œuf                            | RTE: salad pasta chicken eggs    | +p                          | +(3)           | /              | /              | +            | 0,047/<br>0,128/<br>0,126  | -/-<br>-/-     | -       | -  |  |   | -            | ND                | +  | 0,274   | +            | -  | +m                                       | +/+  | +                                     | +            | +        | PA   | 5                 | b  |                                       |              |                   |
| 2022                                  | 1029      | Tarte aux poireaux                                 | RTRH: leek pies                  | st                          | st             | st             | st             | -            | 0,694  | +              | +p      | +p   | +/+  | +   | +            | PD                | -  | 0,775   | +            | +p   | +p                                       | +/+  | +                                     | +            | +        | PD   | 5                 | b  |                                       |              |                   |
| 2022                                  | 1046      | Mini saucisses nature                              | RTE; sausages rolls              | st                          | st             | st             | st             | -            | 0,003  | -              | st      | st   |  |   | -            | NA                | st   |   |              |  |  |  |                                       |              |          |      | 5                 | b  |                                       |              |                   |
| 2022                                  | 1047      | Mini saucisses moutarde pavot                      | RTE: sausages rolls              | st                          | st             | st             | st             | -            | 0,007  | -              | st      | st   |  |   | -            | NA                | st   |   |              |  |  |  |                                       |              |          |      | 5                 | b  |                                       |              |                   |
| 2022                                  | 1048      | Tarte tomate parmesan                              | RTRH: tomatoes, cheese pie       | st                          | st             | st             | st             | -            | 0,003  | -              | st      | st   |  |   | -            | NA                | st   |   |              |  |  |  |                                       |              |          |      | 5                 | b  |                                       |              |                   |
| 2022                                  | 1049      | Tarte aux poireaux                                 | RTRH: leek pies                  | st                          | st             | st             | st             | -            | 0,002  | -              | st      | st   |  |   | -            | NA                | st   |   |              |  |  |  |                                       |              |          |      | 5                 | b  |                                       |              |                   |
| 2022                                  | 1124      | Quiche Lorraine lardons fumés                      | RTRH: Quiche Lorraine            | st                          | st             | st             | st             | -            | 0,013  | -              | st      | st   |  |   | -            | NA                | -  |   |              |  |  |  |                                       |              |          |      | 5                 | b  |                                       |              |                   |
| 2022                                  | 1125      | Tarte aux poireaux emmenthal                       | RTRH: cheese & leek pie          | st                          | st             | st             | st             | -            | 0,000  | -              | st      | st   |  |   | -            | NA                | -  |   |              |  |  |  |                                       |              |          |      | 5                 | b  |                                       |              |                   |

| COMPOSITE FOODS AND COOKED DELI MEATS |           |                           |                                |                             |                |         |                |   |  |      |        |         |                |  |   |              |                   |  |  |        |         |                |  |          |      |                                       |              |                   |
|---------------------------------------|-----------|---------------------------|--------------------------------|-----------------------------|----------------|---------|----------------|---|--|------|--------|---------|----------------|--|---|--------------|-------------------|--|--|--------|---------|----------------|--|----------|------|---------------------------------------|--------------|-------------------|
| Year of analysis                      | Sample N° | Product (French name)     | Product                        | Reference method:ISO 16654* |                |         |                |   | Alternative method: Solus <i>E. coli</i> O157 (including <i>E. coli</i> O157:H7) |      |        |         |                |  |   |              |                   |  |  |        |         |                |  | Category | Type |                                       |              |                   |
|                                       |           |                           |                                |                             |                |         |                |   | mTSB Novobiocin (20mg/L) for 16h at 41.5°C                                       |      |        |         |                |  |   |              |                   |  | mTSB Novobiocin (20mg/L) for 16h at 41,5°C + 72 h at 5°C ± 3°C |        |         |                |  |          |      |                                       |              |                   |
|                                       |           |                           |                                | IMS 6h                      |                | IMS 24h |                |   | Final Result   | O.D. | Result | CT-SMAC | CHROMagar O157 | Confirmation latex kit (O157 without purification step, H7 after purification) | Tests of the reference method (Latex / Indol) | Final result | Agreement Ref/Alt | Reference method confirmatory test (IMS) | D.O.   | Result | CT-SMAC | CHROMagar O157 | Confirmation latex kit (O157 without purification step, H7 after purification) |          |      | Tests of the reference method (Latex) | Final result | Agreement Ref/Alt |
|                                       |           |                           |                                | CT-SMAC                     | CHROMagar O157 | CT-SMAC | CHROMagar O157 |   |  |      |        |         |                |  |   |              |                   |  |  |        |         |                |  |          |      |                                       |              |                   |
| 2022                                  | 1126      | Sandwich poulet roti      | RTE: sandwich chicken          | st                          | st             | st      | st             | - | 0,000  | -    | st     | st      |                |  | -   | NA           | -                 |  |  |        |         |                |  |          |      | 5                                     | b            |                   |
| 2022                                  | 1127      | Sandwich jambon cheddar   | RTE: sandwich ham, cheese      | st                          | st             | st      | st             | - | 0,004  | -    | -      | -       |                |  | -   | NA           | -                 |  |  |        |         |                |  |          |      | 5                                     | b            |                   |
| 2022                                  | 1128      | Sandwich rosette          | RTE: sandwich pork             | st                          | st             | st      | st             | - | 0,000  | -    | st     | st      |                |  | -   | NA           | -                 |  |  |        |         |                |  |          |      | 5                                     | b            |                   |
| 2022                                  | 1363      | Sandwich jambon emmenthal | RTE: sandwich (ham and cheese) | st                          | st             | -       | -              | - | 0,004  | -    | -      | -       |                |  | -   | NA           | -                 |  |  |        |         |                |  |          |      | 5                                     | b            |                   |
| 2022                                  | 1364      | Sandwich jambon cheddar   | RTE: sandwich (ham and cheese) | st                          | st             | st      | st             | - | 0,002  | -    | st     | st      |                |  | -   | NA           | -                 |  |  |        |         |                |  |          |      | 5                                     | b            |                   |
| 2022                                  | 1420      | Sandwich jambon beurre    | RTE: sandwich (ham and butter) | +p                          | +p             | /       | /              | + | 0,475  | +    | +M     | +1/2    | +/+            | +  | +   | PA           |                   | 0,412                                    | +  | +M     | +1/2    | +/+            | +  | +        | PA   | 5                                     | b            |                   |
| 2022                                  | 1421      | Sandwich jambon beurre    | RTE: sandwich (ham and butter) | st                          | st             | -       | -              | - | 0,492  | +    | +M     | +1/2    | +/+            | +  | +   | PD           |                   | 0,663                                    | +  | +M     | +1/2    | +/+            | +  | +        | PD   | 5                                     | b            |                   |
| 2022                                  | 613       | Jambon de poulet cuit     | Cooked chicken meat            | st                          | st             | st      | st             | - | 0,015  | -    | st     | -       |                |  | -   | NA           | -                 |  |  |        |         |                |  |          |      | 5                                     | c            |                   |
| 2022                                  | 614       | Roti de bœuf cuit         | Cooked beef meat               | st                          | st             | st      | st             | - | 0,007  | -    | st     | st      |                |  | -   | NA           | -                 |  |  |        |         |                |  |          |      | 5                                     | c            |                   |
| 2022                                  | 615       | Roti de bœuf cuit         | Cooked beef meat               | st                          | st             | st      | st             | - | 0,667  | +    | +p     | +p      | +/+            | +  | +   | PD           |                   | 0,705                                    | +  | +p     | +p      | +/+            | +  | +        | PD   | 5                                     | c            |                   |
| 2022                                  | 616       | Jambon de porc            | Cooked pork meat               | st                          | st             | st      | st             | - | 0,012  | -    | st     | st      |                |  | -   | NA           | -                 |  |  |        |         |                |  |          |      | 5                                     | c            |                   |
| 2022                                  | 617       | Jambon de porc            | Cooked pork meat               | st                          | st             | st      | st             | - | 0,015  | -    | st     | st      |                |  | -   | NA           | -                 |  |  |        |         |                |  |          |      | 5                                     | c            |                   |
| 2022                                  | 820       | Roti de bœuf cuit         | Cooked beef meat               | st                          | st             | st      | st             | - | 0,005  | -    | st     | st      |                |  | -   | NA           | -                 |  |  |        |         |                |  |          |      | 5                                     | c            |                   |
| 2022                                  | 821       | Roti de bœuf cuit         | Cooked beef meat               | +(1)                        | +(2)           | +p      | +p             | + | 0,002  | -    | st     | st      |                |  | -   | ND           | -                 | 0,025                                    | -  | st     | st      |                |  | -        | ND   | 5                                     | c            |                   |
| 2022                                  | 822       | Roti de porc              | Cooked pork meat               | st                          | st             | -       | -              | - | 0,007  | -    | st     | st      |                |  | -   | NA           | -                 |  |  |        |         |                |  |          |      | 5                                     | c            |                   |
| 2022                                  | 823       | Roti de porc              | Cooked pork meat               | +p                          | +p             | +p      | +p             | + | 1,261  | +    | +p     | +p      | +/+            | +  | +   | PA           |                   | 1,264                                    | +  | +p     | +p      | +/+            | +  | +        | PA   | 5                                     | c            |                   |
| 2022                                  | 824       | Roti de poulet            | Cooked chicken meat            | st                          | st             | st      | st             | - | 0,013  | -    | st     | st      |                |  | -   | NA           | -                 |  |  |        |         |                |  |          |      | 5                                     | c            |                   |
| 2022                                  | 1034      | Roti de poulet            | Cooked chicken meat            | st                          | st             | st      | st             | - | 0,008  | -    | st     | st      |                |  | -   | NA           | st                |  |  |        |         |                |  |          |      | 5                                     | c            |                   |
| 2022                                  | 1035      | Blanc de poulet           | Cooked chicken meat            | st                          | st             | st      | st             | - | 0,009  | -    | st     | st      |                |  | -   | NA           | st                |  |  |        |         |                |  |          |      | 5                                     | c            |                   |
| 2022                                  | 1036      | Roti de poulet            | Cooked chicken meat            | +p                          | +p             | /       | /              | + | 0,015  | -    | st     | st      |                |  | -   | ND           | st                | 0,014                                    | -  | st     | st      |                |  | -        | ND   | 5                                     | c            |                   |
| 2022                                  | 1037      | Blanc de poulet           | Cooked chicken meat            | st                          | st             | -       | -              | - | 0,010  | -    | st     | st      |                |  | -   | NA           | st                |  |  |        |         |                |  |          |      | 5                                     | c            |                   |
| 2022                                  | 1038      | Jambon cuit               | Cooked pork meat               | +p                          | +p             | /       | /              | + | 1,010  | +    | +p     | +p      | +/+            | +  | +   | PA           |                   | 1,027                                    | +  | +p     | +p      | +/+            | +  | +        | PA   | 5                                     | c            |                   |
| 2022                                  | 1039      | Jambon cuit               | Cooked pork meat               | st                          | st             | -       | -              | - | 1,330  | +    | +p     | +M      | +/+            | +  | +   | PD           |                   | 1,129                                    | +  | +p     | +M      | +/+            | +  | +        | PD   | 5                                     | c            |                   |
| 2022                                  | 1040      | Roti de bœuf doré au four | Cooked beef meat               | st                          | st             | st      | st             | - | 0,015  | -    | -      | -       |                |  | -   | NA           | st                |  |  |        |         |                |  |          |      | 5                                     | c            |                   |

| COMPOSITE FOODS AND COOKED DELI MEATS |           |                           |                     |                             |                |         |                |      |  |  |         |                |  |   |              |                   |  |  |        |         |                |  |                                       |          |      |              |                   |
|---------------------------------------|-----------|---------------------------|---------------------|-----------------------------|----------------|---------|----------------|------|--|--|---------|----------------|--|---|--------------|-------------------|--|--|--------|---------|----------------|--|---------------------------------------|----------|------|--------------|-------------------|
| Year of analysis                      | Sample N° | Product (French name)     | Product             | Reference method:ISO 16654* |                |         |                |      | Alternative method: Solus <i>E. coli</i> O157 (including <i>E. coli</i> O157:H7) |  |         |                |  |   |              |                   |  |  |        |         |                |  |                                       | Category | Type |              |                   |
|                                       |           |                           |                     | IMS 6h                      |                | IMS 24h |                |      | Final Result   | mTSB Novobiocin (20mg/L) for 16h at 41.5°C |         |                |  |   |              |                   |  | mTSB Novobiocin (20mg/L) for 16h at 41,5°C + 72 h at 5°C ± 3°C |        |         |                |  |                                       |          |      |              |                   |
|                                       |           |                           |                     | CT-SMAC                     | CHROMagar O157 | CT-SMAC | CHROMagar O157 | O.D. |  | Result                                     | CT-SMAC | CHROMagar O157 | Confirmation latex kit (O157 without purification step, H7 after purification) | Tests of the reference method (Latex / Indol) | Final result | Agreement Ref/Alt | Reference method confirmatory test (IMS) | D.O.   | Result | CT-SMAC | CHROMagar O157 | Confirmation latex kit (O157 without purification step, H7 after purification) | Tests of the reference method (Latex) |          |      | Final result | Agreement Ref/Alt |
|                                       |           |                           |                     |                             |                |         |                |      |  |  |         |                |  |   |              |                   |  |  |        |         |                |  |                                       |          |      |              |                   |
| 2022                                  | 1041      | Roti de bœuf doré au four | Cooked beef meat    | +p                          | +p             | /       | /              | +    | 1,115  | +  | +m      | +m             | +/+  | +   | +            | PA                |  | 1,042  | +      | +m      | +m             | +/+  | +                                     | +        | PA   | 5            | c                 |
| 2022                                  | 1132      | Rosbeef cuit              | Cooked beef meat    | st                          | st             | -       | -              | -    | 1,433  | +  | +m      | +m             | +/+  | +   | +            | PD                |  | 1,199  | +      | +m      | +m             | +/+  | +                                     | +        | PD   | 5            | c                 |
| 2022                                  | 1133      | Roi de bœuf               | Cooked beef meat    | st                          | st             | st      | st             | -    | 0,755  | +  | +M      | +M             | +/+  | +   | +            | PD                |  | 0,567  | +      | +M      | +p             | +/+  | +                                     | +        | PD   | 5            | c                 |
| 2022                                  | 1134      | Roti de bœuf              | Cooked beef meat    | st                          | st             | +M      | +M             | +    | 0,770  | +  | +M      | +M             | +/+  | +   | +            | PA                |  | 0,644  | +      | +M      | +p             | +/+  | +                                     | +        | PA   | 5            | c                 |
| 2022                                  | 1135      | Blanc de poulet           | Cooked chicken meat | st                          | st             | st      | st             | -    | 0,005  | -  | -       | -              |  |   | -            | NA                | -  |  |        |         |                |  |                                       |          |      | 5            | c                 |
| 2022                                  | 1136      | Blanc de poulet           | Cooked chicken meat | st                          | st             | st      | st             | -    | 0,861  | +  | +M      | +M             | +/+  | +   | +            | PD                |  | 0,745  | +      | +p      | +p             | +/+  | +                                     | +        | PD   | 5            | c                 |
| 2022                                  | 1142      | Blanc de poulet           | Cooked chicken meat | st                          | st             | st      | st             | -    | 0,005  | -  | st      | st             |  |   | -            | NA                | -  |  |        |         |                |  |                                       |          |      | 5            | c                 |

| PASTEURIZED MILK AND DAIRY PRODUCTS |           |  |                       |                              |                |         |                |   |  |      |        |         |                |  |   |              |                   |  |  |        |         |                |  |                                       |          |      |              |                   |
|-------------------------------------|-----------|--|-----------------------|------------------------------|----------------|---------|----------------|---|--|------|--------|---------|----------------|--|---|--------------|-------------------|--|--|--------|---------|----------------|--|---------------------------------------|----------|------|--------------|-------------------|
| Year of analysis                    | Sample N° | Product (French name)                      | Product               | Reference method: ISO 16654♦ |                |         |                |   | Alternative method: Solus <i>E. coli</i> O157 (including <i>E. coli</i> O157:H7) |      |        |         |                |  |   |              |                   |  |  |        |         |                |  |                                       | Category | Type |              |                   |
|                                     |           |  |                       |                              |                |         |                |   | mTSB Novobiocin (20mg/L) for 16h at 41.5°C                                       |      |        |         |                |  |   |              |                   |  | mTSB Novobiocin (20mg/L) for 16h at 41,5°C + 72 h at 5°C ± 3°C |        |         |                |  |                                       |          |      |              |                   |
|                                     |           |  |                       | IMS 6h                       |                | IMS 24h |                |   | Final Result   | O.D. | Result | CT-SMAC | CHROMagar O157 | Confirmation latex kit (O157 without purification step, H7 after purification) | Tests of the reference method (Latex / Indol) | Final result | Agreement Ref/Alt | Reference method confirmatory test (IMS) | D.O.   | Result | CT-SMAC | CHROMagar O157 | Confirmation latex kit (O157 without purification step, H7 after purification) | Tests of the reference method (Latex) |          |      | Final result | Agreement Ref/Alt |
|                                     |           |  |                       | CT-SMAC                      | CHROMagar O157 | CT-SMAC | CHROMagar O157 |   |  |      |        |         |                |  |   |              |                   |  |  |        |         |                |  |                                       |          |      |              |                   |
| 2022                                | 620       | Lait pasteurisé de brebis                  | Pasteurized ewe milk  | st                           | st             | st      | st             | - | 0,539  | +    | +p     | +p      | +/+            | +  | +   | PD           |                   | 0,429                                    | +  | +p     | +p      | +/+            | +  | +                                     | PD       | 6    | a            |                   |
| 2022                                | 621       | Lait pasteurisé de brebis                  | Pasteurized ewe milk  | +p                           | +p             | /       | /              | + | 0,541  | +    | +p     | +p      | +/+            | +  | +   | PA           |                   | 0,592                                    | +  | +p     | +p      | +/+            | +  | +                                     | PA       | 6    | a            |                   |
| 2022                                | 622       | Lait pasteurisé de vache                   | Pasteurized cow milk  | st                           | st             | st      | st             | - | 1,418  | +    | +p     | +p      | +/+            | +  | +   | PD           |                   | 1,225                                    | +  | +p     | +p      | +/+            | +  | +                                     | PD       | 6    | a            |                   |
| 2022                                | 828       | Lait frais pasteurisé de vache             | Pasteurized cow milk  | +p                           | +p             | /       | /              | + | 0,000  | -    | st     | st      |                |  | -   | ND           | -                 | 0,000                                    | -  | st     | st      |                |  | -                                     | ND       | 6    | a            |                   |
| 2022                                | 829       | Lait frais pasteurisé de chèvre            | Pasteurized goat milk | +p                           | +p             | /       | /              | + | 0,835  | +    | +p     | +p      | +/+            | +  | +   | PA           |                   | 1,048                                    | +  | +p     | +p      | +/+            | +  | +                                     | PA       | 6    | a            |                   |
| 2022                                | 858       | Lait frais 1/2 écrémé pasteurisé de vache  | Pasteurized cow milk  | st                           | st             | st      | st             | - | 1,294  | +    | +M     | +M      | +/+            | +  | +   | PD           |                   | 1,421                                    | +  | +p     | +p      | +/+            | +  | +                                     | PD       | 6    | a            |                   |
| 2022                                | 859       | Lait frais 1/2 écrémé pasteurisé de vache  | Pasteurized cow milk  | st                           | st             | st      | st             | - | 0,439  | +    | +M     | +M      | +/+            | +  | +   | PD           |                   | 0,313                                    | +  | +p     | +p      | +/+            | +  | +                                     | PD       | 6    | a            |                   |
| 2022                                | 860       | Lait frais 1/2 écrémé pasteurisé de brebis | Pasteurized ewe milk  | st                           | st             | st      | st             | - | 0,006  | -    | st     | st      |                |  | -   | NA           | -                 |  |  |        |         |                |  |                                       |          | 6    | a            |                   |
| 2022                                | 861       | Lait frais entier pasteurisé de chèvre     | Pasteurized goat milk | st                           | st             | st      | st             | - | 0,020  | -    | st     | st      |                |  | -   | NA           | -                 |  |  |        |         |                |  |                                       |          | 6    | a            |                   |
| 2022                                | 862       | Lait frais entier pasteurisé de vache      | Pasteurized cow milk  | st                           | st             | st      | st             | - | 0,017  | -    | st     | st      |                |  | -   | NA           | -                 |  |  |        |         |                |  |                                       |          | 6    | a            |                   |
| 2022                                | 870       | Lait 1/2 écrémé pasteurisé de vache        | Pasteurized cow milk  | st                           | st             | st      | st             | - | 0,031  | -    | -      | -       |                |  | -   | NA           | -                 |  |  |        |         |                |  |                                       |          | 6    | a            |                   |
| 2022                                | 871       | Lait frais 1/2 écrémé pasteurisé de vache  | Pasteurized cow milk  | st                           | st             | st      | st             | - | 0,018  | -    | st     | st      |                |  | -   | NA           | -                 |  |  |        |         |                |  |                                       |          | 6    | a            |                   |
| 2022                                | 872       | Lait frais 1/2 écrémé pasteurisé de brebis | Pasteurized ewe milk  | st                           | st             | st      | st             | - | 0,000  | -    | st     | st      |                |  | -   | NA           | -                 |  |  |        |         |                |  |                                       |          | 6    | a            |                   |
| 2022                                | 873       | Lait frais entier pasteurisé de chèvre     | Pasteurized goat milk | st                           | st             | st      | st             | - | 0,005  | -    | st     | st      |                |  | -   | NA           | -                 |  |  |        |         |                |  |                                       |          | 6    | a            |                   |

♦ Analyses performed according to the COFRAC accreditation

| PASTEURIZED MILK AND DAIRY PRODUCTS |           |                                       |                              |                              |                |                |                |   |  |      |        |         |                |  |   |              |                   |  |  |        |         |                |  |                                       |          |      |              |                   |   |
|-------------------------------------|-----------|---------------------------------------|------------------------------|------------------------------|----------------|----------------|----------------|---|--|------|--------|---------|----------------|--|---|--------------|-------------------|--|--|--------|---------|----------------|--|---------------------------------------|----------|------|--------------|-------------------|---|
| Year of analysis                    | Sample N° | Product (French name)                 | Product                      | Reference method: ISO 16654* |                |                |                |   | Alternative method: Solus <i>E. coli</i> O157 (including <i>E. coli</i> O157:H7) |      |        |         |                |  |   |              |                   |  |  |        |         |                |  |                                       | Category | Type |              |                   |   |
|                                     |           |                                       |                              |                              |                |                |                |   | mTSB Novobiocin (20mg/L) for 16h at 41.5°C                                       |      |        |         |                |  |   |              |                   |  | mTSB Novobiocin (20mg/L) for 16h at 41,5°C + 72 h at 5°C ± 3°C |        |         |                |  |                                       |          |      |              |                   |   |
|                                     |           |                                       |                              | IMS 6h                       |                | IMS 24h        |                |   | Final Result   | O.D. | Result | CT-SMAC | CHROMagar O157 | Confirmation latex kit (O157 without purification step, H7 after purification) | Tests of the reference method (Latex / Indol) | Final result | Agreement Ref/Alt | Reference method confirmatory test (IMS) | D.O.   | Result | CT-SMAC | CHROMagar O157 | Confirmation latex kit (O157 without purification step, H7 after purification) | Tests of the reference method (Latex) |          |      | Final result | Agreement Ref/Alt |   |
|                                     |           |                                       |                              | CT-SMAC                      | CHROMagar O157 | CT-SMAC        | CHROMagar O157 |   |  |      |        |         |                |  |   |              |                   |  |  |        |         |                |  |                                       |          |      |              |                   |   |
| 2022                                | 874       | Lait frais entier pasteurisé de vache | Pasteurized cow milk         | st                           | st             | st             | st             | - | 0,003  | -    | st     | st      |                |  | -   | NA           | -                 |  |  |        |         |                |  |                                       |          |      | 6            | a                 |   |
| 2022                                | 1102      | Lait pasteurisé de vache              | Pasteurized cow milk         | st                           | st             | +p             | +p             | + | 0,558  | +    | +p     | +p      | +/+            | +  | +   | PA           |                   | 0,590                                    | +  | +p     | +p      | +/+            | +  | +                                     | +        | PA   | 6            | a                 |   |
| 2022                                | 1103      | Lait pasteurisé de vache              | Pasteurized cow milk         | +(7)                         | +(8)           | /              | /              | + | 0,484  | +    | +p     | +p      | +/+            | +  | +   | PA           |                   | 0,385                                    | +  | +p     | +p      | +/+            | +  | +                                     | +        | PA   | 6            | a                 |   |
| 2022                                | 1104      | Lait demi écrémé pasteurisé de vache  | Pasteurized cow milk         | st                           | st             | +m(auto agg +) | -              | - | 1,217  | +    | +1/2   | +md     | +/+            | +  | +   | PD           |                   | 1,308                                    | +  | -      | +m      | +/+            | +  | +                                     | +        | PD   | 6            | a                 |   |
| 2022                                | 1105      | Lait demi écrémé pasteurisé de vache  | Pasteurized cow milk         | +(7)d (auto-agg +)           | -              | -              | -              | - | 0,023  | -    | +1/2d  | -       |                |  | -   | NA           | -                 | 0,017                                    | -  | -      | -       |                |  |                                       |          | -    | NA           | 6                 | a |
| 2022                                | 1106      | Lait pasteurisé de chèvre             | Pasteurized goat milk        | st                           | st             | +p             | +p             | + | 1,446  | +    | +p     | +p      | +/+            | +  | +   | PA           |                   | 0,858                                    | +  | +p     | +p      | +/+            | +  | +                                     | +        | PA   | 6            | a                 |   |
| 2022                                | 1107      | Lait pasteurisé de chèvre             | Pasteurized goat milk        | +(4)                         | +(3)           | /              | /              | + | 0,795  | +    | +p     | +p      | +/+            | +  | +   | PA           |                   | 0,988                                    | +  | +p     | +p      | +/+            | +  | +                                     | +        | PA   | 6            | a                 |   |
| 2022                                | 1108      | Lait pasteurisé de brebis             | Pasteurized ewe milk         | +(4)                         | +(2)           | /              | /              | + | 0,561  | +    | +p     | +p      | +/+            | +  | +   | PA           |                   | 0,372                                    | +  | +p     | +p      | +/+            | +  | +                                     | +        | PA   | 6            | a                 |   |
| 2022                                | 1109      | Lait pasteurisé de brebis             | Pasteurized ewe milk         | st                           | st             | +p             | +p             | + | 0,521  | +    | +p     | +p      | +/+            | +  | +   | PA           |                   | 0,313                                    | +  | +p     | +p      | +/+            | +  | +                                     | +        | PA   | 6            | a                 |   |
| 2022                                | 1147      | Lait pasteurisé entier de vache       | Pasteurized cow milk         | st                           | st             | -              | -              | - | 0,001  | -    | -      | -       |                |  | -   | NA           | -                 |  |  |        |         |                |  |                                       |          |      | 6            | a                 |   |
| 2022                                | 1148      | Lait pasteurisé demi-écrémé de vache  | Pasteurized cow milk         | st                           | st             | st             | st             | - | 0,004  | -    | st     | st      |                |  | -   | NA           | -                 |  |  |        |         |                |  |                                       |          |      | 6            | a                 |   |
| 2022                                | 1149      | Lait pasteurisé demi-écrémé de vache  | Pasteurized cow milk         | st                           | st             | st             | st             | - | 0,005  | -    | st     | st      |                |  | -   | NA           | -                 |  |  |        |         |                |  |                                       |          |      | 6            | a                 |   |
| 2022                                | 1150      | Lait frais de brebis                  | Pasteurized cow milk         | st                           | st             | st             | st             | - | 0,006  | -    | st     | st      |                |  | -   | NA           | -                 |  |  |        |         |                |  |                                       |          |      | 6            | a                 |   |
| 2022                                | 1151      | Lait frais de brebis                  | Pasteurized cow milk         | st                           | st             | st             | st             | - | 0,021  | -    | st     | st      |                |  | -   | NA           | -                 |  |  |        |         |                |  |                                       |          |      | 6            | a                 |   |
| 2022                                | 1152      | Lait frais de chèvre                  | Pasteurized goat milk        | st                           | st             | st             | st             | - | 0,007  | -    | st     | st      |                |  | -   | NA           | -                 |  |  |        |         |                |  |                                       |          |      | 6            | a                 |   |
| 2022                                | 1153      | Lait frais de chèvre                  | Pasteurized goat milk        | st                           | st             | st             | st             | - | 0,003  | -    | st     | st      |                |  | -   | NA           | -                 |  |  |        |         |                |  |                                       |          |      | 6            | a                 |   |
| 2022                                | 618       | Camembert pasteurisé                  | Pasteurized cow milk cheese  | st                           | st             | st             | st             | - | 0,020  | -    | st     | st      |                |  | -   | NA           | -                 |  |  |        |         |                |  |                                       |          |      | 6            | b                 |   |
| 2022                                | 619       | Emmental pasteurisé                   | Pasteurized cow milk cheese  | st                           | st             | st             | st             | - | 0,012  | -    | st     | -       |                |  | -   | NA           | -                 |  |  |        |         |                |  |                                       |          |      | 6            | b                 |   |
| 2022                                | 825       | Bûche de chèvre pasteurisée           | Pasteurized goat milk cheese | +p                           | +p             | /              | /              | + | 0,910  | +    | +p     | +p      | +/+            | +  | +   | PA           |                   | 0,930                                    | +  | +p     | +p      | +/+            | +  | +                                     | +        | PA   | 6            | b                 |   |

| PASTEURIZED MILK AND DAIRY PRODUCTS |           |  |                              |                              |                |         |                |   |  |      |        |         |                |  |   |              |                   |  |  |        |         |                |  |          |      |                                       |              |                   |
|-------------------------------------|-----------|--|------------------------------|------------------------------|----------------|---------|----------------|---|--|------|--------|---------|----------------|--|---|--------------|-------------------|--|--|--------|---------|----------------|--|----------|------|---------------------------------------|--------------|-------------------|
| Year of analysis                    | Sample N° | Product (French name)                    | Product                      | Reference method: ISO 16654* |                |         |                |   | Alternative method: Solus <i>E. coli</i> O157 (including <i>E. coli</i> O157:H7) |      |        |         |                |  |   |              |                   |  |  |        |         |                |  | Category | Type |                                       |              |                   |
|                                     |           |  |                              |                              |                |         |                |   | mTSB Novobiocin (20mg/L) for 16h at 41.5°C                                       |      |        |         |                |  |   |              |                   |  | mTSB Novobiocin (20mg/L) for 16h at 41,5°C + 72 h at 5°C ± 3°C |        |         |                |  |          |      |                                       |              |                   |
|                                     |           |  |                              | IMS 6h                       |                | IMS 24h |                |   | Final Result   | O.D. | Result | CT-SMAC | CHROMagar O157 | Confirmation latex kit (O157 without purification step, H7 after purification) | Tests of the reference method (Latex / Indol) | Final result | Agreement Ref/Alt | Reference method confirmatory test (IMS) | D.O.   | Result | CT-SMAC | CHROMagar O157 | Confirmation latex kit (O157 without purification step, H7 after purification) |          |      | Tests of the reference method (Latex) | Final result | Agreement Ref/Alt |
|                                     |           |  |                              | CT-SMAC                      | CHROMagar O157 | CT-SMAC | CHROMagar O157 |   |  |      |        |         |                |  |   |              |                   |  |  |        |         |                |  |          |      |                                       |              |                   |
| 2022                                | 826       | Fromage de brebis pasteurisée            | Pasteurized ewe milk cheese  | st                           | st             | -       | -              | - | 0,001  | -    | -      | -       |                |  | -   | NA           | -                 |  |  |        |         |                |  |          |      | 6                                     | b            |                   |
| 2022                                | 827       | Brie au lait de vache pasteurisé         | Pasteurized cow milk cheese  | st                           | st             | -       | -              | - | 0,907  | +    | +p     | +p      | +/+            | +  | +   | PD           |                   | 1,036                                    | +  | +p     | +p      | +/+            | +  | +        | +    | PD                                    | 6            | b                 |
| 2022                                | 853       | Bleu au lait de vache pasteurisé         | Pasteurized cow milk cheese  | +p                           | +p             | /       | /              | + | 0,017  | -    | st     | st      |                |  | -   | ND           | -                 | 0,012                                    | -  | st     | st      |                |  | -        | ND   | 6                                     | b            |                   |
| 2022                                | 854       | Crottin de chèvre au lait pasteurisé     | Pasteurized goat milk cheese | +p                           | +p             | /       | /              | + | 0,648  | +    | +p     | +p      | +/+            | +  | +   | PA           |                   | 0,841                                    | +  | +p     | +p      | +/+            | +  | +        | +    | PA                                    | 6            | b                 |
| 2022                                | 855       | Langres au lait de vache pasteurisé      | Pasteurized cow milk cheese  | +p                           | +p             | /       | /              | + | 0,009  | -    | st     | st      |                |  | -   | ND           | -                 | 0,008                                    | -  | st     | st      |                |  | -        | ND   | 6                                     | b            |                   |
| 2022                                | 856       | Pavé du Lot au lait de chèvre pasteurisé | Pasteurized goat milk cheese | st                           | st             | st      | st             | - | 0,002  | -    | -      | -       |                |  | -   | NA           | -                 |  |  |        |         |                |  |          |      | 6                                     | b            |                   |
| 2022                                | 857       | Manchego au lait pasteurisé de brebis    | Pasteurized ewe milk cheese  | +p                           | +p             | /       | /              | + | 0,004  | -    | st     | st      |                |  | -   | ND           | -                 | 0,000                                    | -  | st     | st      |                |  | -        | ND   | 6                                     | b            |                   |
| 2022                                | 865       | Bleu au lait de vache pasteurisé         | Pasteurized cow milk cheese  | st                           | st             | st      | st             | - | 0,002  | -    | st     | st      |                |  | -   | NA           | -                 |  |  |        |         |                |  |          |      | 6                                     | b            |                   |
| 2022                                | 866       | Crottin de chèvre au lait pasteurisé     | Pasteurized goat milk cheese | st                           | st             | st      | st             | - | 0,000  | -    | -      | -       |                |  | -   | NA           | -                 |  |  |        |         |                |  |          |      | 6                                     | b            |                   |
| 2022                                | 867       | Manchego au lait pasteurisé de brebis    | Pasteurized ewe milk cheese  | st                           | st             | st      | st             | - | 0,000  | -    | st     | st      |                |  | -   | NA           | -                 |  |  |        |         |                |  |          |      | 6                                     | b            |                   |
| 2022                                | 868       | Langres au lait de vache pasteurisé      | Pasteurized cow milk cheese  | st                           | st             | st      | st             | - | 0,004  | -    | st     | st      |                |  | -   | NA           | -                 |  |  |        |         |                |  |          |      | 6                                     | b            |                   |
| 2022                                | 869       | Pavé du Lot au lait de chèvre pasteurisé | Pasteurized goat milk cheese | st                           | st             | -       | -              | - | 0,009  | -    | -      | -       |                |  | -   | NA           | -                 |  |  |        |         |                |  |          |      | 6                                     | b            |                   |
| 2022                                | 1110      | Camembert au lait de vache pasteurisé    | Pasteurized cow milk cheese  | st                           | st             | +1/2    | +1/2           | + | 0,023  | -    | -      | -       |                |  | -   | ND           | -                 | 0,026                                    | -  | -      | -       |                |  | -        | ND   | 6                                     | b            |                   |
| 2022                                | 1111      | Camembert au lait de vache pasteurisé    | Pasteurized cow milk cheese  | st                           | st             | +1/2    | +1/2           | + | 0,031  | -    | -      | -       |                |  | -   | ND           | -                 | 0,016                                    | -  | -      | -       |                |  | -        | ND   | 6                                     | b            |                   |
| 2022                                | 1112      | Camembert au lait de vache pasteurisé    | Pasteurized cow milk cheese  | st                           | st             | +1/2    | +1/2           | + | 1,269  | +    | +p     | +p      | +/+            | +  | +   | PA           |                   | 1,633                                    | +  | +p     | +p      | +/+            | +  | +        | +    | PA                                    | 6            | b                 |

| PASTEURIZED MILK AND DAIRY PRODUCTS |           |   |                              |                              |                |         |                |      |  |  |         |                |  |   |              |                   |  |  |        |         |                |  |                                       |              |                   |   |          |      |
|-------------------------------------|-----------|---|------------------------------|------------------------------|----------------|---------|----------------|------|--|--|---------|----------------|--|---|--------------|-------------------|--|--|--------|---------|----------------|--|---------------------------------------|--------------|-------------------|---|----------|------|
| Year of analysis                    | Sample N° | Product (French name)                       | Product                      | Reference method: ISO 16654* |                |         |                |      | Alternative method: Solus <i>E. coli</i> O157 (including <i>E. coli</i> O157:H7) |  |         |                |  |   |              |                   |  |  |        |         |                |  |                                       |              |                   |   | Category | Type |
|                                     |           |   |                              | IMS 6h                       |                | IMS 24h |                |      | Final Result   | mTSB Novobiocin (20mg/L) for 16h at 41.5°C |         |                |  |   |              |                   |  | mTSB Novobiocin (20mg/L) for 16h at 41,5°C + 72 h at 5°C ± 3°C |        |         |                |  |                                       |              |                   |   |          |      |
|                                     |           |   |                              | CT-SMAC                      | CHROMagar O157 | CT-SMAC | CHROMagar O157 | O.D. |  | Result                                     | CT-SMAC | CHROMagar O157 | Confirmation latex kit (O157 without purification step, H7 after purification) | Tests of the reference method (Latex / Indol) | Final result | Agreement Ref/Alt | Reference method confirmatory test (IMS) | D.O.   | Result | CT-SMAC | CHROMagar O157 | Confirmation latex kit (O157 without purification step, H7 after purification) | Tests of the reference method (Latex) | Final result | Agreement Ref/Alt |   |          |      |
|                                     |           |   |                              |                              |                |         |                |      |  |  |         |                |  |   |              |                   |  |  |        |         |                |  |                                       |              |                   |   |          |      |
| 2022                                | 1113      | Fromage frais au lait de chèvre pasteurisé  | Pasteurized goat milk cheese | st                           | st             | +p      | +p             | +    | 0,739  | +  | +p      | +p             | +/+  | +   | +            | PA                |  | 0,633  | +      | +p      | +p             | +/+  | +                                     | +            | PA                | 6 | b        |      |
| 2022                                | 1114      | Fromage frais au lait de chèvre pasteurisé  | Pasteurized goat milk cheese | st                           | st             | st      | st             | -    | 0,665  | +  | +p      | +p             | +/+  | +   | +            | PD                |  | 0,611  | +      | +p      | +p             | +/+  | +                                     | +            | PD                | 6 | b        |      |
| 2022                                | 1115      | Fromage de chèvre au lait pasteurisé        | Pasteurized goat milk cheese | st                           | st             | +p      | +p             | +    | 1,180  | +  | +p      | +p             | +/+  | +   | +            | PA                |  | 1,222  | +      | +p      | +p             | +/+  | +                                     | +            | PA                | 6 | b        |      |
| 2022                                | 1116      | Fromage de brebis affiné au lait pasteurisé | Pasteurized ewe milk         | st                           | st             | +p      | +p             | +    | 0,974  | +  | +p      | +p             | +/+  | +   | +            | PA                |  | 0,786  | +      | +p      | +p             | +/+  | +                                     | +            | PA                | 6 | b        |      |
| 2022                                | 1117      | Fromage de brebis affiné au lait pasteurisé | Pasteurized ewe milk         | st                           | st             | +p      | +p             | +    | 0,709  | +  | +p      | +p             | +/+  | +   | +            | PA                |  | 0,710  | +      | +p      | +p             | +/+  | +                                     | +            | PA                | 6 | b        |      |
| 2022                                | 1118      | Fromage au lait de brebis pasteurisé        | Pasteurized ewe milk cheese  | st                           | st             | +md     | +md            | +    | 0,000  | -  | -       | -              |  |   | -            | ND                | -  | 0,016  | -      | -       | -              |  |                                       | -            | ND                | 6 | b        |      |
| 2022                                | 1137      | Fromage pasteurisé au lait de vache         | Pasteurized cow milk cheese  | st                           | st             | -       | -              | -    | 0,012  | -  | -       | -              |  |   | -            | NA                | -  |  |        |         |                |  |                                       |              |                   | 6 | b        |      |
| 2022                                | 1138      | Fromage pasteurisé au lait de vache         | Pasteurized cow milk cheese  | +p                           | +p             | /       | /              | +    | 0,807  | +  | +M      | +M             | +/+  | +   | +            | PA                |  | 0,984  | +      | +p      | +M             | +/+  | +                                     | +            | PA                | 6 | b        |      |
| 2022                                | 1139      | Fromage pasteurisé au lait de vache         | Pasteurized cow milk cheese  | st                           | st             | st      | st             | -    | 0,015  | -  | -       | -              |  |   | -            | NA                | -  |  |        |         |                |  |                                       |              |                   | 6 | b        |      |
| 2022                                | 1140      | Fromage pasteurisé au lait de brebis        | Pasteurized ewe milk         | -                            | -              | +M      | +M             | +    | 0,838  | +  | +1/2    | +1/2           | +/+  | +   | +            | PA                |  | 1,022  | +      | +M      | +M             | +/+  | +                                     | +            | PA                | 6 | b        |      |
| 2022                                | 1141      | Fromage pasteurisé au lait de brebis        | Pasteurized ewe milk         | st                           | -              | -       | -              | -    | 0,004  | -  | -       | -              |  |   | -            | NA                | -  |  |        |         |                |  |                                       |              |                   | 6 | b        |      |
| 2022                                | 1145      | Fromage pasteurisé au lait de brebis        | Pasteurized ewe milk         | st                           | st             | st      | -              | -    | 0,008  | -  | -       | -              |  |   | -            | NA                | -  |  |        |         |                |  |                                       |              |                   | 6 | b        |      |
| 2022                                | 1146      | Fromage pasteurisé au lait de chèvre        | Pasteurized goat milk cheese | st                           | st             | st      | st             | -    | 0,006  | -  | st      | st             |  |   | -            | NA                | -  |  |        |         |                |  |                                       |              |                   | 6 | b        |      |

## Appendix 5 – Relative level of detection study: raw data

Matrix: Ground beef

Strain: *Escherichia coli* O157:H7 Ad486Aerobic mesophilic flora:  $6,0 \cdot 10^2$  CFU/g

| N° sample | Level | Inoculation level (cfu/sample) | ISO 16654 method* |                |          |                |              | Solus O157 method              |       |        |              |              |                               |
|-----------|-------|--------------------------------|-------------------|----------------|----------|----------------|--------------|--------------------------------|-------|--------|--------------|--------------|-------------------------------|
|           |       |                                | IMS 6 h           |                | IMS 24 h |                | Final Result | Number positive samples/ Total | O.D.  | Result | Confirmation | Final result | Number positive samples/Total |
|           |       |                                | CT-SMAC           | CHROMagar O157 | CT-SMAC  | CHROMagar O157 |              |                                |       |        |              |              |                               |
| 47        | 0     | 0                              | St                | St             | St       | St             | -            | 0/5                            | 0.061 | -      | -            | -            | 0/5                           |
| 48        |       |                                | St                | St             | St       | St             | -            |                                | 0.067 | -      | -            | -            |                               |
| 49        |       |                                | St                | St             | St       | St             | -            |                                | 0.070 | -      | -            | -            |                               |
| 50        |       |                                | St                | St             | St       | St             | -            |                                | 0.073 | -      | -            | -            |                               |
| 51        |       |                                | St                | St             | St       | St             | -            |                                | 0.071 | -      | -            | -            |                               |
| 52        | Low   | 0,5                            | St                | St             | St       | St             | -            | 8/20                           | 2.573 | +      | +            | +            | 6/20                          |
| 53        |       |                                | +p                | +p             | /        | /              | +            |                                | 2.384 | +      | +            | +            |                               |
| 54        |       |                                | St                | St             | St       | St             | -            |                                | 2.231 | +      | +            | +            |                               |
| 55        |       |                                | St                | St             | St       | -              | -            |                                | 2.164 | +      | +            | +            |                               |
| 56        |       |                                | +p                | +p             | /        | /              | +            |                                | 0.068 | -      | -            | -            |                               |
| 57        |       |                                | St                | St             | St       | -              | -            |                                | 2.434 | +      | +            | +            |                               |
| 58        |       |                                | St                | St             | St       | -              | -            |                                | 0.076 | -      | -            | -            |                               |
| 59        |       |                                | +p                | +p             | /        | /              | +            |                                | 0.068 | -      | -            | -            |                               |
| 60        |       |                                | St                | St             | St       | St             | -            |                                | 0.071 | -      | -            | -            |                               |
| 61        |       |                                | +p                | +p             | /        | /              | +            |                                | 0.066 | -      | -            | -            |                               |
| 62        |       |                                | St                | St             | St       | -              | -            |                                | 0.067 | -      | -            | -            |                               |
| 63        |       |                                | St                | St             | St       | St             | -            |                                | 0.069 | -      | -            | -            |                               |
| 64        |       |                                | St                | St             | St       | -              | -            |                                | 0.068 | -      | -            | -            |                               |
| 65        |       |                                | St                | St             | St       | -              | -            |                                | 2.465 | +      | +            | +            |                               |
| 66        |       |                                | St                | St             | St       | -              | -            |                                | 0.066 | -      | -            | -            |                               |
| 67        |       |                                | +p                | +p             | /        | /              | +            |                                | 0.070 | -      | -            | -            |                               |
| 68        |       |                                | St                | St             | St       | -              | -            |                                | 0.073 | -      | -            | -            |                               |
| 69        |       |                                | +p                | +p             | /        | /              | +            |                                | 0.073 | -      | -            | -            |                               |
| 70        |       |                                | +p                | +p             | /        | /              | +            |                                | 0.071 | -      | -            | -            |                               |
| 71        |       |                                | +p                | +p             | /        | /              | +            |                                | 0.074 | -      | -            | -            |                               |
| 72        | High  | 1,4                            | +p                | +p             | /        | /              | +            | 4/5                            | 0.074 | -      | -            | -            | 3/5                           |
| 73        |       |                                | +p                | +p             | /        | /              | +            |                                | 0.071 | -      | -            | -            |                               |
| 74        |       |                                | +p                | +p             | /        | /              | +            |                                | 2.527 | +      | +            | +            |                               |
| 75        |       |                                | St                | St             | St       | -              | -            |                                | 2.564 | +      | +            | +            |                               |
| 76        |       |                                | +p                | +p             | /        | /              | +            |                                | 2.334 | +      | +            | +            |                               |

\* Analyses performed according to the COFRAC accreditation

ADRIA Développement

Summary report (Version 0)

Solus *E. coli* O157 ELISA

67/89

04 November 2022

Matrix: Raw milk

Strain: *Escherichia coli* O157:H7 Ad1745Aerobic mesophilic flora:  $7,6 \cdot 10^5$  CFU/g

| N° sample | Level | Inoculation level (cfu/sample) | ISO 16654 method* |                |          |                |              | Solus O157 method             |       |        |              |              |                               |
|-----------|-------|--------------------------------|-------------------|----------------|----------|----------------|--------------|-------------------------------|-------|--------|--------------|--------------|-------------------------------|
|           |       |                                | IMS 6 h           |                | IMS 24 h |                | Final Result | Number positive samples/Total | O.D.  | Result | Confirmation | Final result | Number positive samples/Total |
|           |       |                                | CT-SMAC           | CHROMagar O157 | CT-SMAC  | CHROMagar O157 |              |                               |       |        |              |              |                               |
| 184       | 0     | 0                              | -                 | -              | +md      | -              | -            | 0/5                           | 0.060 | -      | -            | -            | 0/5                           |
| 185       |       |                                | -                 | -              | +md      | -              | -            |                               | 0.055 | -      | -            | -            |                               |
| 186       |       |                                | -                 | -              | +md      | -              | -            |                               | 0.056 | -      | -            | -            |                               |
| 187       |       |                                | -                 | -              | +md      | +md            | -            |                               | 0.057 | -      | -            | -            |                               |
| 188       |       |                                | -                 | -              | +md      | -              | -            |                               | 0.055 | -      | -            | -            |                               |
| 189       | Low   | 1.5                            | +M                | +M             | /        | /              | +            | 12/20                         | 2.554 | +      | +            | +            | 9/20                          |
| 190       |       |                                | -                 | -              | +md      | -              | -            |                               | 0.071 | -      | -            | -            |                               |
| 191       |       |                                | -                 | -              | +m       | -              | -            |                               | 0.057 | -      | -            | -            |                               |
| 192       |       |                                | -                 | -              | +md      | +md            | -            |                               | 2.614 | +      | +            | +            |                               |
| 193       |       |                                | +M                | +1/2           | /        | /              | +            |                               | 0.056 | -      | -            | -            |                               |
| 194       |       |                                | +Md               | +              | +md      | -              | -            |                               | 2.503 | +      | +            | +            |                               |
| 195       |       |                                | +M                | +1/2           | /        | /              | +            |                               | 0.053 | -      | -            | -            |                               |
| 196       |       |                                | +Md               | +m (2)         | +md      | -              | -            |                               | 0.055 | -      | -            | -            |                               |
| 197       |       |                                | -                 | -              | +md      | -              | -            |                               | 2.577 | +      | +            | +            |                               |
| 198       |       |                                | +M                | +1/2           | /        | /              | +            |                               | 2.693 | +      | +            | +            |                               |
| 199       |       |                                | +md               | -              | +md      | -              | -            |                               | 0.057 | -      | -            | -            |                               |
| 200       |       |                                | +M                | +1/2           | /        | /              | +            |                               | 0.058 | -      | -            | -            |                               |
| 201       |       |                                | +M                | +1/2           | /        | /              | +            |                               | 0.056 | -      | -            | -            |                               |
| 202       |       |                                | +M                | +1/2           | /        | /              | +            |                               | 0.056 | -      | -            | -            |                               |
| 203       |       |                                | +M                | +1/2           | /        | /              | +            |                               | 2.678 | +      | +            | +            |                               |
| 204       |       |                                | +M                | +1/2           | /        | /              | +            |                               | 2.670 | +      | +            | +            |                               |
| 205       |       |                                | +M                | +1/2           | /        | /              | +            |                               | 0.056 | -      | -            | -            |                               |
| 206       | +M    | +1/2                           | /                 | /              | +        | 0.057          | -            | -                             | -     |        |              |              |                               |
| 207       | +md   | -                              | +md               | -              | -        | 2.712          | +            | +                             | +     |        |              |              |                               |
| 208       | +M    | +1/2                           | /                 | /              | +        | 2.680          | +            | +                             | +     |        |              |              |                               |
| 209       | High  | 3.9                            | +md               | +m             | +md      | +m             | +            | 5/5                           | 0.055 | -      | -            | -            | 4/5                           |
| 210       |       |                                | +M                | +1/2           | /        | /              | +            |                               | 2.623 | +      | +            | +            |                               |
| 211       |       |                                | +M                | +1/2           | /        | /              | +            |                               | 2.684 | +      | +            | +            |                               |
| 212       |       |                                | +M                | +1/2           | /        | /              | +            |                               | 2.703 | +      | +            | +            |                               |
| 213       |       |                                | +M                | +1/2           | /        | /              | +            |                               | 2.670 | +      | +            | +            |                               |

\* Analyses performed according to the COFRAC accreditation

ADRIA Développement

Summary report (Version 0)

Solus *E. coli* O157 ELISA

Matrix: Spinach

Strain: *Escherichia coli* O157:H7 Ad556Aerobic mesophilic flora: 2,0.10<sup>7</sup> CFU/g

| N° sample | Level | Inoculation level (cfu/sample) | ISO 16654 method* |                |          |                |              | Solus O157 method             |       |        |              |              |                               |
|-----------|-------|--------------------------------|-------------------|----------------|----------|----------------|--------------|-------------------------------|-------|--------|--------------|--------------|-------------------------------|
|           |       |                                | IMS 6 h           |                | IMS 24 h |                | Final Result | Number positive samples/Total | O.D.  | Result | Confirmation | Final result | Number positive samples/Total |
|           |       |                                | CT-SMAC           | CHROMagar O157 | CT-SMAC  | CHROMagar O157 |              |                               |       |        |              |              |                               |
| 1705      | 0     | 0                              | St                | St             | -        | -              | -            | 0/5                           | 0.064 | -      | -            | -            | 0/5                           |
| 1706      |       |                                | St                | -              | St       | -              | -            |                               | 0.066 | -      | -            | -            |                               |
| 1707      |       |                                | St                | -              | -        | -              | -            |                               | 0.065 | -      | -            | -            |                               |
| 1708      |       |                                | St                | -              | -        | -              | -            |                               | 0.068 | -      | -            | -            |                               |
| 1709      |       |                                | St                | -              | St       | -              | -            |                               | 0.068 | -      | -            | -            |                               |
| 1710      | Low   | 1,0                            | St                | -              | St       | -              | -            | 12/20                         | 2.754 | +      | +            | +            | 10/20                         |
| 1711      |       |                                | St                | -              | St       | -              | -            |                               | 0.067 | -      | -            | -            |                               |
| 1712      |       |                                | + p               | + M            | /        | /              | +            |                               | 2.759 | +      | +            | +            |                               |
| 1713      |       |                                | St                | -              | St       | -              | -            |                               | 2.747 | +      | +            | +            |                               |
| 1714      |       |                                | St                | -              | St       | -              | -            |                               | 0.065 | -      | -            | -            |                               |
| 1715      |       |                                | + p               | + M            | /        | /              | +            |                               | 0.067 | -      | -            | -            |                               |
| 1716      |       |                                | St                | -              | St       | -              | -            |                               | 2.714 | +      | +            | +            |                               |
| 1717      |       |                                | St                | St             | St       | -              | -            |                               | 2.664 | +      | +            | +            |                               |
| 1718      |       |                                | + p               | + M            | /        | /              | +            |                               | 0.070 | -      | -            | -            |                               |
| 1719      |       |                                | + p               | + M            | /        | /              | +            |                               | 2.863 | +      | +            | +            |                               |
| 1720      |       |                                | + p               | + p            | /        | /              | +            |                               | 0.061 | -      | -            | -            |                               |
| 1721      |       |                                | + p               | + M            | /        | /              | +            |                               | 0.067 | -      | -            | -            |                               |
| 1722      |       |                                | + p               | + p            | /        | /              | +            |                               | 2.836 | +      | +            | +            |                               |
| 1723      |       |                                | St                | -              | St       | -              | -            |                               | 2.807 | +      | +            | +            |                               |
| 1724      |       |                                | + p               | + M            | /        | /              | +            |                               | 0.068 | -      | -            | -            |                               |
| 1725      |       |                                | St                | St             | St       | -              | -            |                               | 0.066 | -      | -            | -            |                               |
| 1726      |       |                                | + p               | + p            | /        | /              | +            |                               | 0.064 | -      | -            | -            |                               |
| 1727      | + p   | + M                            | /                 | /              | +        | 2.951          | +            | +                             | +     |        |              |              |                               |
| 1728      | + p   | + M                            | /                 | /              | +        | 2.917          | +            | +                             | +     |        |              |              |                               |
| 1729      | + p   | + M                            | /                 | /              | +        | 0.059          | -            | -                             | -     |        |              |              |                               |
| 1730      | High  | 2,5                            | + p               | + M            | /        | /              | +            | 5/5                           | 2.955 | +      | +            | +            | 4/5                           |
| 1731      |       |                                | + p               | + M            | /        | /              | +            |                               | 2.910 | +      | +            | +            |                               |
| 1732      |       |                                | + p               | + p            | /        | /              | +            |                               | 0.063 | -      | -            | -            |                               |
| 1733      |       |                                | + p               | + p            | /        | /              | +            |                               | 2.863 | +      | +            | +            |                               |
| 1734      |       |                                | + p               | + M            | /        | /              | +            |                               | 2.876 | +      | +            | +            |                               |

\* Analyses performed according to the COFRAC accreditation

ADRIA Développement

Summary report (Version 0)

Solus *E. coli* O157 ELISA

Matrix: Process water (meat industry)  
Strain: *Escherichia coli* O157:H7 Ad552

Aerobic mesophilic flora:  $8,4 \cdot 10^5$  CFU/ml

| N° sample | Level | Inoculation level<br>(cfu/sample) | ISO 16654 method* |                   |          |                   |                 | Solus O157 method                |       |        |              |                 |                                  |
|-----------|-------|-----------------------------------|-------------------|-------------------|----------|-------------------|-----------------|----------------------------------|-------|--------|--------------|-----------------|----------------------------------|
|           |       |                                   | IMS 6 h           |                   | IMS 24 h |                   | Final<br>Result | Number positive<br>samples/Total | O.D.  | Result | Confirmation | Final<br>result | Number positive<br>samples/Total |
|           |       |                                   | CT-SMAC           | CHROMagar<br>O157 | CT-SMAC  | CHROMagar<br>O157 |                 |                                  |       |        |              |                 |                                  |
| 1631      | 0     | 0                                 | St                | St                | St       | -                 | -               | 0/5                              | 0.070 | -      | -            | -               | 0/5                              |
| 1632      |       |                                   | St                | St                | St       | -                 | -               |                                  | 0.061 | -      | -            | -               |                                  |
| 1633      |       |                                   | St                | St                | St       | -                 | -               |                                  | 0.064 | -      | -            | -               |                                  |
| 1634      |       |                                   | St                | St                | St       | -                 | -               |                                  | 0.065 | -      | -            | -               |                                  |
| 1635      |       |                                   | St                | St                | St       | -                 | -               |                                  | 0.058 | -      | -            | -               |                                  |
| 1636      | Low   | 0,9                               | St                | St                | St       | -                 | -               | 5/20                             | 0.060 | -      | -            | -               | 4/20                             |
| 1637      |       |                                   | St                | St                | St       | -                 | -               |                                  | 0.063 | -      | -            | -               |                                  |
| 1638      |       |                                   | + p               | + p               | /        | /                 | +               |                                  | 2.606 | +      | +            | +               |                                  |
| 1639      |       |                                   | St                | St                | St       | -                 | -               |                                  | 2.535 | +      | +            | +               |                                  |
| 1640      |       |                                   | St                | St                | St       | -                 | -               |                                  | 0.064 | -      | -            | -               |                                  |
| 1641      |       |                                   | St                | St                | St       | -                 | -               |                                  | 0.065 | -      | -            | -               |                                  |
| 1642      |       |                                   | St                | St                | St       | -                 | -               |                                  | 0.066 | -      | -            | -               |                                  |
| 1643      |       |                                   | + p               | + p               | /        | /                 | +               |                                  | 0.065 | -      | -            | -               |                                  |
| 1644      |       |                                   | St                | St                | St       | -                 | -               |                                  | 2.495 | +      | +            | +               |                                  |
| 1645      |       |                                   | + p               | + p               | /        | /                 | +               |                                  | 0.060 | -      | -            | -               |                                  |
| 1646      |       |                                   | St                | St                | St       | -                 | -               |                                  | 0.063 | -      | -            | -               |                                  |
| 1647      |       |                                   | St                | St                | St       | -                 | -               |                                  | 0.066 | -      | -            | -               |                                  |
| 1648      |       |                                   | St                | St                | St       | -                 | -               |                                  | 0.065 | -      | -            | -               |                                  |
| 1649      |       |                                   | St                | St                | St       | -                 | -               |                                  | 0.064 | -      | -            | -               |                                  |
| 1650      |       |                                   | St                | St                | St       | -                 | -               |                                  | 0.063 | -      | -            | -               |                                  |
| 1651      | St    | St                                | St                | -                 | -        | 0.061             | -               | -                                | -     |        |              |                 |                                  |
| 1652      | St    | St                                | St                | -                 | -        | 0.060             | -               | -                                | -     |        |              |                 |                                  |
| 1653      | + p   | + p                               | /                 | /                 | +        | 2.770             | +               | +                                | +     |        |              |                 |                                  |
| 1654      | + p   | + p                               | /                 | /                 | +        | 0.066             | -               | -                                | -     |        |              |                 |                                  |
| 1655      | St    | St                                | St                | -                 | -        | 0.063             | -               | -                                | -     |        |              |                 |                                  |
| 1656      | High  | 2,1                               | St                | St                | St       | -                 | -               | 3/5                              | 2.854 | +      | +            | +               | 4/5                              |
| 1657      |       |                                   | + p               | + p               | /        | /                 | +               |                                  | 2.719 | +      | +            | +               |                                  |
| 1658      |       |                                   | + p               | + p               | /        | /                 | +               |                                  | 0.064 | -      | -            | -               |                                  |
| 1659      |       |                                   | St                | St                | St       | -                 | -               |                                  | 2.595 | +      | +            | +               |                                  |
| 1660      |       |                                   | + p               | + p               | /        | /                 | +               |                                  | 2.592 | +      | +            | +               |                                  |

\* Analyses performed according to the COFRAC accreditation

ADRIA Développement

Summary report (Version 0)

Solus *E. coli* O157 ELISA

**Matrix: Pasta (lasagnes)****Strain: *Escherichia coli* O157:H7 Ad485**Aerobic mesophilic flora:  $2,6 \cdot 10^4$  CFU/g

| N° sample | Level | Inoculation level<br>(cfu/sample) | Reference method: ISO 16654♦ |                   |         |                   |                 | Alternative method: Solus <i>E. coli</i> O157 (including <i>E. coli</i> O157:H7)<br>mTSB Novobiocin (20mg/L) - 16h at 41.5°C |       |        |              |                 |  |                                  |
|-----------|-------|-----------------------------------|------------------------------|-------------------|---------|-------------------|-----------------|--|-------|--------|--------------|-----------------|--|----------------------------------|
|           |       |                                   | IMS 6h                       |                   | IMS 24h |                   | Final<br>Result | Number positive<br>samples/Total   | O.D.  | Result | Confirmation | Final<br>result | Reference method<br>confirmatory test<br>(IMS) | Number positive<br>samples/Total |
|           |       |                                   | CT-SMAC                      | CHROMagar<br>O157 | CT-SMAC | CHROMagar<br>O157 |                 |  |       |        |              |                 |  |                                  |
| 733       | 0     | 0                                 | st                           | st                | st      | st                | -               | 0/5  | 0,006 | -      | -            | -               | -  | 0/5                              |
| 734       |       |                                   | st                           | st                | st      | st                | -               |  | 0,011 | -      | -            | -               | -  |                                  |
| 735       |       |                                   | st                           | st                | st      | st                | -               |  | 0,015 | -      | -            | -               | -  |                                  |
| 736       |       |                                   | st                           | st                | st      | st                | -               |  | 0,018 | -      | -            | -               | -  |                                  |
| 737       |       |                                   | st                           | st                | st      | st                | -               |  | 0,022 | -      | -            | -               | -  |                                  |
| 738       | 1     | 0,9                               | st                           | st                | st      | st                | -               | 8/20   | 1,147 | +      | +            | +               | /  | 7/20                             |
| 739       |       |                                   | st                           | st                | st      | st                | -               |  | 0,004 | -      | -            | -               | -  |                                  |
| 740       |       |                                   | +p                           | +p                | +p      | +p                | +               |  | 0,918 | +      | +            | +               | /  |                                  |
| 741       |       |                                   | st                           | st                | st      | st                | -               |  | 0,015 | -      | -            | -               | -  |                                  |
| 742       |       |                                   | st                           | st                | st      | st                | -               |  | 0,005 | -      | -            | -               | -  |                                  |
| 743       |       |                                   | +p                           | +p                | +p      | +p                | +               |  | 0,007 | -      | -            | -               | -  |                                  |
| 744       |       |                                   | st                           | st                | st      | st                | -               |  | 0,027 | -      | -            | -               | -  |                                  |
| 745       |       |                                   | +p                           | +p                | +p      | +p                | +               |  | 1,167 | +      | +            | +               | /  |                                  |
| 746       |       |                                   | +p                           | +p                | +p      | +p                | +               |  | 0,006 | -      | -            | -               | -  |                                  |
| 747       |       |                                   | +p                           | +p                | +p      | +p                | +               |  | 0,587 | +      | +            | +               | /  |                                  |
| 748       |       |                                   | st                           | st                | st      | st                | -               |  | 0,804 | +      | +            | +               | /  |                                  |
| 749       |       |                                   | st                           | st                | st      | st                | -               |  | 0,630 | +      | +            | +               | /  |                                  |
| 750       |       |                                   | +p                           | +p                | +p      | +p                | +               |  | 0,000 | -      | -            | -               | -  |                                  |
| 751       |       |                                   | +p                           | +p                | +p      | +p                | +               |  | 0,002 | -      | -            | -               | -  |                                  |
| 752       |       |                                   | st                           | st                | st      | st                | -               |  | 0,009 | -      | -            | -               | -  |                                  |
| 753       |       |                                   | st                           | st                | st      | st                | -               |  | 0,000 | -      | -            | -               | -  |                                  |
| 754       |       |                                   | st                           | st                | st      | st                | -               |  | 0,018 | -      | -            | -               | -  |                                  |
| 755       |       |                                   | st                           | st                | st      | st                | -               |  | 0,001 | -      | -            | -               | -  |                                  |
| 756       |       |                                   | st                           | st                | st      | st                | -               |  | 0,692 | +      | +            | +               | /  |                                  |
| 757       |       |                                   | +p                           | +p                | +p      | +p                | +               |  | 0,113 | -      | -            | -               | -  |                                  |
| 758       | 2     | 6,6                               | +p                           | +p                | +p      | +p                | +               | 5/5  | 0,845 | +      | +            | +               | /  | 5/5                              |
| 759       |       |                                   | +p                           | +p                | +p      | +p                | +               |  | 0,707 | +      | +            | +               | /  |                                  |
| 760       |       |                                   | +p                           | +p                | +p      | +p                | +               |  | 1,072 | +      | +            | +               | /  |                                  |
| 761       |       |                                   | +p                           | +p                | +p      | +p                | +               |  | 1,169 | +      | +            | +               | /  |                                  |
| 762       |       |                                   | +p                           | +p                | +p      | +p                | +               |  | 0,956 | +      | +            | +               | /  |                                  |

♦ Analyses performed according to the COFRAC accreditation

ADRIA Développement

Summary report (Version 0)

Solus *E. coli* O157 ELISA

Matrix : Pasteurized cheese

Strain : *Escherichia coli* O157:H7 Ad3101Aerobic mesophilic flora: 2,1 10<sup>7</sup> CFU/g

| N° sample | Level | Inoculation level (cfu/sample) | Reference method: ISO 16654♦ |                |         |                |              | Alternative method: Solus <i>E. coli</i> O157 (including <i>E. coli</i> O157:H7) mTSB Novobiocin (20mg/L) - 16h at 41.5°C |       |        |              |              |  |                               |
|-----------|-------|--------------------------------|------------------------------|----------------|---------|----------------|--------------|---|-------|--------|--------------|--------------|--|-------------------------------|
|           |       |                                | IMS 6h                       |                | IMS 24h |                | Final Result | Number positive samples/Total   | O.D.  | Result | Confirmation | Final result | Reference method confirmatory test (IMS) | Number positive samples/Total |
|           |       |                                | CT-SMAC                      | CHROMagar O157 | CT-SMAC | CHROMagar O157 |              |   |       |        |              |              |  |                               |
| 977       | 0     | 0                              | st                           | st             | st      | st             | -            | 0/5   | 0,014 | -      | -            | -            | -  | 0/5                           |
| 978       |       |                                | st                           | st             | st      | st             | -            |   | 0,000 | -      | -            | -            | -  |                               |
| 979       |       |                                | st                           | st             | st      | st             | -            |   | 0,000 | -      | -            | -            | -  |                               |
| 980       |       |                                | st                           | st             | st      | st             | -            |   | 0,002 | -      | -            | -            | -  |                               |
| 981       |       |                                | st                           | st             | st      | st             | -            |   | 0,021 | -      | -            | -            | -  |                               |
| 982       | 1     | 1,8                            | +p                           | +p             | /       | /              | +            | 12/20   | 0,001 | -      | -            | -            | -  | 10/20                         |
| 983       |       |                                | st                           | st             | st      | st             | -            |   | 0,003 | -      | -            | -            | -  |                               |
| 984       |       |                                | +p                           | +p             | /       | /              | +            |   | 1,083 | +      | +            | +            |  |                               |
| 985       |       |                                | st                           | st             | st      | st             | -            |   | 0,950 | +      | +            | +            |  |                               |
| 986       |       |                                | +p                           | +p             | /       | /              | +            |   | 1,640 | +      | +            | +            |  |                               |
| 987       |       |                                | +p                           | +p             | /       | /              | +            |   | 1,721 | +      | +            | +            |  |                               |
| 988       |       |                                | +p                           | +p             | /       | /              | +            |   | 0,975 | +      | +            | +            |  |                               |
| 989       |       |                                | +p                           | +p             | /       | /              | +            |   | 1,301 | +      | +            | +            |  |                               |
| 990       |       |                                | +p                           | +p             | /       | /              | +            |   | 1,286 | +      | +            | +            |  |                               |
| 991       |       |                                | +p                           | +p             | /       | /              | +            |   | 0,000 | -      | -            | -            | -  |                               |
| 992       |       |                                | st                           | st             | st      | st             | -            |   | 1,224 | +      | +            | +            |  |                               |
| 993       |       |                                | +p                           | +p             | /       | /              | +            |   | 1,122 | +      | +            | +            |  |                               |
| 994       |       |                                | st                           | st             | st      | st             | -            |   | 0,000 | -      | -            | -            | -  |                               |
| 995       |       |                                | st                           | st             | +p      | +p             | +            |   | 0,000 | -      | -            | -            | -  |                               |
| 996       |       |                                | st                           | st             | st      | st             | -            |   | 0,000 | -      | -            | -            | -  |                               |
| 997       |       |                                | st                           | st             | st      | st             | -            |   | 0,002 | -      | -            | -            | -  |                               |
| 998       |       |                                | st                           | st             | st      | st             | -            |   | 1,084 | +      | +            | +            |  |                               |
| 999       |       |                                | +p                           | +p             | /       | /              | +            |   | 0,000 | -      | -            | -            | -  |                               |
| 1000      |       |                                | +p                           | +p             | /       | /              | +            |   | 0,000 | -      | -            | -            | -  |                               |
| 1001      |       |                                | st                           | st             | st      | st             | -            |   | 0,000 | -      | -            | -            | -  |                               |
| 1002      | 2     | 11,2                           | +p                           | +p             | /       | /              | +            | 5/5   | 0,943 | +      | +            | +            |  | 5/5                           |
| 1003      |       |                                | +p                           | +p             | /       | /              | +            |   | 0,859 | +      | +            | +            |  |                               |
| 1004      |       |                                | +p                           | +p             | /       | /              | +            |   | 1,757 | +      | +            | +            |  |                               |
| 1005      |       |                                | +p                           | +p             | /       | /              | +            |   | 1,294 | +      | +            | +            |  |                               |
| 1006      |       |                                | +p                           | +p             | /       | /              | +            |   | 1,094 | +      | +            | +            |  |                               |

♦ Analyses performed according to the COFRAC accreditation

ADRIA Développement

Summary report (Version 0)

Solus *E. coli* O157 ELISA

## Appendix 6 – Inclusivity and exclusivity study: raw data

| INCLUSIVITY |                         |         |                                |  |        |         |                   |  |   |     |
|-------------|-------------------------|---------|--------------------------------|--|--------|---------|-------------------|--|---|-----|
| Strain      | Reference               | Origin  | Inoculation level<br>CFU/225ml | Solus <i>E. coli</i> O157 (including <i>E. coli</i> O157:H7) method<br>mTSB Novobiocin (20mg/L) - 16 h at 41.5°C |        |         |                   |  |   |     |
|             |                         |         |                                | O.D.   | Result | CT-SMAC | CHROMagar<br>O157 | Confirmation latex kit<br>(Microgen O157 without a purification<br>step / Wellcolex H7 after purification) |   |     |
| 1           | <i>Escherichia coli</i> | O157:H7 | Ad 485                         | Ground beef  | 5      | 2.772   | +                 | +  | + | +/+ |
| 2           | <i>Escherichia coli</i> | O157:H7 | Ad486                          | Ground beef  | 3      | 2.735   | +                 | +  | + | +/+ |
| 3           | <i>Escherichia coli</i> | O157:H7 | Ad487                          | Ground beef  | 9      | 2.757   | +                 | +  | + | +/+ |
| 4           | <i>Escherichia coli</i> | O157:H7 | Ad488                          | Ground beef  | 7      | 2.762   | +                 | +  | + | +/+ |
| 5           | <i>Escherichia coli</i> | O157:H7 | Ad489                          | Ground beef  | 3      | 2.674   | +                 | +  | + | +/+ |
| 6           | <i>Escherichia coli</i> | O157:H7 | Ad 552                         | Slaughterhouse   | 8      | 2.735   | +                 | +  | + | +/+ |
| 7           | <i>Escherichia coli</i> | O157:H7 | Ad 553                         | Slaughterhouse   | 11     | 2.799   | +                 | +  | + | +/+ |
| 8           | <i>Escherichia coli</i> | O157:H7 | Ad 554                         | Slaughterhouse   | 7      | 2.369   | +                 | +  | + | +/+ |
| 9           | <i>Escherichia coli</i> | O157:H7 | Ad 555                         | Slaughterhouse   | 11     | 2.759   | +                 | +  | + | +/+ |
| 10          | <i>Escherichia coli</i> | O157:H7 | Ad 556                         | Water purification   | 13     | 2.703   | +                 | +  | + | +/+ |
| 11          | <i>Escherichia coli</i> | O157:H7 | Ad 557                         | Water purification   | 10     | 2.686   | +                 | +  | + | +/+ |
| 12          | <i>Escherichia coli</i> | O157:H7 | Ad 558                         | Water purification   | 6      | 2.697   | +                 | +  | + | +/+ |
| 13          | <i>Escherichia coli</i> | O157:H7 | Ad 559                         | Ground beef  | 13     | 2.654   | +                 | +  | + | +/+ |
| 14          | <i>Escherichia coli</i> | O157:H7 | Ad 560                         | Ground beef  | 3      | 2.863   | +                 | +  | + | +/+ |
| 15          | <i>Escherichia coli</i> | O157:H7 | Ad 561                         | Ground beef  | 11     | 2.793   | +                 | +  | + | +/+ |
| 16          | <i>Escherichia coli</i> | O157:H7 | Ad 562                         | Ground beef  | 4      | 2.742   | +                 | +  | + | +/+ |
| 17          | <i>Escherichia coli</i> | O157:H7 | Ad 563                         | Ground beef  | 14     | 2.699   | +                 | +  | + | +/+ |
| 18          | <i>Escherichia coli</i> | O157:H7 | Ad 564                         | Ground beef  | 12     | 2.648   | +                 | +  | + | +/+ |
| 19          | <i>Escherichia coli</i> | O157:H7 | Ad 565                         | Ground beef  | 5      | 2.447   | +                 | +  | + | +/+ |
| 20          | <i>Escherichia coli</i> | O157:H7 | Ad 566                         | Ground beef  | 6      | 2.754   | +                 | +  | + | +/+ |
| 21          | <i>Escherichia coli</i> | O157:H7 | Ad 567                         | Slaughterhouse   | 5      | 2.733   | +                 | +  | + | +/+ |
| 22          | <i>Escherichia coli</i> | O157:H7 | Ad 568                         | Slaughterhouse   | 9      | 2.870   | +                 | +  | + | +/+ |
| 23          | <i>Escherichia coli</i> | O157:H7 | Ad 569                         | Slaughterhouse   | 8      | 2.839   | +                 | +  | + | +/+ |
| 24          | <i>Escherichia coli</i> | O157:H7 | Ad 570                         | Slaughterhouse   | 7      | 2.783   | +                 | +  | + | +/+ |

| INCLUSIVITY |                         |          |           |                         |                                |  |        |         |                   |  |
|-------------|-------------------------|----------|-----------|-------------------------|--------------------------------|--|--------|---------|-------------------|--|
| Strain      |                         |          | Reference | Origin                  | Inoculation level<br>CFU/225ml | Solus <i>E. coli</i> O157 (including <i>E. coli</i> O157:H7) method<br>mTSB Novobiocin (20mg/L) - 16 h at 41.5°C |        |         |                   |  |
|             |                         |          |           |                         |                                | O.D.   | Result | CT-SMAC | CHROMagar<br>O157 | Confirmation latex kit<br>(Microgen O157 without a purification<br>step / Wellcolex H7 after purification) |
| 25          | <i>Escherichia coli</i> | O157:H7  | Ad 571    | Faeces                  | 10                             | 2.625  | +      | +       | +                 | +/+  |
| 26          | <i>Escherichia coli</i> | O157:H7  | Ad 572    | Faeces                  | 7                              | 2.721  | +      | +       | +                 | +/+  |
| 27          | <i>Escherichia coli</i> | O157:H7  | Ad 573    | Faeces                  | 18                             | 2.652  | +      | +       | +                 | +/+  |
| 28          | <i>Escherichia coli</i> | O157:H7  | Ad 574    | Faeces                  | 13                             | 2.526  | +      | +       | +                 | +/+  |
| 29          | <i>Escherichia coli</i> | O157:H7  | Ad 575    | Faeces                  | 5                              | 2.759  | +      | +       | +                 | +/+  |
| 30          | <i>Escherichia coli</i> | O157:H7  | Ad 576    | Faeces                  | 5                              | 2.767  | +      | +       | +                 | +/+  |
| 31          | <i>Escherichia coli</i> | O157:H7  | Ad 577    | Faeces                  | 10                             | 2.708  | +      | +       | +                 | +/+  |
| 32          | <i>Escherichia coli</i> | O157:H7  | Ad 578    | Faeces                  | 9                              | 2.754  | +      | +       | +                 | +/+  |
| 33          | <i>Escherichia coli</i> | O157:H7  | Ad 579    | Faeces                  | 14                             | 2.703  | +      | +       | +                 | +/+  |
| 34          | <i>Escherichia coli</i> | O157:H7  | Ad 580    | Faeces                  | 29                             | 2.708  | +      | +       | +                 | +/+  |
| 35          | <i>Escherichia coli</i> | O157:H7  | Ad 581    | Faeces                  | 2                              | 2.708  | +      | +       | +                 | +/+  |
| 36          | <i>Escherichia coli</i> | O157:H7  | Ad 582    | Faeces                  | 6                              | 2.754  | +      | +       | +                 | +/+  |
| 37          | <i>Escherichia coli</i> | O157:H7  | Ad 583    | Ground beef             | 8                              | 2.620  | +      | +       | +                 | +/+  |
| 38          | <i>Escherichia coli</i> | O157:H7  | Ad 584    | Ground beef             | 6                              | 2.770  | +      | +       | +                 | +/+  |
| 39          | <i>Escherichia coli</i> | O157:H7  | Ad 585    | Ground beef             | 7                              | 2.724  | +      | +       | +                 | +/+  |
| 40          | <i>Escherichia coli</i> | O157:H7  | Ad 586    | Ground beef             | 4                              | 2.726  | +      | +       | +                 | +/+  |
| 41          | <i>Escherichia coli</i> | O157:H7  | Ad 587    | Ground beef             | 7                              | 2.740  | +      | +       | +                 | +/+  |
| 42          | <i>Escherichia coli</i> | O157:H7  | Ad 588    | Ground beef             | 5                              | 2.759  | +      | +       | +                 | +/+  |
| 43          | <i>Escherichia coli</i> | O157:H7  | Ad 589    | Ground beef             | 1                              | 2.730  | +      | +       | +                 | +/+  |
| 44          | <i>Escherichia coli</i> | O157:H7  | Ad 590    | Ground beef             | 6                              | 2.747  | +      | +       | +                 | +/+  |
| 45          | <i>Escherichia coli</i> | O157:H7  | Ad 591    | Ground beef             | 5                              | 2.682  | +      | +       | +                 | +/+  |
| 46          | <i>Escherichia coli</i> | O157:H7  | Ad 922    | Ground beef with onions | 6                              | 2.764  | +      | +       | +                 | +/+  |
| 47          | <i>Escherichia coli</i> | O157     | Ad525     | Faeces                  | 8                              | 1.110  | +      | +       | +                 | +/+  |
| 48          | <i>Escherichia coli</i> | O157     | Ad527     | Clinical                | 5                              | 2.767  | +      | +       | +                 | +/+  |
| 49          | <i>Escherichia coli</i> | O157:H-  | Ad 535    | /                       | 12                             | 2.750  | +      | +       | +                 | +/+  |
| 50          | <i>Escherichia coli</i> | O157:H43 | Ad 517    | /                       | 9                              | 2.754  | +      | +       | +                 | +/+  |

| EXCLUSIVITY |                             |             |            |                              |   |        |         |                   |  |
|-------------|-----------------------------|-------------|------------|------------------------------|---|--------|---------|-------------------|--|
| Strain      |                             | Reference   | Origin     | Inoculation level<br>CFU/ml  | Solus <i>E. coli</i> O157 (including <i>E. coli</i> O157:H7) method<br>BPW - 20 h at 37°C |        |         |                   |  |
|             |                             |             |            |                              | O.D.  | Result | CT-SMAC | CHROMagar<br>O157 | Confirmation latex kit<br>(O157 without a<br>purification step /<br>H7 after purification) |
| 1           | <i>Citrobacter freundii</i> |             | 25         | Frozen raw spinach           | 4.4 10 <sup>5</sup>   | 0.059  | -       |                   |  |
| 2           | <i>Escherichia coli</i>     | O103:H2     | Ad 1773    | Cheese                       | 6.7 10 <sup>5</sup>   | 0.062  | -       |                   |  |
| 3           | <i>Escherichia coli</i>     | O104:H21    | Ad 516     | Clinical origin (USA)        | 5.3 10 <sup>5</sup>   | 0.061  | -       |                   |  |
| 4           | <i>Escherichia coli</i>     | O111:H2     | Ad 513     | Clinical origin (UK)         | 5.1 10 <sup>5</sup>   | 0.063  | -       |                   |  |
| 5           | <i>Escherichia coli</i>     | O111:H21    | Ad 508     | Clinical origin (USA)        | 3.0 10 <sup>5</sup>   | 0.062  | -       |                   |  |
| 6           | <i>Escherichia coli</i>     | O111:H8     | Ad 511     | Clinical origin (USA)        | 5.3 10 <sup>5</sup>   | 0.064  | -       |                   |  |
| 7           | <i>Escherichia coli</i>     | O121        | Ad 1779    | /                            | 4.7 10 <sup>5</sup>   | 0.061  | -       |                   |  |
| 8           | <i>Escherichia coli</i>     | O127:H6     | Ad 520     | Clinical origin (UK)         | 4.7 10 <sup>5</sup>   | 0.060  | -       |                   |  |
| 9           | <i>Escherichia coli</i>     | O128:H2     | Ad 512     | Clinical origin (USA)        | 5.6 10 <sup>5</sup>   | 0.065  | -       |                   |  |
| 10          | <i>Escherichia coli</i>     | O128:H7     | Ad 514     | Clinical origin (USA)        | 5.6 10 <sup>5</sup>   | 0.059  | -       |                   |  |
| 11          | <i>Escherichia coli</i>     | O18:K1:H7   | Ad 522     | Clinical origin              | 4.6 10 <sup>5</sup>   | 0.062  | -       |                   |  |
| 12          | <i>Escherichia coli</i>     | O26         | Ad 1739    | Cheese                       | 6.0 10 <sup>5</sup>   | 0.061  | -       |                   |  |
| 13          | <i>Escherichia coli</i>     | O26:H11     | Ad 510     | Clinical origin (USA)        | 5.1 10 <sup>5</sup>   | 0.063  | -       |                   |  |
| 14          | <i>Escherichia coli</i>     | O3:H2       | Ad 504     | Clinical origin (Chile)      | 4.2 10 <sup>5</sup>   | 0.062  | -       |                   |  |
| 15          | <i>Escherichia coli</i>     | O44:H18     | Ad 519     | Clinical origin (Peru)       | 5.1 10 <sup>5</sup>   | 0.059  | -       |                   |  |
| 16          | <i>Escherichia coli</i>     | O45:H2      | Ad 1778    | /                            | 3.8 10 <sup>5</sup>   | 0.059  | -       |                   |  |
| 17          | <i>Escherichia coli</i>     | O55:H6      | Ad 521     | Clinical origin (USA)        | 5.6 10 <sup>5</sup>   | 0.061  | -       |                   |  |
| 18          | <i>Escherichia coli</i>     | O55:H7      | Ad 518     | Clinical origin (Sri Lanka)  | 5.1 10 <sup>5</sup>   | 0.060  | -       |                   |  |
| 19          | <i>Escherichia coli</i>     | O6:H10      | Ad 507     | Clinical origin (Sweden)     | 5.6 10 <sup>5</sup>   | 0.059  | -       |                   |  |
| 20          | <i>Escherichia coli</i>     | O6:H6       | Ad 506     | Human                        | 3.9 10 <sup>5</sup>   | 0.062  | -       |                   |  |
| 21          | <i>Escherichia coli</i>     | O78:H11     | ATCC 35401 |                              | 3.7 10 <sup>5</sup>   | 0.060  | -       |                   |  |
| 22          | <i>Escherichia coli</i>     | O78:K80:H12 | ATCC 43896 | Human                        | 5.6 10 <sup>5</sup>   | 0.063  | -       |                   |  |
| 23          | <i>Escherichia coli</i>     | O86:H43     | Ad 509     | Animal origin (elephant USA) | 4.9 10 <sup>5</sup>   | 0.061  | -       |                   |  |

| EXCLUSIVITY |                             |             |         |                             |   |           |         |                   |   |   |
|-------------|-----------------------------|-------------|---------|-----------------------------|---|-----------|---------|-------------------|---|---|
| Strain      |                             | Reference   | Origin  | Inoculation level<br>CFU/ml | Solus <i>E. coli</i> O157 (including <i>E. coli</i> O157:H7) method<br>BPW - 20 h at 37°C |           |         |                   |   |   |
|             |                             |             |         |                             | O.D.  | Result    | CT-SMAC | CHROMagar<br>O157 | Confirmation latex kit<br>(O157 without a<br>purification step /<br>H7 after purification ) |   |
| 24          | <i>Escherichia coli</i>     | O92:H33     | Ad 503  | Clinical origin<br>(Mexico) | 5.3 10 <sup>5</sup>   | 0.063     | -       |                   |   |   |
| 25          | <i>Escherichia vulneris</i> |             | 127     | Raw milk                    | 6.4 10 <sup>5</sup>   | 0.057     | -       |                   |   |   |
| 26          | <i>Hafnia alvei</i>         |             | 88      | Bakery                      | 6.2 10 <sup>5</sup>   | 0.061     | -       |                   |   |   |
| 27          | <i>Salmonella</i>           | Landau      | Ad499   | Food product                | 2.0 10 <sup>5</sup>   | 2.967     | +       | - (sorbitol +)    | -   | / |
|             |                             |             |         |                             | 4*  | 2.735     | +       | St                | -   | / |
| 28          | <i>Salmonella</i>           | Typhimurium | Ad 2226 | Pork meat                   | 3.7 10 <sup>5</sup>   | 0.059     | -       |                   |   |   |
| 29          | <i>Salmonella</i>           | Urbana      | Ad501   | Food product                | 4.1 10 <sup>5</sup>   | 2.947     | +       | -                 | -   | / |
|             |                             |             |         |                             | 4*  | No growth |         |                   |   |   |
| 30          | <i>Salmonella</i>           | Enteritidis | Ad 638  | Egg product                 | 3.2 10 <sup>5</sup>   | 0.060     | -       |                   |   |   |

\*: strain tested using the inclusivity study protocol (incubation mTSB Novobiocin (20mg/L) 16 h at 41.5°C)

## Appendix 7 – Inter-laboratory study: results obtained by the collaborative laboratories and the expert laboratory

### Laboratory A

Aerobic mesophilic flora:  $1.2 \cdot 10^5/g$

| N° Sample | Reference method: ISO 16654 |              |       |                      |              | Alternative method: Solus <i>E. coli</i> O157 ELISA |             |         |              |                   |              | Agreement |
|-----------|-----------------------------|--------------|-------|----------------------|--------------|---|-------------|---------|--------------|-------------------|--------------|-----------|
|           | CT-SMAC                     | Colorex O157 | Indol | Latex test (O157/H7) | Final result | O.D.  | Test result | CT-SMAC | Colorex O157 | Latex test (O157) | Final result |           |
| A5        | -                           | -            | /     | /                    | -            | 0.124   | -           | -       | -            | /                 | -            | NA        |
| A9        | +                           | +            | +     | +                    | +            | 0.008   | -           | -       | -            | /                 | -            | ND        |
| A10       | -                           | -            | /     | /                    | -            | 0.007   | -           | +       | +            | -                 | -            | NA        |
| A14       | -                           | -            | /     | /                    | -            | 0.015   | -           | -       | -            | /                 | -            | NA        |
| A18       | +                           | +            | +     | +                    | +            | 0.009   | -           | -       | -            | /                 | -            | ND        |
| A20       | -                           | -            | /     | /                    | -            | 0.016   | -           | -       | -            | /                 | -            | NA        |
| A23       | -                           | -            | /     | /                    | -            | 0.016   | -           | -       | -            | /                 | -            | NA        |
| A24       | -                           | -            | /     | /                    | -            | 0.013   | -           | -       | -            | /                 | -            | NA        |
| A1        | +                           | +            | +     | +                    | +            | 2.959   | +           | +       | +            | +                 | +            | PA        |
| A4        | +                           | +            | +     | +                    | +            | 2.959   | +           | +       | +            | +                 | +            | PA        |
| A7        | +                           | +            | +     | +                    | +            | 2.956   | +           | +       | +            | +                 | +            | PA        |
| A11       | -                           | -            | /     | /                    | -            | 2.917   | +           | +       | +            | +                 | +            | PD        |
| A12       | +                           | +            | +     | +                    | +            | 2.754   | +           | +       | +            | +                 | +            | PA        |
| A16       | +                           | +            | +     | +                    | +            | 2.668   | +           | +       | +            | +                 | +            | PA        |
| A19       | +                           | +            | +     | +                    | +            | 2.307   | +           | +       | +            | +                 | +            | PA        |
| A21       | +                           | +            | +     | +                    | +            | 0.017   | -           | -       | -            | /                 | -            | ND        |
| A2        | +                           | +            | +     | +                    | +            | 2.959   | +           | +       | +            | +                 | +            | PA        |
| A3        | +                           | +            | +     | +                    | +            | 2.959   | +           | +       | +            | +                 | +            | PA        |
| A6        | +                           | +            | +     | +                    | +            | 2.887   | +           | +       | +            | +                 | +            | PA        |
| A8        | +                           | +            | +     | +                    | +            | 2.959   | +           | +       | +            | +                 | +            | PA        |
| A13       | +                           | +            | +     | +                    | +            | 2.829   | +           | +       | +            | +                 | +            | PA        |
| A15       | +                           | +            | +     | +                    | +            | 2.906   | +           | +       | +            | +                 | +            | PA        |
| A17       | +                           | +            | +     | +                    | +            | 2.682   | +           | +       | +            | +                 | +            | PA        |
| A22       | +                           | +            | +     | +                    | +            | 2.859   | +           | +       | +            | +                 | +            | PA        |

**Laboratory B**Aerobic mesophilic flora: 3.1 10<sup>3</sup>/g

| N° Sample | Reference method: ISO 16654 |              |       |                      |              | Alternative method: Solus <i>E. coli</i> O157 ELISA |             |         |              |                   |              | Agreement |
|-----------|-----------------------------|--------------|-------|----------------------|--------------|---|-------------|---------|--------------|-------------------|--------------|-----------|
|           | CT-SMAC                     | Colorex O157 | Indol | Latex test (O157/H7) | Final result | O.D.  | Test result | CT-SMAC | Colorex O157 | Latex test (O157) | Final result |           |
| B5        | -                           | -            | /     | /                    | -            | 0.082   | -           | -       | -            | /                 | -            | NA        |
| B9        | -                           | -            | /     | /                    | -            | -0.000  | -           | -       | -            | /                 | -            | NA        |
| B10       | -                           | -            | /     | /                    | -            | 0.005   | -           | -       | -            | /                 | -            | NA        |
| B14       | -                           | -            | /     | /                    | -            | 0.006   | -           | -       | -            | /                 | -            | NA        |
| B18       | -                           | -            | /     | /                    | -            | 0.001   | -           | -       | -            | /                 | -            | NA        |
| B20       | -                           | -            | /     | /                    | -            | 0.016   | -           | -       | -            | /                 | -            | NA        |
| B23       | -                           | -            | /     | /                    | -            | 0.033   | -           | -       | -            | /                 | -            | NA        |
| B24       | -                           | -            | /     | /                    | -            | 0.089   | -           | -       | -            | /                 | -            | NA        |
| B1        | +                           | +            | +     | +                    | +            | 1.435   | +           | +       | +            | +                 | +            | PA        |
| B4        | +                           | +            | +     | +                    | +            | 2.038   | +           | +       | +            | +                 | +            | PA        |
| B7        | -                           | -            | /     | /                    | -            | 1.639   | +           | +       | +            | +                 | +            | PD        |
| B11       | +                           | +            | +     | +                    | +            | 1.978   | +           | +       | +            | +                 | +            | PA        |
| B12       | +                           | +            | +     | +                    | +            | 1.751   | +           | +       | +            | +                 | +            | PA        |
| B16       | +                           | +            | +     | +                    | +            | 1.877   | +           | +       | +            | +                 | +            | PA        |
| B19       | +                           | +            | +     | +                    | +            | 1.878   | +           | +       | +            | +                 | +            | PA        |
| B21       | -                           | -            | /     | /                    | -            | 1.511   | +           | +       | +            | +                 | +            | PD        |
| B2        | +                           | +            | +     | +                    | +            | 1.923   | +           | +       | +            | +                 | +            | PA        |
| B3        | +                           | +            | +     | +                    | +            | 2.169   | +           | +       | +            | +                 | +            | PA        |
| B6        | +                           | +            | +     | +                    | +            | 1.663   | +           | +       | +            | +                 | +            | PA        |
| B8        | +                           | +            | +     | +                    | +            | 1.532   | +           | +       | +            | +                 | +            | PA        |
| B13       | +                           | +            | +     | +                    | +            | 1.929   | +           | +       | +            | +                 | +            | PA        |
| B15       | +                           | +            | +     | +                    | +            | 1.640   | +           | +       | +            | +                 | +            | PA        |
| B17       | +                           | +            | +     | +                    | +            | 1.805   | +           | +       | +            | +                 | +            | PA        |
| B22       | +                           | +            | +     | +                    | +            | 1.765   | +           | +       | +            | +                 | +            | PA        |

**Laboratory C**Aerobic mesophilic flora:  $1.5 \cdot 10^4/g$ 

| N° Sample | Reference method: ISO 16654 |              |       |                      |              | Alternative method: Solus <i>E. coli</i> O157 ELISA |             |         |              |                   |              | Agreement |
|-----------|-----------------------------|--------------|-------|----------------------|--------------|---|-------------|---------|--------------|-------------------|--------------|-----------|
|           | CT-SMAC                     | Colorex O157 | Indol | Latex test (O157/H7) | Final result | O.D.  | Test result | CT-SMAC | Colorex O157 | Latex test (O157) | Final result |           |
| C5        | -                           | -            | /     | /                    | -            | 0.010   | -           | -       | -            | /                 | -            | NA        |
| C9        | -                           | -            | /     | /                    | -            | 0.395   | +           | -       | -            | /                 | -            | PPNA      |
| C10       | +                           | -            | +     | +                    | +            | 0.013   | -           | -       | -            | /                 | -            | ND        |
| C14       | -                           | -            | /     | /                    | -            | 0.020   | -           | -       | -            | /                 | -            | NA        |
| C18       | -                           | -            | /     | /                    | -            | 0.019   | -           | -       | -            | /                 | -            | NA        |
| C20       | +                           | -            | +     | +                    | +            | 0.029   | -           | -       | -            | /                 | -            | ND        |
| C23       | -                           | -            | /     | /                    | -            | 0.012   | -           | -       | -            | /                 | -            | NA        |
| C24       | +                           | -            | +     | +                    | +            | 0.012   | -           | -       | -            | /                 | -            | ND        |
| C1        | +                           | +            | +     | +                    | +            | 2.958   | +           | +       | +            | +                 | +            | PA        |
| C4        | +                           | +            | +     | +                    | +            | 0.004   | -           | -       | -            | /                 | -            | ND        |
| C7        | +                           | +            | +     | +                    | +            | 2.958   | +           | +       | +            | +                 | +            | PA        |
| C11       | +                           | +            | +     | +                    | +            | 2.958   | +           | +       | +            | +                 | +            | PA        |
| C12       | +                           | +            | +     | +                    | +            | 0.012   | -           | -       | -            | /                 | -            | ND        |
| C16       | +                           | +            | +     | +                    | +            | 2.720   | +           | +       | +            | +                 | +            | PA        |
| C19       | +                           | +            | +     | +                    | +            | 2.721   | +           | +       | -            | +                 | +            | PA        |
| C21       | +                           | +            | +     | +                    | +            | 2.958   | +           | +       | +            | +                 | +            | PA        |
| C2        | +                           | +            | +     | +                    | +            | 2.958   | +           | +       | +            | +                 | +            | PA        |
| C3        | +                           | +            | +     | +                    | +            | 2.958   | +           | +       | +            | +                 | +            | PA        |
| C6        | +                           | +            | +     | +                    | +            | 2.958   | +           | +       | +            | +                 | +            | PA        |
| C8        | +                           | +            | +     | +                    | +            | 2.846   | +           | +       | +            | +                 | +            | PA        |
| C13       | +                           | +            | +     | +                    | +            | 2.958   | +           | +       | +            | +                 | +            | PA        |
| C15       | +                           | +            | +     | +                    | +            | 2.910   | +           | +       | +            | +                 | +            | PA        |
| C17       | +                           | +            | +     | +                    | +            | 2.958   | +           | +       | +            | +                 | +            | PA        |
| C22       | +                           | +            | +     | +                    | +            | 2.904   | +           | +       | +            | +                 | +            | PA        |

**Laboratory D**Aerobic mesophilic flora: *not provided*

| N°<br>Sample | Reference method: ISO 16654 |              |       |                      |              | Alternative method: Solus <i>E. coli</i> O157 ELISA |             |         |              |                   |              | Agreement |
|--------------|-----------------------------|--------------|-------|----------------------|--------------|---|-------------|---------|--------------|-------------------|--------------|-----------|
|              | CT-SMAC                     | Colorex O157 | Indol | Latex test (O157/H7) | Final result | O.D.  | Test result | CT-SMAC | Colorex O157 | Latex test (O157) | Final result |           |
| D5           | -                           | -            | /     | /                    | -            | 0.002   | -           | -       | -            | /                 | -            | NA        |
| D9           | -                           | -            | /     | /                    | -            | 0.008   | -           | -       | -            | /                 | -            | NA        |
| D10          | -                           | -            | /     | /                    | -            | 0.019   | -           | -       | -            | /                 | -            | NA        |
| D14          | -                           | -            | /     | /                    | -            | 0.014   | -           | +       | -            | -                 | -            | NA        |
| D18          | -                           | -            | /     | /                    | -            | 0.005   | -           | -       | -            | /                 | -            | NA        |
| D20          | -                           | -            | /     | /                    | -            | 0.011   | -           | -       | -            | /                 | -            | NA        |
| D23          | -                           | -            | /     | /                    | -            | 0.003   | -           | -       | -            | /                 | -            | NA        |
| D24          | -                           | -            | /     | /                    | -            | 0.008   | -           | -       | -            | /                 | -            | NA        |
| D1           | +                           | +            | +     | +                    | +            | 2.939   | +           | +       | -            | +                 | +            | PA        |
| D4           | +                           | +            | +     | +                    | +            | 2.952   | +           | +       | +            | +                 | +            | PA        |
| D7           | +                           | +            | +     | +                    | +            | 2.952   | +           | +       | +            | +                 | +            | PA        |
| D11          | +                           | +            | +     | +                    | +            | 2.720   | +           | +       | +            | +                 | +            | PA        |
| D12          | +                           | +            | +     | +                    | +            | 2.952   | +           | +       | +            | +                 | +            | PA        |
| D16          | +                           | +            | +     | +                    | +            | 2.952   | +           | +       | +            | +                 | +            | PA        |
| D19          | +                           | +            | +     | +                    | +            | 2.853   | +           | +       | +            | +                 | +            | PA        |
| D21          | -                           | -            | /     | /                    | -            | 2.741   | +           | +       | +            | +                 | +            | PD        |
| D2           | +                           | +            | +     | +                    | +            | 2.952   | +           | +       | +            | +                 | +            | PA        |
| D3           | +                           | +            | +     | +                    | +            | 2.952   | +           | +       | +            | +                 | +            | PA        |
| D6           | +                           | +            | +     | +                    | +            | 2.952   | +           | +       | +            | +                 | +            | PA        |
| D8           | +                           | +            | +     | +                    | +            | 2.952   | +           | +       | +            | +                 | +            | PA        |
| D13          | +                           | +            | +     | +                    | +            | 2.952   | +           | +       | +            | +                 | +            | PA        |
| D15          | +                           | +            | +     | +                    | +            | 2.930   | +           | +       | +            | +                 | +            | PA        |
| D17          | +                           | +            | +     | +                    | +            | 2.952   | +           | +       | +            | +                 | +            | PA        |
| D22          | +                           | +            | +     | +                    | +            | 2.952   | +           | +       | +            | +                 | +            | PA        |

**Laboratory E**Aerobic mesophilic flora: 4.4 10<sup>3</sup>/g

| N° Sample | Reference method: ISO 16654 |              |       |                      |              | Alternative method: Solus <i>E. coli</i> O157 ELISA |             |         |              |                   |              | Agreement |
|-----------|-----------------------------|--------------|-------|----------------------|--------------|---|-------------|---------|--------------|-------------------|--------------|-----------|
|           | CT-SMAC                     | Colorex O157 | Indol | Latex test (O157/H7) | Final result | O.D.  | Test result | CT-SMAC | Colorex O157 | Latex test (O157) | Final result |           |
| E5        | -                           | -            | /     | /                    | -            | 0.016   | -           | -       | -            | /                 | -            | NA        |
| E9        | -                           | -            | /     | /                    | -            | 0.018   | -           | -       | -            | /                 | -            | NA        |
| E10       | -                           | -            | /     | /                    | -            | 0.011   | -           | -       | -            | /                 | -            | NA        |
| E14       | -                           | -            | /     | /                    | -            | 0.015   | -           | +       | -            | -                 | -            | NA        |
| E18       | -                           | -            | /     | /                    | -            | 0.014   | -           | -       | -            | /                 | -            | NA        |
| E20       | -                           | -            | /     | /                    | -            | 0.008   | -           | -       | -            | /                 | -            | NA        |
| E23       | -                           | -            | /     | /                    | -            | 0.013   | -           | -       | -            | /                 | -            | NA        |
| E24       | -                           | -            | /     | /                    | -            | 0.011   | -           | -       | -            | /                 | -            | NA        |
| E1        | +                           | +            | +     | +                    | +            | 2.843   | +           | +       | -            | +                 | +            | PA        |
| E4        | +                           | +            | +     | +                    | +            | 3.000   | +           | +       | +            | +                 | +            | PA        |
| E7        | +                           | +            | +     | +                    | +            | 3.000   | +           | +       | +            | +                 | +            | PA        |
| E11       | +                           | +            | +     | +                    | +            | 3.000   | +           | +       | +            | +                 | +            | PA        |
| E12       | +                           | +            | +     | +                    | +            | 3.000   | +           | +       | +            | +                 | +            | PA        |
| E16       | +                           | +            | +     | +                    | +            | 2.994   | +           | +       | +            | +                 | +            | PA        |
| E19       | +                           | +            | +     | +                    | +            | 3.000   | +           | +       | +            | +                 | +            | PA        |
| E21       | -                           | -            | -     | -                    | -            | 2.788   | +           | +       | +            | +                 | +            | PD        |
| E2        | +                           | +            | +     | +                    | +            | 3.000   | +           | +       | +            | +                 | +            | PA        |
| E3        | +                           | +            | +     | +                    | +            | 3.000   | +           | +       | +            | +                 | +            | PA        |
| E6        | +                           | +            | +     | +                    | +            | 3.000   | +           | +       | +            | +                 | +            | PA        |
| E8        | +                           | +            | +     | +                    | +            | 3.000   | +           | +       | +            | +                 | +            | PA        |
| E13       | +                           | +            | +     | +                    | +            | 3.000   | +           | +       | +            | +                 | +            | PA        |
| E15       | +                           | +            | +     | +                    | +            | 3.000   | +           | +       | +            | +                 | +            | PA        |
| E17       | +                           | +            | +     | +                    | +            | 3.000   | +           | +       | +            | +                 | +            | PA        |
| E22       | +                           | +            | +     | +                    | +            | 3.000   | +           | +       | +            | +                 | +            | PA        |

**Laboratory F**Aerobic mesophilic flora: 9.4 10<sup>3</sup>/g

| N° Sample | Reference method: ISO 16654 |              |       |                      |              | Alternative method: Solus <i>E. coli</i> O157 ELISA |             |         |              |                   |              | Agreement |
|-----------|-----------------------------|--------------|-------|----------------------|--------------|---|-------------|---------|--------------|-------------------|--------------|-----------|
|           | CT-SMAC                     | Colorex O157 | Indol | Latex test (O157/H7) | Final result | O.D.  | Test result | CT-SMAC | Colorex O157 | Latex test (O157) | Final result |           |
| F5        | -                           | -            | /     | /                    | -            | 0.066   | -           | -       | -            | /                 | -            | NA        |
| F9        | -                           | -            | /     | /                    | -            | 0.070   | -           | -       | -            | /                 | -            | NA        |
| F10       | -                           | -            | /     | /                    | -            | 0.018   | -           | -       | -            | /                 | -            | NA        |
| F14       | -                           | -            | /     | /                    | -            | 0.080   | -           | -       | -            | /                 | -            | NA        |
| F18       | -                           | -            | /     | /                    | -            | 0.029   | -           | -       | -            | /                 | -            | NA        |
| F20       | -                           | -            | /     | /                    | -            | 0.295   | +           | -       | -            | /                 | -            | PPNA      |
| F23       | -                           | -            | /     | /                    | -            | 0.051   | -           | -       | -            | /                 | -            | NA        |
| F24       | -                           | -            | /     | /                    | -            | 0.091   | -           | -       | -            | /                 | -            | NA        |
| F1        | +                           | +            | +     | +                    | +            | 2.954   | +           | +       | +            | +                 | +            | PA        |
| F4        | +                           | +            | +     | +                    | +            | 1.928   | +           | +       | +            | +                 | +            | PA        |
| F7        | +                           | +            | +     | +                    | +            | 2.601   | +           | +       | +            | +                 | +            | PA        |
| F11       | +                           | +            | +     | +                    | +            | 0.215   | +           | +       | +            | +                 | +            | PA        |
| F12       | +                           | +            | +     | +                    | +            | 2.211   | +           | +       | +            | +                 | +            | PA        |
| F16       | +                           | +            | +     | +                    | +            | 1.663   | +           | +       | +            | +                 | +            | PA        |
| F19       | +                           | +            | +     | +                    | +            | 0.489   | +           | +       | +            | +                 | +            | PA        |
| F21       | -                           | -            | /     | /                    | -            | 0.074   | -           | -       | -            | /                 | -            | NA        |
| F2        | +                           | +            | +     | +                    | +            | 2.535   | +           | +       | +            | +                 | +            | PA        |
| F3        | +                           | +            | +     | +                    | +            | 1.383   | +           | +       | +            | +                 | +            | PA        |
| F6        | +                           | +            | +     | +                    | +            | 2.385   | +           | +       | +            | +                 | +            | PA        |
| F8        | +                           | +            | +     | +                    | +            | 2.382   | +           | +       | +            | +                 | +            | PA        |
| F13       | +                           | +            | +     | +                    | +            | 2.109   | +           | +       | +            | +                 | +            | PA        |
| F15       | +                           | +            | +     | +                    | +            | 2.244   | +           | +       | +            | +                 | +            | PA        |
| F17       | +                           | +            | +     | +                    | +            | 2.050   | +           | +       | +            | +                 | +            | PA        |
| F22       | +                           | +            | +     | +                    | +            | 2.107   | +           | +       | +            | +                 | +            | PA        |

**Laboratory G**Aerobic mesophilic flora:  $1.9 \times 10^2/g$ 

| N° Sample | Reference method: ISO 16654 |              |       |                      |              | Alternative method: Solus <i>E. coli</i> O157 ELISA |             |         |              |                   |              | Agreement |
|-----------|-----------------------------|--------------|-------|----------------------|--------------|---|-------------|---------|--------------|-------------------|--------------|-----------|
|           | CT-SMAC                     | Colorex O157 | Indol | Latex test (O157/H7) | Final result | O.D.  | Test result | CT-SMAC | Colorex O157 | Latex test (O157) | Final result |           |
| G5        | -                           | -            | /     | /                    | -            | 0.022   | -           | -       | -            | /                 | -            | NA        |
| G9        | -                           | -            | /     | /                    | -            | 0.024   | -           | -       | -            | /                 | -            | NA        |
| G10       | -                           | -            | /     | /                    | -            | 0.013   | -           | -       | -            | /                 | -            | NA        |
| G14       | -                           | -            | /     | /                    | -            | 0.020   | -           | -       | -            | /                 | -            | NA        |
| G18       | -                           | -            | /     | /                    | -            | 0.049   | -           | -       | -            | /                 | -            | NA        |
| G20       | +                           | +            | +     | +                    | +            | 0.032   | -           | -       | -            | /                 | -            | ND        |
| G23       | -                           | -            | /     | /                    | -            | 0.009   | -           | -       | -            | /                 | -            | NA        |
| G24       | -                           | -            | /     | /                    | -            | 0.018   | -           | -       | -            | /                 | -            | NA        |
| G1        | +                           | +            | +     | +                    | +            | 2.893   | +           | +       | +            | +                 | +            | PA        |
| G4        | +                           | +            | +     | +                    | +            | 0.013   | -           | -       | -            | /                 | -            | ND        |
| G7        | +                           | +            | +     | +                    | +            | 2.581   | +           | +       | +            | +                 | +            | PA        |
| G11       | +                           | -            | +     | -                    | -            | 2.536   | +           | +       | +            | +                 | +            | PD        |
| G12       | +                           | +            | +     | +                    | +            | 2.383   | +           | +       | +            | +                 | +            | PA        |
| G16       | +                           | +            | +     | +                    | +            | 0.019   | -           | -       | -            | /                 | -            | ND        |
| G19       | +                           | +            | +     | +                    | +            | 2.875   | +           | +       | +            | +                 | +            | PA        |
| G21       | +                           | +            | +     | +                    | +            | 2.862   | +           | +       | +            | +                 | +            | PA        |
| G2        | +                           | +            | +     | +                    | +            | 2.737   | +           | +       | +            | +                 | +            | PA        |
| G3        | +                           | +            | +     | +                    | +            | 2.929   | +           | +       | +            | +                 | +            | PA        |
| G6        | +                           | +            | +     | +                    | +            | 2.929   | +           | +       | +            | +                 | +            | PA        |
| G8        | +                           | +            | +     | +                    | +            | 1.889   | +           | +       | +            | +                 | +            | PA        |
| G13       | +                           | +            | +     | +                    | +            | 2.929   | +           | +       | +            | +                 | +            | PA        |
| G15       | +                           | +            | +     | +                    | +            | 2.891   | +           | +       | +            | +                 | +            | PA        |
| G17       | +                           | +            | +     | +                    | +            | 2.154   | +           | +       | +            | +                 | +            | PA        |
| G22       | +                           | +            | +     | +                    | +            | 2.918   | +           | +       | +            | +                 | +            | PA        |

**Laboratory H**Aerobic mesophilic flora: 2.6 10<sup>3</sup>/g

| N° Sample | Reference method: ISO 16654 |              |       |                      |              | Alternative method: Solus <i>E. coli</i> O157 ELISA |             |         |              |                   |              | Agreement |
|-----------|-----------------------------|--------------|-------|----------------------|--------------|---|-------------|---------|--------------|-------------------|--------------|-----------|
|           | CT-SMAC                     | Colorex O157 | Indol | Latex test (O157/H7) | Final result | O.D.  | Test result | CT-SMAC | Colorex O157 | Latex test (O157) | Final result |           |
| H5        | -                           | -            | /     | /                    | -            | 0.006   | -           | -       | -            | /                 | -            | NA        |
| H9        | -                           | -            | /     | /                    | -            | 0.229   | +           | -       | -            | /                 | -            | PPNA      |
| H10       | -                           | -            | /     | /                    | -            | 0.002   | -           | -       | -            | /                 | -            | NA        |
| H14       | -                           | -            | /     | /                    | -            | -0.012  | -           | -       | -            | /                 | -            | NA        |
| H18       | -                           | -            | /     | /                    | -            | 0.002   | -           | -       | -            | /                 | -            | NA        |
| H20       | -                           | -            | /     | /                    | -            | 0.001   | -           | -       | -            | /                 | -            | NA        |
| H23       | -                           | -            | /     | /                    | -            | 0.029   | -           | -       | -            | /                 | -            | NA        |
| H24       | -                           | -            | /     | /                    | -            | 0.016   | -           | -       | -            | /                 | -            | NA        |
| H1        | -                           | -            | /     | /                    | -            | -0.025  | -           | -       | -            | /                 | -            | NA        |
| H4        | +                           | +            | +     | +                    | +            | 2.789   | +           | +       | +            | +                 | +            | PA        |
| H7        | +                           | +            | +     | +                    | +            | 2.915   | +           | +       | +            | +                 | +            | PA        |
| H11       | +                           | +            | +     | +                    | +            | -0.008  | -           | -       | -            | /                 | -            | ND        |
| H12       | +                           | +            | +     | +                    | +            | 2.915   | +           | +       | +            | +                 | +            | PA        |
| H16       | +                           | +            | +     | +                    | +            | 2.915   | +           | +       | +            | +                 | +            | PA        |
| H19       | +                           | +            | +     | +                    | +            | 2.756   | +           | +       | +            | +                 | +            | PA        |
| H21       | +                           | +            | +     | +                    | +            | 2.915   | +           | +       | +            | +                 | +            | PA        |
| H2        | +                           | +            | +     | +                    | +            | 2.915   | +           | +       | +            | +                 | +            | PA        |
| H3        | +                           | +            | +     | +                    | +            | 2.893   | +           | +       | +            | +                 | +            | PA        |
| H6        | +                           | +            | +     | +                    | +            | 2.729   | +           | +       | +            | +                 | +            | PA        |
| H8        | +                           | +            | +     | +                    | +            | 2.849   | +           | +       | +            | +                 | +            | PA        |
| H13       | +                           | +            | +     | +                    | +            | 2.908   | +           | +       | +            | +                 | +            | PA        |
| H15       | +                           | +            | +     | +                    | +            | 2.915   | +           | +       | +            | +                 | +            | PA        |
| H17       | +                           | +            | +     | +                    | +            | 2.731   | +           | +       | +            | +                 | +            | PA        |
| H22       | +                           | +            | +     | +                    | +            | 2.915   | +           | +       | +            | +                 | +            | PA        |

**Laboratory J**Aerobic mesophilic flora: 5.2 10<sup>4</sup>/g

| N°<br>Sample | Reference method: ISO 16654 |              |       |                      |              | Alternative method: Solus <i>E. coli</i> O157 ELISA |             |         |              |                   |              | Agreement |
|--------------|-----------------------------|--------------|-------|----------------------|--------------|---|-------------|---------|--------------|-------------------|--------------|-----------|
|              | CT-SMAC                     | Colorex O157 | Indol | Latex test (O157/H7) | Final result | O.D.  | Test result | CT-SMAC | Colorex O157 | Latex test (O157) | Final result |           |
| J5           | +                           | -            | +     | +                    | +            | 0.024   | -           | -       | -            | /                 | -            | ND        |
| J9           | +                           | -            | +     | +                    | +            | 0.017   | -           | -       | -            | /                 | -            | ND        |
| J10          | +                           | -            | +     | +                    | +            | 0.153   | -           | -       | -            | /                 | -            | ND        |
| J14          | +                           | -            | +     | +                    | +            | 2.945 / 0.007                                       | + / -       | -       | -            | /                 | -            | PPND      |
| J18          | +                           | -            | +     | +                    | +            | 0.031   | -           | -       | -            | /                 | -            | ND        |
| J20          | +                           | -            | +     | +                    | +            | 0.046   | -           | -       | -            | /                 | -            | ND        |
| J23          | +                           | -            | +     | +                    | +            | 0.218 / 0.008                                       | + / -       | -       | -            | /                 | -            | PPND      |
| J24          | +                           | -            | +     | +                    | +            | 0.038   | -           | -       | -            | /                 | -            | ND        |
| J1           | +                           | +            | +     | +                    | +            | 1.921   | +           | +       | +            | +                 | +            | PA        |
| J4           | +                           | +            | +     | +                    | +            | 1.701   | +           | +       | +            | +                 | +            | PA        |
| J7           | +                           | +            | +     | +                    | +            | 2.201   | +           | +       | +            | +                 | +            | PA        |
| J11          | +                           | +            | +     | +                    | +            | 1.814   | +           | +       | +            | +                 | +            | PA        |
| J12          | +                           | -            | +     | +                    | +            | 0.030   | -           | -       | -            | /                 | -            | ND        |
| J16          | +                           | +            | +     | +                    | +            | 1.955   | +           | +       | +            | +                 | +            | PA        |
| J19          | +                           | +            | +     | +                    | +            | 1.860   | +           | +       | +            | +                 | +            | PA        |
| J21          | +                           | +            | +     | +                    | +            | 1.508   | +           | +       | +            | +                 | +            | PA        |
| J2           | +                           | +            | +     | +                    | +            | 1.741   | +           | +       | +            | +                 | +            | PA        |
| J3           | +                           | +            | +     | +                    | +            | 1.610   | +           | +       | +            | +                 | +            | PA        |
| J6           | +                           | +            | +     | +                    | +            | 2.945   | +           | +       | +            | +                 | +            | PA        |
| J8           | +                           | +            | +     | +                    | +            | 2.146   | +           | +       | +            | +                 | +            | PA        |
| J13          | +                           | +            | +     | +                    | +            | 1.523   | +           | +       | +            | +                 | +            | PA        |
| J15          | +                           | +            | +     | +                    | +            | 2.078   | +           | +       | +            | +                 | +            | PA        |
| J17          | +                           | +            | +     | +                    | +            | 1.886   | +           | +       | +            | +                 | +            | PA        |
| J22          | +                           | +            | +     | +                    | +            | 2.945   | +           | +       | +            | +                 | +            | PA        |

**Laboratory K**Aerobic mesophilic flora: 2.5 10<sup>4</sup>/g

| N° Sample | Reference method: ISO 16654 |              |       |                      |              | Alternative method: Solus <i>E. coli</i> O157 ELISA |             |            |              |                   |              | Agreement |
|-----------|-----------------------------|--------------|-------|----------------------|--------------|---|-------------|------------|--------------|-------------------|--------------|-----------|
|           | CT-SMAC                     | Colorex O157 | Indol | Latex test (O157/H7) | Final result | O.D.  | Test result | CT-SMAC    | Colorex O157 | Latex test (O157) | Final result |           |
| K5        | -                           | -            | /     | /                    | -            | 0.041   | -           | -          | -            | /                 | -            | NA        |
| K9        | -                           | -            | /     | /                    | -            | 0.022   | -           | -          | -            | /                 | -            | NA        |
| K10       | -                           | -            | /     | /                    | -            | 0.092   | -           | -          | -            | /                 | -            | NA        |
| K14       | -                           | -            | /     | /                    | -            | 0.121   | -           | -          | -            | /                 | -            | NA        |
| K18       | -                           | -            | /     | /                    | -            | 0.055   | -           | -          | -            | /                 | -            | NA        |
| K20       | -                           | -            | /     | /                    | -            | 0.044   | -           | -          | -            | /                 | -            | NA        |
| K23       | -                           | -            | /     | /                    | -            | 0.033   | -           | -          | -            | /                 | -            | NA        |
| K24       | -                           | -            | /     | /                    | -            | 0.041   | -           | -          | -            | /                 | -            | NA        |
| K1        | +                           | +            | +     | +                    | +            | 3.099   | +           | +          | +            | +                 | +            | PA        |
| K4        | +                           | +            | +     | +                    | +            | 2.310   | +           | +          | +            | +                 | +            | PA        |
| K7        | +                           | +            | +     | +                    | +            | 3.006   | +           | +          | +            | +                 | +            | PA        |
| K11       | +                           | +            | +     | +                    | +            | 3.219   | +           | +          | +            | +                 | +            | PA        |
| K12       | +                           | +            | +     | +                    | +            | 2.807   | +           | +          | +            | +                 | +            | PA        |
| K16       | +                           | +            | +     | +                    | +            | 3.064   | +           | +          | +            | +                 | +            | PA        |
| K19       | -                           | -            | /     | /                    | -            | 0.783   | +           | -<br>IMS:+ | -<br>IMS:+   | +                 | +            | PD        |
| K21       | +                           | +            | +     | +                    | +            | 3.247   | +           | +          | +            | +                 | +            | PA        |
| K2        | +                           | +            | +     | +                    | +            | 3.083   | +           | +          | +            | +                 | +            | PA        |
| K3        | +                           | +            | +     | +                    | +            | 3.521   | +           | +          | +            | +                 | +            | PA        |
| K6        | +                           | +            | +     | +                    | +            | 3.123   | +           | +          | +            | +                 | +            | PA        |
| K8        | +                           | +            | +     | +                    | +            | 3.935   | +           | +          | +            | +                 | +            | PA        |
| K13       | +                           | +            | +     | +                    | +            | 3.495   | +           | +          | +            | +                 | +            | PA        |
| K15       | +                           | +            | +     | +                    | +            | 2.665   | +           | +          | +            | +                 | +            | PA        |
| K17       | +                           | +            | +     | +                    | +            | 3.438   | +           | +          | +            | +                 | +            | PA        |
| K22       | +                           | +            | +     | +                    | +            | 2.827   | +           | +          | +            | +                 | +            | PA        |

**Laboratory L**Aerobic mesophilic flora: 2.3 10<sup>5</sup>/g

| N°<br>Sample | Reference method: ISO 16654 |              |       |                      |              | Alternative method: Solus <i>E. coli</i> O157 ELISA |             |         |              |                   |              | Agreement |
|--------------|-----------------------------|--------------|-------|----------------------|--------------|---|-------------|---------|--------------|-------------------|--------------|-----------|
|              | CT-SMAC                     | Colorex O157 | Indol | Latex test (O157/H7) | Final result | O.D.  | Test result | CT-SMAC | Colorex O157 | Latex test (O157) | Final result |           |
| L5           | +                           | -            | +     | +                    | +            | 0.092   | -           | -       | -            | /                 | -            | ND        |
| L9           | -                           | -            | /     | /                    | -            | 0.149   | -           | -       | -            | /                 | -            | NA        |
| L10          | -                           | -            | /     | /                    | -            | 0.097   | -           | +       | -            | -                 | -            | NA        |
| L14          | +                           | -            | +     | +                    | +            | 0.201   | +           | -       | -            | /                 | -            | PPND      |
| L18          | +                           | -            | +     | +                    | +            | 0.074   | -           | -       | -            | /                 | -            | ND        |
| L20          | -                           | -            | /     | /                    | -            | 0.157   | -           | -       | -            | /                 | -            | NA        |
| L23          | +                           | -            | +     | -                    | -            | 0.084   | -           | -       | +            | -                 | -            | NA        |
| L24          | +                           | -            | +     | +                    | +            | 0.257   | +           | -       | -            | /                 | -            | ND        |
| L1           | -                           | -            | /     | /                    | -            | 2.957   | +           | +       | +            | +                 | +            | PD        |
| L4           | +                           | +            | +     | +                    | +            | 2.832   | +           | +       | +            | +                 | +            | PA        |
| L7           | +                           | +            | +     | +                    | +            | 0.104   | -           | +       | -            | -                 | -            | ND        |
| L11          | -                           | -            | /     | /                    | -            | 0.052   | -           | -       | -            | /                 | -            | NA        |
| L12          | +                           | +            | +     | +                    | +            | 2.328   | +           | +       | +            | +                 | +            | PA        |
| L16          | +                           | +            | +     | +                    | +            | 0.070   | -           | -       | -            | /                 | -            | ND        |
| L19          | +                           | -            | +     | +                    | +            | 1.516   | +           | +       | +            | +                 | +            | PA        |
| L21          | +                           | +            | +     | +                    | +            | 0.152   | -           | -       | -            | /                 | -            | ND        |
| L2           | +                           | +            | +     | +                    | +            | 2.773   | +           | +       | +            | +                 | +            | PA        |
| L3           | +                           | +            | +     | +                    | +            | 2.894   | +           | +       | +            | +                 | +            | PA        |
| L6           | +                           | +            | +     | +                    | +            | 2.939   | +           | +       | +            | +                 | +            | PA        |
| L8           | +                           | +            | +     | +                    | +            | 2.910   | +           | +       | +            | +                 | +            | PA        |
| L13          | +                           | +            | +     | +                    | +            | 2.434   | +           | +       | +            | +                 | +            | PA        |
| L15          | +                           | +            | +     | +                    | +            | 2.602   | +           | +       | +            | +                 | +            | PA        |
| L17          | +                           | +            | +     | +                    | +            | 2.607   | +           | +       | +            | +                 | +            | PA        |
| L22          | +                           | +            | +     | +                    | +            | 2.781   | +           | +       | +            | +                 | +            | PA        |

**Laboratory M**Aerobic mesophilic flora: 2.2 10<sup>4</sup>/g

| N° Sample | Reference method: ISO 16654 |              |       |                      |              | Alternative method: Solus <i>E. coli</i> O157 ELISA |             |         |              |                   |              | Agreement |
|-----------|-----------------------------|--------------|-------|----------------------|--------------|---|-------------|---------|--------------|-------------------|--------------|-----------|
|           | CT-SMAC                     | Colorex O157 | Indol | Latex test (O157/H7) | Final result | O.D.  | Test result | CT-SMAC | Colorex O157 | Latex test (O157) | Final result |           |
| M5        | -                           | -            | /     | /                    | -            | 0.013   | -           | -       | -            | /                 | -            | NA        |
| M9        | -                           | -            | /     | /                    | -            | 0.012   | -           | -       | -            | /                 | -            | NA        |
| M10       | -                           | -            | /     | /                    | -            | 0.014   | -           | -       | -            | /                 | -            | NA        |
| M14       | -                           | -            | /     | /                    | -            | 0.026   | -           | -       | -            | /                 | -            | NA        |
| M18       | -                           | -            | /     | /                    | -            | 0.011   | -           | -       | -            | /                 | -            | NA        |
| M20       | -                           | -            | /     | /                    | -            | 0.012   | -           | -       | -            | /                 | -            | NA        |
| M23       | -                           | -            | /     | /                    | -            | 0.018   | -           | -       | -            | /                 | -            | NA        |
| M24       | -                           | -            | /     | /                    | -            | 0.010   | -           | -       | -            | /                 | -            | NA        |
| M1        | -                           | -            | /     | /                    | -            | 3.000   | +           | +       | +            | +                 | +            | PD        |
| M4        | +                           | +            | +     | +                    | +            | 3.000   | +           | +       | +            | +                 | +            | PA        |
| M7        | +                           | +            | +     | +                    | +            | 2.918   | +           | +       | +            | +                 | +            | PA        |
| M11       | +                           | +            | +     | +                    | +            | 0.013   | -           | -       | -            | +                 | -            | ND        |
| M12       | -                           | -            | /     | /                    | -            | 3.000   | +           | +       | +            | +                 | +            | PD        |
| M16       | +                           | +            | +     | +                    | +            | 1.866   | +           | +       | +            | +                 | +            | PA        |
| M19       | +                           | +            | +     | +                    | +            | 2.858   | +           | +       | +            | +                 | +            | PA        |
| M21       | +                           | +            | +     | +                    | +            | 3.000   | +           | +       | +            | +                 | +            | PA        |
| M2        | +                           | +            | +     | +                    | +            | 3.000   | +           | +       | +            | +                 | +            | PA        |
| M3        | +                           | +            | +     | +                    | +            | 3.000   | +           | +       | +            | +                 | +            | PA        |
| M6        | +                           | +            | +     | +                    | +            | 3.000   | +           | +       | +            | +                 | +            | PA        |
| M8        | +                           | +            | +     | +                    | +            | 3.000   | +           | +       | +            | +                 | +            | PA        |
| M13       | +                           | +            | +     | +                    | +            | 3.000   | +           | +       | +            | +                 | +            | PA        |
| M15       | +                           | +            | +     | +                    | +            | 3.000   | +           | +       | +            | +                 | +            | PA        |
| M17       | +                           | +            | +     | +                    | +            | 3.000   | +           | +       | +            | +                 | +            | PA        |
| M22       | +                           | +            | +     | +                    | +            | 3.000   | +           | +       | +            | +                 | +            | PA        |

**Laboratory N (ADRIA)**Aerobic mesophilic flora: 9.0 10<sup>3</sup>/g

| N° Sample | Reference method: ISO 16654♦ |              |       |                      |              | Alternative method: Solus <i>E.coli</i> O157 ELISA |             |         |              |                   |              | Agreement |
|-----------|------------------------------|--------------|-------|----------------------|--------------|--|-------------|---------|--------------|-------------------|--------------|-----------|
|           | CT-SMAC                      | Colorex O157 | Indol | Latex test (O157/H7) | Final result | O.D.   | Test result | CT-SMAC | Colorex O157 | Latex test (O157) | Final result |           |
| N5        | -                            | -            | /     | /                    | -            | 0.073  | -           | -       | -            | /                 | -            | NA        |
| N9        | -                            | -            | /     | /                    | -            | 0.055  | -           | -       | -            | /                 | -            | NA        |
| N10       | -                            | -            | /     | /                    | -            | 0.057  | -           | -       | -            | /                 | -            | NA        |
| N14       | -                            | -            | /     | /                    | -            | 0.054  | -           | -       | -            | /                 | -            | NA        |
| N18       | -                            | -            | /     | /                    | -            | 0.069  | -           | -       | -            | /                 | -            | NA        |
| N20       | +                            | -            | -     | -                    | -            | 0.058  | -           | -       | -            | /                 | -            | NA        |
| N23       | -                            | -            | /     | /                    | -            | 0.056  | -           | -       | -            | /                 | -            | NA        |
| N24       | -                            | -            | /     | /                    | -            | 0.059  | -           | -       | -            | /                 | -            | NA        |
| N1        | +                            | +            | +     | +                    | +            | 2.421  | +           | +       | +            | +                 | +            | PA        |
| N4        | +                            | +            | +     | +                    | +            | 2.492  | +           | +       | +            | +                 | +            | PA        |
| N7        | +                            | +            | +     | +                    | +            | 0.056  | -           | -       | -            | /                 | -            | ND        |
| N11       | +                            | +            | +     | +                    | +            | 0.069  | -           | -       | -            | /                 | -            | ND        |
| N12       | +                            | +            | +     | +                    | +            | 2.371  | +           | +       | +            | +                 | +            | PA        |
| N16       | -                            | -            | -     | /                    | -            | 2.386  | +           | +       | +            | +                 | +            | PD        |
| N19       | +                            | +            | +     | +                    | +            | 2.420  | +           | +       | +            | +                 | +            | PA        |
| N21       | +                            | +            | +     | +                    | +            | 2.366  | +           | +       | +            | +                 | +            | PA        |
| N2        | +                            | +            | +     | +                    | +            | 2.597  | +           | +       | +            | +                 | +            | PA        |
| N3        | +                            | +            | +     | +                    | +            | 2.538  | +           | +       | +            | +                 | +            | PA        |
| N6        | +                            | +            | +     | +                    | +            | 2.327  | +           | +       | +            | +                 | +            | PA        |
| N8        | +                            | +            | +     | +                    | +            | 2.214  | +           | +       | +            | +                 | +            | PA        |
| N13       | +                            | +            | +     | +                    | +            | 2.449  | +           | +       | +            | +                 | +            | PA        |
| N15       | +                            | +            | +     | +                    | +            | 2.198  | +           | +       | +            | +                 | +            | PA        |
| N17       | +                            | +            | +     | +                    | +            | 2.223  | +           | +       | +            | +                 | +            | PA        |
| N22       | +                            | +            | +     | +                    | +            | 2.326  | +           | +       | +            | +                 | +            | PA        |

♦ Analyses performed according to the COFRAC accreditation