

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

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

**BAX® System PCR Assay for *E. coli* O157:H7 MP**  
(Certificate number: QUA 18/04 - 03/08)  
for the detection of *Escherichia coli* O157:H7 in raw beef meat,  
raw milk, fruits and vegetables, ready-to-eat and ready-to-  
reheat dishes and raw pork, ovine and chicken meats

**Qualitative method**

|                           |  |
|---------------------------|--|
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This project consists of 86 pages, including 8 appendices.  
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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 **QUALICON DIAGNOSTICS, LLC**.

The technical protocol and the result interpretation will be carried out according to the EN ISO 16140-2:2016 and the AFNOR technical rules (Revision 6).

|                               |  |
|-------------------------------|--|
| <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 (Revision n° 6)</li> </ul> |
| <b>Reference methods</b> ♦    | <p>NF EN ISO 16654 (July 2001): Microbiology of food and animal feeding stuffs - Horizontal method for the detection of <i>Escherichia coli</i> O157</p> <p>NF EN ISO 16654/A1 (June 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 interlaboratory studies</p>   |
| <b>Alternative method</b>     | <b>BAX® System PCR Assay for <i>E. coli</i> O157:H7 MP</b>   |
| <b>Scope</b>                  | <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> <b>Raw beef meat</b></li> <li><input checked="" type="checkbox"/> <b>Raw milk</b></li> <li><input checked="" type="checkbox"/> <b>Fruits and vegetables</b></li> <li><input checked="" type="checkbox"/> <b>Ready to eat and ready to reheat dishes, raw pork, ovine and chicken meats</b></li> </ul>                                       |
| <b>Certification organism</b> | AFNOR Certification ( <a href="http://nf-validation.afnor.org/">http://nf-validation.afnor.org/</a> )  |

♦ Analyses performed according to the COFRAC accreditation

## 1 INTRODUCTION

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The BAX® System PCR Assay for *E. coli* O157:H7 MP detection was initially validated on March 28<sup>th</sup>, 2008 (Certificate number QUA 18/04 - 03/08) for raw beef meat, raw milk, fruits and vegetables, ready to eat dishes and raw pork, ovine and chicken meats.

Extension and renewal studies were performed as follows:

|               |  |
|---------------|--|
| 2012          | Renewal study according to ISO 16140 (2003)  |
| January 2016  | Extension study for using the BAX® System X5 Instrument  |
| March 2016    | Renewal study according to ISO 16140 (2003)  |
| January 2018  | Extension study for a software modification (from 2.9 to 3.6 of the BAX® System Q7 Instrument) as well as an update to be in agreement with the ISO 16140-2:2016 and the AFNOR technical rules (Revision 6). The data generated during this study were interpreted with both software versions (2.9 versus 3.6). |
| November 2019 | Renewal study  |

## 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 BAX® system is based on the gene amplification of *E. coli* O157:H7 specific nucleic sequences by PCR technology. The reagents necessary for the PCR reaction and for the internal control are included in the same PCR tube.

The BAX® System Q7 Instrument is a system composed of a thermocycler and an optical module detecting the fluorescence. The software program analyses the level of fluorescence and provides result interpretation, *i.e.* positive or negative.

### 2.1.2 Protocols

| Category  | Enrichment broth                                      | Incubation and temperature time | Lysis step | Study design |
|---|---|---------------------------------|------------|--------------|
| Raw beef meat   | Pre-warmed (42°C) BAX® MP broth                       | 8 - 24 h at 42°C ± 1°C          | 20 µl      | Unpaired     |
| Raw milk  | Pre-warmed (41.5°C ± 1°C) mTSB + Novobiocin (20 mg/L) | 18 - 24 h at 41.5°C ± 1°C       | 5 µl       | Paired       |
| Fruits and vegetables   | Pre-warmed (41.5°C ± 1°C) mTSB + Novobiocin (20 mg/L) | 18 - 24 h at 41.5°C ± 1°C       | 5 µl       | Paired       |
| Ready to eat and ready to reheat dishes, raw pork, ovine and chicken meat | Pre-warmed (41.5°C ± 1°C) mTSB + Novobiocin (20 mg/L) | 18 - 24 h at 41.5°C ± 1°C       | 5 µl       | Paired       |

#### - DNA extraction lysis

- \* Addition of 5 µl enriched sample in mTSB + Novobiocin or 20 µl enriched sample in BAX® System MP broth to 200 µl of lysis reagent (150 µl protease + 12 ml lysis buffer)
- \* Heat treatment for 20 min at 37°C ± 2°C and 10 min at 95°C ± 3°C
- \* Cooling for 5 minutes

#### - Amplification

- \* Transfer 50 µl of the lysate in a PCR tube in a frozen (-20°C) cooling block
- \* Run the PCR in the automate. Two PCR cycles can be used, i.e. *E. coli* MP (3h30) and *E. coli* Express (2h30)

#### - Detection

The fluorescence is measured directly by the BAX® System Q7 instrument, which provides positive or negative results. During the extension study performed in 2018, both software versions, 2.9 & 3.6, were used for result interpretation.

- Confirmation of positive results
  - According to the tests described in the reference method;
  - By direct streaking of 50 µl of the enrichment broth onto CT SMAC. The typical colonies are confirmed by the latex test (O1057 and H7) after a purification step on non-selective agar plate;
  - If confirmation is not achieved by the direct streaking protocol, the QUALICON confirmation protocol described in **Appendix 2** and in the technical bulletin MTD-2001 "Confirmation Protocol *E. coli* O157:H7" is applied.

### 2.1.3 Restriction

There is no restriction for use.

### 2.1.4 Reference of the kit insert since the last validation study

The reference of the current kit insert is: INS2025 REV05 .No modification has been made since the last validation study.

## 2.2 Reference method

The initial, extension and renewal studies were run using EN ISO 16654 (2001).

The extension study (2017) was run using EN ISO 16654 (2001) and the NF EN ISO 16654/A1 (2017) methods: Microbiology of food and animal feeding stuffs - Horizontal method for the detection of *Escherichia coli* O157 (See **Appendix 3**).

*The modifications which occur in the version published in 2017 are considered as minor and have no impact on the previous data.*

## 2.3 Study design

The study is an unpaired study design for the protocol using the BAX<sup>®</sup> System MP Media broth; it is a paired study design for the protocol using the mTSB + Novobiocin broth.

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

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#### 3.1 Method comparison study

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

##### 3.1.1 Sensitivity study

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

###### 3.1.1.1 Number and nature of the samples

276 samples were tested for the initial and extension studies run in 2012 and 2016. 28 samples were excluded for the extension study performed in 2018 since either their inoculation levels were too high (>10CFU/test portion) or to allow a maximum percentage of 20% for samples spiked between 5 & 10 CFU/test portion.

For the extension study performed in 2018, 55 samples were tested in order to fulfil the ISO 16140-2:2016 requirements and AFNOR technical rules.

The repartition of the samples per category, protocol and type is presented in **Table 1**.

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

| Category                              | Type                                       | Protocol                     | +                   | -          | Total      |    |
|---------------------------------------|--|------------------------------|---------------------|------------|------------|----|
| 1                                     | Raw beef meat                              | a Raw                        | MP Media 8 h / MP   | 13         | 13         | 26 |
|                                       |  | b Frozen beef meats products | MP Media 8 h / MP   | 8          | 12         | 20 |
|                                       |  | c Seasoned                   | MP Media 8 h / MP   | 19         | 10         | 29 |
|                                       |  | Total                        |                     | 40         | 35         | 75 |
|                                       |  | a Raw                        | MP Media 8 h / MPE  | 9          | 17         | 26 |
|                                       |  | b Frozen beef meats products | MP Media 8 h / MPE  | 8          | 12         | 20 |
|                                       |  | c Seasoned                   | MP Media 8 h / MPE  | 14         | 15         | 29 |
|                                       |  | Total                        |                     | 31         | 44         | 75 |
|                                       |  | a Raw                        | MP Media 24 h / MP  | 14         | 12         | 26 |
|                                       |  | b Frozen beef meats products | MP Media 24 h / MP  | 9          | 11         | 20 |
|                                       |  | c Seasoned                   | MP Media 24 h / MP  | 22         | 7          | 29 |
|                                       |  | Total                        |                     | 45         | 30         | 75 |
|                                       |  | a Raw                        | MP Media 24 h / MPE | 11         | 15         | 26 |
|                                       |  | b Frozen beef meats products | MP Media 24 h / MPE | 9          | 11         | 20 |
|                                       |  | c Seasoned                   | MP Media 24 h / MPE | 17         | 12         | 29 |
|                                       |  | Total                        |                     | 37         | 38         | 75 |
| 2                                     | Raw milk                                   | a Raw milk                   | mTSB / MP           | 35         | 38         | 73 |
|                                       |  | Total                        |                     | 35         | 38         | 73 |
|                                       |  | a Raw milk                   | mTSB / MPE          | 35         | 38         | 73 |
|                                       |  | Total                        |                     | 35         | 38         | 73 |
| 3                                     | Fruits and vegetables                      | a Raw                        | mTSB / MP           | 16         | 10         | 26 |
|                                       |  | b Juices and concentrates    | mTSB / MP           | 7          | 13         | 20 |
|                                       |  | c Fermented                  | mTSB / MP           | 9          | 25         | 34 |
|                                       |  | Total                        |                     | 32         | 48         | 80 |
|                                       |  | a Raw                        | mTSB / MPE          | 16         | 10         | 26 |
|                                       |  | b Juices and concentrates    | mTSB / MPE          | 7          | 13         | 20 |
|                                       |  | c Fermented                  | mTSB / MPE          | 9          | 25         | 34 |
|                                       |  | Total                        |                     | 32         | 48         | 80 |
| 4                                     | RTE, RTRH, Raw meat (pork, chicken, ovine) | a RTE                        | mTSB / MP           | 11         | 13         | 24 |
|                                       |  | b RTRH, RTC                  | mTSB / MP           | 9          | 12         | 21 |
|                                       |  | c Raw meats                  | mTSB / MP           | 12         | 8          | 20 |
|                                       |  | Total                        |                     | 32         | 33         | 65 |
|                                       |  | a RTE                        | mTSB / MPE          | 11         | 13         | 24 |
|                                       |  | b RTRH, RTC                  | mTSB / MPE          | 9          | 12         | 21 |
|                                       |  | c Raw meats                  | mTSB / MPE          | 12         | 8          | 20 |
|                                       |  | Total                        |                     | 32         | 33         | 65 |
| <b>Total mTSB / MP</b>                |  |                              | <b>99</b>           | <b>119</b> | <b>218</b> |    |
| <b>Total mTSB / MPE</b>               |  |                              | <b>99</b>           | <b>119</b> | <b>218</b> |    |
| <b>Total MP Media 8 h / MP</b>        |  |                              | <b>40</b>           | <b>35</b>  | <b>75</b>  |    |
| <b>Total MP Media 8 h / MPE</b>       |  |                              | <b>31</b>           | <b>44</b>  | <b>75</b>  |    |
| <b>Total MP Media 24 h / MP</b>       |  |                              | <b>45</b>           | <b>30</b>  | <b>75</b>  |    |
| <b>Total MP Media 24 h / MPE</b>      |  |                              | <b>37</b>           | <b>38</b>  | <b>75</b>  |    |
| <b>Total mTSB+MP media 8 h / MP</b>   |  |                              | <b>139</b>          | <b>154</b> | <b>293</b> |    |
| <b>Total mTSB+MP media 8 h / MPE</b>  |  |                              | <b>130</b>          | <b>163</b> | <b>293</b> |    |
| <b>Total mTSB+MP media 24 h / MP</b>  |  |                              | <b>144</b>          | <b>149</b> | <b>293</b> |    |
| <b>Total mTSB+MP media 24 h / MPE</b> |  |                              | <b>136</b>          | <b>157</b> | <b>283</b> |    |

**3.1.1.2 Artificial contamination of the samples**

The strains were stressed using various injury protocols. For the spiking protocol, the injured treatment and the efficiency were determined by

enumeration onto selective agar plates (CT-SMAC) and non-selective agar plates (TSYEA). The artificial contaminations are presented in **Appendix 4**.

The repartition of the positive naturally and artificially contaminated samples, per protocol is given in **Table 2**.

**Table 2 - Percentage of positive naturally and artificially contaminated samples per study**

| Method              |                   | Naturally contaminated | Artificially contaminated |            |      |                  |            |      | Total  |
|---------------------|-------------------|------------------------|---------------------------|------------|------|------------------|------------|------|--------|
|                     |                   |                        | Seeding protocol          |            |      | Spiking protocol |            |      |        |
|                     |                   |                        | ≤3                        | 3 ≤ x ≤ 10 | >10  | <5               | 5 < x < 10 | >10  |        |
| mTSB<br>MP          | Number of samples | 0                      | 29                        | 0          | 0    | 44               | 21         | 5    | 99     |
|                     | %                 | 0,0%                   | 29,3%                     | 0,0%       | 0,0% | 44,4%            | 21,2%      | 5,1% | 100,0% |
| mTSB<br>MPE         | Number of samples | 0                      | 29                        | 0          | 0    | 44               | 21         | 5    | 99     |
|                     | %                 | 0,0%                   | 29,3%                     | 0,0%       | 0,0% | 44,4%            | 21,2%      | 5,1% | 100,0% |
| MP Media 8h<br>MP   | Number of samples | 2                      | 0                         | 0          | 0    | 32               | 4          | 2    | 40     |
|                     | %                 | 5,0%                   | 0,0%                      | 0,0%       | 0,0% | 80,0%            | 10,0%      | 5,0% | 100,0% |
| MP Media 8h<br>MPE  | Number of samples | 2                      | 0                         | 0          | 0    | 23               | 4          | 2    | 31     |
|                     | %                 | 6,5%                   | 0,0%                      | 0,0%       | 0,0% | 74,2%            | 12,9%      | 6,5% | 100,0% |
| MP Media 24h<br>MP  | Number of samples | 3                      | 0                         | 0          | 0    | 36               | 4          | 2    | 45     |
|                     | %                 | 6,7%                   | 0,0%                      | 0,0%       | 0,0% | 80,0%            | 8,9%       | 4,4% | 100,0% |
| MP Media 24h<br>MPE | Number of samples | 3                      | 0                         | 0          | 0    | 28               | 4          | 2    | 37     |
|                     | %                 | 8,1%                   | 0,0%                      | 0,0%       | 0,0% | 75,7%            | 10,8%      | 5,4% | 100,0% |
| All products        | Number of samples | 10                     | 58                        | 0          | 0    | 207              | 58         | 18   | 351    |
|                     | %                 | 2,8%                   | 16,5%                     | 0,0%       | 0,0% | 59,0%            | 16,5%      | 5,1% | 100,0% |

**2.8 % of the samples were naturally contaminated.**

### 3.1.1.3 Protocol applied during the validation study

#### Incubation times

The following minimum incubation times were applied:

- mTSB: 18 h
- BAX® System MP media: 8 h and 24 h

#### Confirmation protocols

The confirmations were done by direct streaking of 50µl enrichment broth onto CT-SMAC agar plate.

When needed, the QUALICON's confirmation protocol (Technical bulletin MTD-2001 "Confirmation Protocol for *E. coli* O157:H7") was carried out.

### 3.1.1.4 Tests results

Raw data per category are given in **Appendix 5**.

The results are summarized in **Table 3**.

**Table 3 - Summary of results obtained with the reference and the alternative methods**

| Protocol                       | PA  | NA  | PD | ND | PPND | PPNA | SE <sub>alt</sub> % | SE <sub>ref</sub> % | RT % | FPR % |
|--------------------------------|-----|-----|----|----|------|------|---------------------|---------------------|------|-------|
| Total mTSB / MP                | 95  | 119 | 1  | 3  | 0    | 0    | 97,0                | 99,0                | 98,2 | 0,0   |
| Total mTSB / MPE               | 95  | 119 | 1  | 3  | 0    | 0    | 97,0                | 99,0                | 98,2 | 0,0   |
| Total MP Media 8 h / MP        | 13  | 34  | 21 | 5  | 1    | 1    | 85,0                | 47,5                | 64,0 | 5,7   |
| Total MP Media 8 h / MPE       | 9   | 44  | 12 | 10 | 0    | 0    | 67,7                | 61,3                | 70,7 | 0,0   |
| Total MP Media 24 h / MP       | 17  | 30  | 26 | 2  | 0    | 0    | 95,6                | 42,2                | 62,7 | 0,0   |
| Total MP Media 24 h / MPE      | 16  | 38  | 18 | 3  | 0    | 0    | 91,9                | 51,4                | 72,0 | 0,0   |
| Total mTSB+MP media 8 h / MP   | 108 | 153 | 22 | 8  | 1    | 1    | 93,5                | 84,2                | 89,4 | 1,3   |
| Total mTSB+MP media 8 h / MPE  | 104 | 163 | 13 | 13 | 0    | 0    | 90,0                | 90,0                | 91,1 | 0,0   |
| Total mTSB+MP media 24 h / MP  | 112 | 149 | 27 | 5  | 0    | 0    | 96,5                | 81,3                | 89,1 | 0,0   |
| Total mTSB+MP media 24 h / MPE | 111 | 157 | 19 | 6  | 0    | 0    | 95,6                | 86,0                | 91,5 | 0,0   |

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

The calculations are presented in **Table 4**.

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

| Category |                       | Type  | Protocol                   | PA                  | NA | PD | ND | PPND | PPNA | SE <sub>alt</sub> % | SE <sub>ref</sub> % | RT %  | FPR % |      |     |
|----------|-----------------------|-------|----------------------------|---------------------|----|----|----|------|------|---------------------|---------------------|-------|-------|------|-----|
| 1        | Raw beef meat         | a     | Raw                        | MP Media 8 h / MP   | 6  | 12 | 5  | 1    | 1    | 1                   | 84,6                | 61,5  | 73,1  | 16,7 |     |
|          |                       | b     | Frozen beef meats products | MP Media 8 h / MP   | 3  | 12 | 5  | 0    | 0    | 0                   | 100,0               | 37,5  | 75,0  | 0,0  |     |
|          |                       | c     | Seasoned                   | MP Media 8 h / MP   | 4  | 10 | 11 | 4    | 0    | 0                   | 78,9                | 42,1  | 48,3  | 0,0  |     |
|          |                       | Total |                            |                     |    | 13 | 34 | 21   | 5    | 1                   | 1                   | 85,0  | 47,5  | 64,0 | 5,7 |
|          |                       | a     | Raw                        | MP Media 8 h / MPE  | 2  | 17 | 1  | 6    | 0    | 0                   | 33,3                | 88,9  | 73,1  | 0,0  |     |
|          |                       | b     | Frozen beef meats products | MP Media 8 h / MPE  | 3  | 12 | 5  | 0    | 0    | 0                   | 100,0               | 37,5  | 75,0  | 0,0  |     |
|          |                       | c     | Seasoned                   | MP Media 8 h / MPE  | 4  | 15 | 6  | 4    | 0    | 0                   | 71,4                | 57,1  | 65,5  | 0,0  |     |
|          |                       | Total |                            |                     |    | 9  | 44 | 12   | 10   | 0                   | 0                   | 67,7  | 61,3  | 70,7 | 0,0 |
|          |                       | a     | Raw                        | MP Media 24 h / MP  | 8  | 12 | 6  | 0    | 0    | 0                   | 100,0               | 57,1  | 76,9  | 0,0  |     |
|          |                       | b     | Frozen beef meats products | MP Media 24 h / MP  | 3  | 11 | 6  | 0    | 0    | 0                   | 100,0               | 33,3  | 70,0  | 0,0  |     |
|          |                       | c     | Seasoned                   | MP Media 24 h / MP  | 6  | 7  | 14 | 2    | 0    | 0                   | 90,9                | 36,4  | 44,8  | 0,0  |     |
|          |                       | Total |                            |                     |    | 17 | 30 | 26   | 2    | 0                   | 0                   | 95,6  | 42,2  | 62,7 | 0,0 |
|          |                       | a     | Raw                        | MP Media 24 h / MPE | 7  | 15 | 3  | 1    | 0    | 0                   | 90,9                | 72,7  | 84,6  | 0,0  |     |
|          |                       | b     | Frozen beef meats products | MP Media 24 h / MPE | 3  | 11 | 6  | 0    | 0    | 0                   | 100,0               | 33,3  | 70,0  | 0,0  |     |
|          |                       | c     | Seasoned                   | MP Media 24 h / MPE | 6  | 12 | 9  | 2    | 0    | 0                   | 88,2                | 47,1  | 62,1  | 0,0  |     |
|          |                       | Total |                            |                     |    | 16 | 38 | 18   | 3    | 0                   | 0                   | 91,9  | 51,4  | 72,0 | 0,0 |
| 2        | Raw milk              | a     | Raw milk                   | mTSB / MP           | 32 | 38 | 1  | 2    | 0    | 0                   | 94,3                | 97,1  | 95,9  | 0,0  |     |
|          |                       | Total |                            |                     |    | 32 | 38 | 1    | 2    | 0                   | 0                   | 94,3  | 97,1  | 95,9 | 0,0 |
|          |                       | a     | Raw milk                   | mTSB / MPE          | 32 | 38 | 1  | 2    | 0    | 0                   | 94,3                | 97,1  | 95,9  | 0,0  |     |
|          |                       | Total |                            |                     |    | 32 | 38 | 1    | 2    | 0                   | 0                   | 94,3  | 97,1  | 95,9 | 0,0 |
| 3        | Fruits and vegetables | a     | Raw                        | mTSB / MP           | 16 | 10 | 0  | 0    | 0    | 0                   | 100,0               | 100,0 | 100,0 | 0,0  |     |
|          |                       | b     | Juices and concentrates    | mTSB / MP           | 6  | 9  | 0  | 1    | 0    | 0                   | 85,7                | 100,0 | 93,8  | 0,0  |     |
|          |                       | c     | Fermented                  | mTSB / MP           | 9  | 25 | 0  | 0    | 0    | 0                   | 100,0               | 100,0 | 100,0 | 0,0  |     |
|          |                       | Total |                            |                     |    | 31 | 48 | 0    | 1    | 0                   | 0                   | 96,9  | 100,0 | 98,8 | 0,0 |
|          |                       | a     | Raw                        | mTSB / MPE          | 16 | 10 | 0  | 0    | 0    | 0                   | 100,0               | 100,0 | 100,0 | 0,0  |     |
|          |                       | b     | Juices and concentrates    | mTSB / MPE          | 6  | 9  | 0  | 1    | 0    | 0                   | 85,7                | 100,0 | 93,8  | 0,0  |     |
|          |                       | c     | Fermented                  | mTSB / MPE          | 9  | 25 | 0  | 0    | 0    | 0                   | 100,0               | 100,0 | 100,0 | 0,0  |     |
| Total    |                       |       |                            | 31                  | 48 | 0  | 1  | 0    | 0    | 96,9                | 100,0               | 98,8  | 0,0   |      |     |

| Category                              |  | Type  | Protocol  | PA         | NA         | PD        | ND        | PPND     | PPNA     | SE <sub>alt</sub> % | SE <sub>ref</sub> % | RT %        | FPR %      |     |
|---------------------------------------|--|-------|-----------|------------|------------|-----------|-----------|----------|----------|---------------------|---------------------|-------------|------------|-----|
| 4                                     | RTE, RTRH,<br>Raw meat (pork,<br>chicken, ovine) | a     | RTE       | mTSB / MP  | 11         | 13        | 0         | 0        | 0        | 0                   | 100,0               | 100,0       | 100,0      | 0,0 |
|                                       |  | b     | RTRH, RTC | mTSB / MP  | 9          | 12        | 0         | 0        | 0        | 0                   | 100,0               | 100,0       | 100,0      | 0,0 |
|                                       |  | c     | Raw meats | mTSB / MP  | 12         | 8         | 0         | 0        | 0        | 0                   | 100,0               | 100,0       | 100,0      | 0,0 |
|                                       |  | Total |           |            | 32         | 33        | 0         | 0        | 0        | 0                   | 100,0               | 100,0       | 100,0      | 0,0 |
|                                       |  | a     | RTE       | mTSB / MPE | 11         | 13        | 0         | 0        | 0        | 0                   | 100,0               | 100,0       | 100,0      | 0,0 |
|                                       |  | b     | RTRH, RTC | mTSB / MPE | 9          | 12        | 0         | 0        | 0        | 0                   | 100,0               | 100,0       | 100,0      | 0,0 |
|                                       |  | c     | Raw meats | mTSB / MPE | 12         | 8         | 0         | 0        | 0        | 0                   | 100,0               | 100,0       | 100,0      | 0,0 |
|                                       |  | Total |           |            | 32         | 33        | 0         | 0        | 0        | 0                   | 100,0               | 100,0       | 100,0      | 0,0 |
| <b>Total mTSB / MP</b>                |  |       |           | <b>95</b>  | <b>119</b> | <b>1</b>  | <b>3</b>  | <b>0</b> | <b>0</b> | <b>97,0</b>         | <b>99,0</b>         | <b>98,2</b> | <b>0,0</b> |     |
| <b>Total mTSB / MPE</b>               |  |       |           | <b>95</b>  | <b>119</b> | <b>1</b>  | <b>3</b>  | <b>0</b> | <b>0</b> | <b>97,0</b>         | <b>99,0</b>         | <b>98,2</b> | <b>0,0</b> |     |
| <b>Total MP Media 8 h / MP</b>        |  |       |           | <b>13</b>  | <b>34</b>  | <b>21</b> | <b>5</b>  | <b>1</b> | <b>1</b> | <b>85,0</b>         | <b>47,5</b>         | <b>64,0</b> | <b>5,7</b> |     |
| <b>Total MP Media 8 h / MPE</b>       |  |       |           | <b>9</b>   | <b>44</b>  | <b>12</b> | <b>10</b> | <b>0</b> | <b>0</b> | <b>67,7</b>         | <b>61,3</b>         | <b>70,7</b> | <b>0,0</b> |     |
| <b>Total MP Media 24 h / MP</b>       |  |       |           | <b>17</b>  | <b>30</b>  | <b>26</b> | <b>2</b>  | <b>0</b> | <b>0</b> | <b>95,6</b>         | <b>42,2</b>         | <b>62,7</b> | <b>0,0</b> |     |
| <b>Total MP Media 24 h / MPE</b>      |  |       |           | <b>16</b>  | <b>38</b>  | <b>18</b> | <b>3</b>  | <b>0</b> | <b>0</b> | <b>91,9</b>         | <b>51,4</b>         | <b>72,0</b> | <b>0,0</b> |     |
| <b>Total mTSB+MP media 8 h / MP</b>   |  |       |           | <b>108</b> | <b>153</b> | <b>22</b> | <b>8</b>  | <b>1</b> | <b>1</b> | <b>93,5</b>         | <b>84,2</b>         | <b>89,4</b> | <b>1,3</b> |     |
| <b>Total mTSB+MP media 8 h / MPE</b>  |  |       |           | <b>104</b> | <b>163</b> | <b>13</b> | <b>13</b> | <b>0</b> | <b>0</b> | <b>90,0</b>         | <b>90,0</b>         | <b>91,1</b> | <b>0,0</b> |     |
| <b>Total mTSB+MP media 24 h / MP</b>  |  |       |           | <b>112</b> | <b>149</b> | <b>27</b> | <b>5</b>  | <b>0</b> | <b>0</b> | <b>96,5</b>         | <b>81,3</b>         | <b>89,1</b> | <b>0,0</b> |     |
| <b>Total mTSB+MP media 24 h / MPE</b> |  |       |           | <b>111</b> | <b>157</b> | <b>19</b> | <b>6</b>  | <b>0</b> | <b>0</b> | <b>95,6</b>         | <b>86,0</b>         | <b>91,5</b> | <b>0,0</b> |     |

The overall results obtained for all the categories are presented in **Table 5**.

**Table 5 - Summary of overall results**

|   |  | mTSB +<br>MP media 8 h |        | mTSB +<br>MP media 24 h |        |
|---|--|------------------------|--------|-------------------------|--------|
|   |  | MP                     | MPE    | MP                      | MPE    |
| <b>Sensitivity for the alternative method</b>                               | $SE_{alt} = \frac{(PA + PD)}{(PA + ND + PD)} \times 100\%$ | 93.5 %                 | 90.0 % | 96.5 %                  | 95.6 % |
| <b>Sensitivity for the reference method</b>                                 | $SE_{ref} = \frac{(PA + ND)}{(PA + ND + PD)} \times 100\%$ | 84.2 %                 | 90.0 % | 81.3 %                  | 86.0 % |
| <b>Relative trueness</b>  | $RT = \frac{(PA + NA)}{N} \times 100\%$                    | 89.4 %                 | 91.1 % | 89.1 %                  | 91.5 % |
| <b>False positive ratio for the alternative method*</b><br>FP = PPNA + PPND | $FPR = \frac{(FP)}{NA} \times 100\%$                       | 1.3 %                  | 0.0 %  | 0.0 %                   | 0.0 %  |

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

### 3.1.1.6 Analysis of discordants

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

Table 6 - Negative deviations

| Sample N° | Product                  | Artificial contamination    |                                   | Reference method | Alternative method:<br>BAX® <i>E.coli</i> O157:H7 MP<br>MP Broth 8 h at 42°C |              |              |           | Alternative method:<br>BAX® <i>E.coli</i> O157:H7 MP Express<br>MP Broth 8 h at 42°C |              |              |           | Category | Type |
|-----------|--------------------------|-----------------------------|-----------------------------------|------------------|--|--------------|--------------|-----------|--|--------------|--------------|-----------|----------|------|
|           |                          | Strain                      | Inoculation level<br>(CFU/sample) |                  | PCR  | Confirmation | Final result | Agreement | PCR  | Confirmation | Final result | Agreement |          |      |
| 2569      | Beef meat                | <i>E.coli</i> O157:H7 Ad487 | 1,5                               | +                | +  | +            | +            | PA        | -  | +            | -            | ND        | 1        | c    |
| 2573      | Beef carpaccio           | <i>E.coli</i> O157:H7 R33-9 | <1                                | +                | -  | /            | -            | ND        | -  | /            | -            | ND        | 1        | c    |
| 2576      | Seasoned ground beef     | <i>E.coli</i> O157:H7 B68   | 2                                 | +                | -  | /            | -            | ND        | -  | /            | -            | ND        | 1        | c    |
| 2577      | Seasoned ground beef     | <i>E.coli</i> O157:H7 B68   | 2                                 | +                | -  | /            | -            | ND        | -  | /            | -            | ND        | 1        | c    |
| 2582      | Ground beef              | <i>E.coli</i> O157:H7 Ad487 | 1,5                               | +                | +  | -            | -            | PPND      | -  | -            | -            | ND        | 1        | a    |
| 2585      | Brochettes abats de bœuf | <i>E.coli</i> O157:H7 Ad487 | 1,5                               | +                | -  | /            | -            | ND        | -  | /            | -            | ND        | 1        | a    |
| 2997      | Beef carpaccio           |                             |                                   | +                | -  | /            | -            | ND        | -  | /            | -            | ND        | 1        | c    |
| 2584      | Ground beef              | <i>E.coli</i> O157:H7 Ad487 | 1,5                               | +                | +  | +            | +            | PA        | -  | +            | -            | ND        | 1        | a    |
| 2586      | Ground beef              | <i>E.coli</i> O157:H7 Ad487 | 1,5                               | +                | +  | +            | +            | PA        | -  | +            | -            | ND        | 1        | a    |
| 2587      | Ground beef              | <i>E.coli</i> O157:H7 Ad487 | 1,5                               | +                | +  | +            | +            | PA        | -  | +            | -            | ND        | 1        | a    |

| Sample N° | Product                  | Artificial contamination    |                                   | Reference method | Alternative method:<br>BAX® <i>E.coli</i> O157:H7 MP<br>MP Broth 24 h at 42°C |              |              |           | Alternative method:<br>BAX® <i>E.coli</i> O157:H7 MP Express<br>MP Broth 24 h at 42°C |              |              |           | Category | Type |
|-----------|--------------------------|-----------------------------|-----------------------------------|------------------|---|--------------|--------------|-----------|---|--------------|--------------|-----------|----------|------|
|           |                          | Strain                      | Inoculation level<br>(CFU/sample) |                  | PCR   | Confirmation | Final result | Agreement | PCR   | Confirmation | Final result | Agreement |          |      |
| 2576      | Seasoned ground beef     | <i>E.coli</i> O157:H7 B68   | 2                                 | +                | -   | /            | -            | ND        | -   | /            | -            | ND        | 1        | c    |
| 2585      | Brochettes abats de bœuf | <i>E.coli</i> O157:H7 Ad487 | 1,5                               | +                | +   | +(ims1)      | +            | PA        | -   | +(ims1)      | -            | ND        | 1        | a    |
| 2997      | Beef carpaccio           |                             |                                   | +                | -   | /            | -            | ND        | -   | /            | -            | ND        | 1        | c    |

| Sample N° | Product     | Artificial contamination     |                                   | Reference method | Alternative method:<br>BAX® <i>E.coli</i> O157:H7 MP<br>mTSB + novobiocin 18 h at 41,5°C |              |              |           | Alternative method:<br>BAX® <i>E.coli</i> O157:H7 MP Express<br>mTSB + novobiocin 18 h at 41,5°C |              |              |           | Category | Type |
|-----------|-------------|------------------------------|-----------------------------------|------------------|--|--------------|--------------|-----------|--|--------------|--------------|-----------|----------|------|
|           |             | Strain                       | Inoculation level<br>(CFU/sample) |                  | PCR  | Confirmation | Final result | Agreement | PCR  | Confirmation | Final result | Agreement |          |      |
| 2948      | Raw milk    | <i>E.coli</i> O157:H7 A206RP | 0,4                               | +                | +  | +(ims1)      | +            | PA        | -/-  | +(ims1)      | -            | ND        | 2        | a    |
| 8043      | Raw milk    | <i>E.coli</i> O157:H7 Ad688  | 1,2                               | +                | -  | -            | -            | ND        | -  | -            | -            | ND        | 2        | a    |
| 8050      | Raw milk    | <i>E.coli</i> O157:H7 Ad1745 | 0,8                               | +                | -/+  | +(ims1)      | -            | ND        | +/+  | +(ims1)      | +            | PA        | 2        | a    |
| 2840      | Fruit juice | <i>E.coli</i> O157:H7 LS56   | 1,2                               | +                | -  | /            | -            | ND        | -  | /            | -            | ND        | 3        | b    |

Table 7 - Positive deviations

| Sample N° | Product                        | Artificial contamination      |                                   | Reference method | Alternative method:<br>BAX® <i>E.coli</i> O157:H7 MP<br>MP Broth 8 h at 42°C |              |              |           | Alternative method:<br>BAX® <i>E.coli</i> O157:H7 MP Express<br>MP Broth 8 h at 42°C |              |              |           | Category | Type |
|-----------|--------------------------------|-------------------------------|-----------------------------------|------------------|--|--------------|--------------|-----------|--|--------------|--------------|-----------|----------|------|
|           |                                | Strain                        | Inoculation level<br>(CFU/sample) |                  | PCR  | Confirmation | Final result | Agreement | PCR  | Confirmation | Final result | Agreement |          |      |
| 2579      | Beef skewers                   | <i>E.coli</i> O157:H7 B68     | 2                                 | -                | +  | +(ims 2)     | +            | PD        | -  | -            | -            | NA        | 1        | a    |
| 2581      | Ground beef                    | <i>E.coli</i> O157:H7 B68     | 2                                 | -                | +  | +            | +            | PD        | -  | +            | -            | NA        | 1        | a    |
| 2626      | Beef meat                      | <i>E.coli</i> O157:H7 AV36    | 2,2                               | -                | +  | +            | +            | PD        | -  | +            | -            | NA        | 1        | a    |
| 2631      | Ground beef                    | <i>E.coli</i> O157:H7 A3612   | 1                                 | -                | +  | +            | +            | PD        | -  | +            | -            | NA        | 1        | a    |
| 2634      | Beef meat                      | <i>E.coli</i> O157:H7 B177    | 5                                 | -                | +  | +            | +            | PD        | +  | +            | +            | PD        | 1        | a    |
| 2632      | Frozen ground beef with onions | <i>E.coli</i> O157:H7 A3612   | 1                                 | -                | +  | +            | +            | PD        | +  | +            | +            | PD        | 1        | b    |
| 2723      | Frozen ground beef             | <i>E.coli</i> O157:H7 A19891D | 0-0-0-0-1 (0,8)                   | -                | +  | +            | +            | PD        | +  | +            | +            | PD        | 1        | b    |
| 2729      | Frozen ground beef             | <i>E.coli</i> O157:H7 AQ29-4  | 0,4                               | -                | +  | +(ims1)      | +            | PD        | +  | +(ims1)      | +            | PD        | 1        | b    |
| 2731      | Frozen ground beef             | <i>E.coli</i> O157:H7 AQ29-4  | 0-0-0-1-1 (0,4)                   | -                | +  | +            | +            | PD        | +  | +            | +            | PD        | 1        | b    |
| 2892      | Frozen beef balls              |                               |                                   | -                | +  | +            | +            | PD        | -/+  | +            | -            | NA        | 1        | b    |
| 2893      | Frozen beef balls              |                               |                                   | -                | -/+  | +            | -            | NA        | +  | +            | +            | PD        | 1        | b    |
| 2564      | Seasoned beef balls            | <i>E.coli</i> O157:H7 Ad485   | 2,8                               | -                | +  | +(ims1)      | +            | PD        | -  | -            | -            | NA        | 1        | c    |
| 2565      | Beef balls                     | <i>E.coli</i> O157:H7 Ad485   | 2,8                               | -                | +  | +            | +            | PD        | -  | +            | -            | NA        | 1        | c    |
| 2567      | Seasoned ground beef           | <i>E.coli</i> O157:H7 Ad485   | 2,8                               | -                | +  | +            | +            | PD        | -  | +            | -            | NA        | 1        | c    |
| 2583      | Ground beef with onions        | <i>E.coli</i> O157:H7 Ad487   | 1,5                               | -                | +  | +            | +            | PD        | -  | +            | -            | NA        | 1        | c    |
| 2619      | Seasoned beef balls            | <i>E.coli</i> O157:H7 B177    | 3,8                               | -                | +  | +            | +            | PD        | +  | +            | +            | PD        | 1        | c    |
| 2622      | Beef carpaccio                 | <i>E.coli</i> O157:H7 B177    | 3,8                               | -                | +  | +            | +            | PD        | +  | +            | +            | PD        | 1        | c    |
| 2625      | Beef balls                     | <i>E.coli</i> O157:H7 AV36    | 2,2                               | -                | +  | +            | +            | PD        | +  | +            | +            | PD        | 1        | c    |
| 2629      | Frozen ground beef meat        | <i>E.coli</i> O157:H7 AQ29-4  | 0,4                               | -                | +  | +(ims1)      | +            | PD        | -  | +            | -            | NA        | 1        | c    |
| 2633      | Beef balls                     | <i>E.coli</i> O157:H7 B177    | 5                                 | -                | +  | +(ims1)      | +            | PD        | +  | +(ims1)      | +            | PD        | 1        | c    |
| 2635      | Beef carpaccio with basil      | <i>E.coli</i> O157:H7 B177    | 5                                 | -                | +  | +            | +            | PD        | +  | +            | +            | PD        | 1        | c    |
| 2641      | Beef carpaccio with olives     | <i>E.coli</i> O157:H7 AV36    | 9,2                               | -                | +  | +            | +            | PD        | +  | +            | +            | PD        | 1        | c    |

| Sample N° | Product                   | Artificial contamination      |                                   | Reference method | Alternative method:<br>BAX® <i>E.coli</i> O157:H7 MP<br>MP Broth 24 h at 42°C |              |              |           | Alternative method:<br>BAX® <i>E.coli</i> O157:H7 MP Express<br>MP Broth 24 h at 42°C |              |              |           | Category | Type |
|-----------|---------------------------|-------------------------------|-----------------------------------|------------------|---|--------------|--------------|-----------|---|--------------|--------------|-----------|----------|------|
|           |                           | Strain                        | Inoculation level<br>(CFU/sample) |                  | PCR   | Confirmation | Final result | Agreement | PCR   | Confirmation | Final result | Agreement |          |      |
| 2564      | Seasoned beef meat        | <i>E.coli</i> O157:H7 Ad485   | 2,8                               | -                | +   | +(ims2)      | +            | PD        | +   | +            | +            | PD        | 1        | c    |
| 2565      | Seasoned beef meat        | <i>E.coli</i> O157:H7 Ad485   | 2,8                               | -                | +   | +(ims2)      | +            | PD        | -   | -            | -            | NA        | 1        | c    |
| 2566      | Seasoned beef meat        | <i>E.coli</i> O157:H7 Ad485   | 2,8                               | -                | +   | +            | +            | PD        | -   | +            | -            | NA        | 1        | c    |
| 2567      | Seasoned ground beef meat | <i>E.coli</i> O157:H7 Ad485   | 2,8                               | -                | +   | +            | +            | PD        | -   | +            | -            | NA        | 1        | c    |
| 2572      | Raw ground beef           | <i>E.coli</i> O157:H7 R33-9   | <1                                | -                | +   | +            | +            | PD        | -   | +            | -            | NA        | 1        | a    |
| 2574      | Seasoned beef meat        | <i>E.coli</i> O157:H7 R33-9   | <1                                | -                | +   | +            | +            | PD        | +   | +            | +            | PD        | 1        | c    |
| 2578      | Seasoned ground beef meat | <i>E.coli</i> O157:H7 B68     | 2                                 | -                | +   | +            | +            | PD        | +   | +            | +            | PD        | 1        | b    |
| 2580      | Seasoned ground beef meat | <i>E.coli</i> O157:H7 B68     | 2                                 | -                | +   | +            | +            | PD        | +   | +            | +            | PD        | 1        | c    |
| 2581      | Raw ground beef           | <i>E.coli</i> O157:H7 B68     | 2                                 | -                | +   | +(ims1)      | +            | PD        | +   | +(ims1)      | +            | PD        | 1        | a    |
| 2583      | Seasoned ground beef meat | <i>E.coli</i> O157:H7 Ad487   | 1,5                               | -                | +   | +            | +            | PD        | +   | +            | +            | PD        | 1        | c    |
| 2619      | Seasoned beef meat        | <i>E.coli</i> O157:H7 B177    | 3,8                               | -                | +   | +(ims1)      | +            | PD        | +   | +(ims1)      | +            | PD        | 1        | c    |
| 2622      | Seasoned beef meat        | <i>E.coli</i> O157:H7 B177    | 3,8                               | -                | +   | +            | +            | PD        | +   | +            | +            | PD        | 1        | c    |
| 2623      | Raw ground beef           | <i>E.coli</i> O157:H7 AV36    | 2,2                               | -                | +   | +            | +            | PD        | -   | +            | -            | NA        | 1        | a    |
| 2625      | Raw beef meat             | <i>E.coli</i> O157:H7 AV36    | 2,2                               | -                | +   | +(ims2)      | +            | PD        | -   | -            | -            | NA        | 1        | c    |
| 2626      | Raw beef meat             | <i>E.coli</i> O157:H7 AV36    | 2,2                               | -                | +   | +            | +            | PD        | -   | +            | -            | NA        | 1        | a    |
| 2629      | Seasoned beef meat        | <i>E.coli</i> O157:H7 A3612   | 1                                 | -                | +   | +(ims2)      | +            | PD        | -   | -            | -            | NA        | 1        | c    |
| 2631      | Raw ground beef           | <i>E.coli</i> O157:H7 A3612   | 1                                 | -                | +   | +            | +            | PD        | +   | +            | +            | PD        | 1        | a    |
| 2632      | Seasoned ground beef meat | <i>E.coli</i> O157:H7 A3612   | 1                                 | -                | +   | +            | +            | PD        | +   | +            | +            | PD        | 1        | b    |
| 2633      | Raw beef meat             | <i>E.coli</i> O157:H7 B177    | 5                                 | -                | +   | +(ims2)      | +            | PD        | +   | +(ims2)      | +            | PD        | 1        | c    |
| 2634      | Raw beef meat             | <i>E.coli</i> O157:H7 B177    | 5                                 | -                | +   | +            | +            | PD        | +   | +            | +            | PD        | 1        | a    |
| 2635      | Seasoned beef meat        | <i>E.coli</i> O157:H7 B177    | 5                                 | -                | +   | +            | +            | PD        | +   | +            | +            | PD        | 1        | c    |
| 2641      | Seasoned beef meat        | <i>E.coli</i> O157:H7 AV36    | 9,2                               | -                | +   | +            | +            | PD        | +   | +            | +            | PD        | 1        | c    |
| 2723      | Frozen ground beef meat   | <i>E.coli</i> O157:H7 A19891D | 0-0-0-0-1 (0,8)                   | -                | +   | +            | +            | PD        | +   | +            | +            | PD        | 1        | b    |
| 2731      | Frozen beef meat          | <i>E.coli</i> O157:H7 AQ29-4  | 0-0-0-1-1 (0,4)                   | -                | +   | +            | +            | PD        | +   | +            | +            | PD        | 1        | b    |
| 2892      | Frozen beef meat          |                               |                                   | -                | +   | +(ims2)      | +            | PD        | +   | +(ims2)      | +            | PD        | 1        | b    |
| 2893      | Frozen beef meat          |                               |                                   | -                | +   | +(ims2)      | +            | PD        | +   | +(ims2)      | +            | PD        | 1        | b    |

| Sample N° | Product  | Artificial contamination   |                                   | Reference method | Alternative method:<br>BAX® <i>E.coli</i> O157:H7 MP<br>mTSB + novobiocin 18 h at 41,5°C |              |              |           | Alternative method:<br>BAX® <i>E.coli</i> O157:H7 MP Express<br>mTSB + novobiocin 18 h at 41,5°C |              |              |           | Category | Type |
|-----------|----------|----------------------------|-----------------------------------|------------------|--|--------------|--------------|-----------|--|--------------|--------------|-----------|----------|------|
|           |          | Strain                     | Inoculation level<br>(CFU/sample) |                  | PCR  | Confirmation | Final result | Agreement | PCR  | Confirmation | Final result | Agreement |          |      |
| 2900      | Raw milk | <i>E.coli</i> O157:H7 LS56 | 5-1-5-3-2 (3,2)                   | -                | +  | +(ims2)      | +            | PD        | +  | +(ims2)      | +            | PD        | 2        | a    |

The following discordant results were obtained.

 **MP Media**

- 8 h incubation time
  - 6 negative deviations (MP): the presence of *E.coli* O157:H7 was not confirmed in these samples
  - 10 negative deviations (MPE): the presence of *E.coli* O157:H7 was confirmed for 3 samples
  - 21 positive deviations (MP) and 12 positive deviations (MPE)
  
- 24 h incubation time
  - 2 negative deviations (MP): the presence of *E.coli* O157:H7 was not confirmed in these samples
  - 3 negative deviations (MPE): the presence of *E.coli* O157:H7 was confirmed for 1 sample.
  - 26 positive deviations (MP) ; 18 positive deviations (MPE)

 **mTSB broth**

- 3 negative deviations (MP & MPE): the presence of *E.coli* O157:H7 was confirmed for one sample
- 1 positive deviation for both protocols (MP and MPE)

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

**Table 8 - Analyses of discordant results**

| Category | Type          | Protocol                     | PD                  | ND+PPND | N+ | Paired study |    |              |    | Unpaired study |     | Paired and Unpaired studies |     |     |   |
|----------|---------------|------------------------------|---------------------|---------|----|--------------|----|--------------|----|----------------|-----|-----------------------------|-----|-----|---|
|          |               |                              |                     |         |    | (ND+PPND)-PD | AL | (ND+PPND)+PD | AL | (ND+PPND)-PD   | AL  | (ND+PPND)-PD                | AL  |     |   |
| 1        | Raw beef meat | a Raw                        | MP Media 8 h / MP   | 5       | 2  | 13           |    |              |    |                | -3  |                             | -3  |     |   |
|          |               | b Frozen beef meats products |                     | 5       | 0  | 8            |    |              |    |                | -5  |                             | -5  |     |   |
|          |               | c Seasoned                   |                     | 11      | 4  | 19           |    |              |    |                | -7  |                             | -7  |     |   |
|          |               | Total                        |                     |         | 21 | 6            |    |              |    |                | 40  | -15                         | 3   | -15 | 3 |
|          |               | a Raw                        | MP Media 8 h / MPE  | 1       | 6  | 9            |    |              |    |                | 5   |                             | 5   |     |   |
|          |               | b Frozen beef meats products |                     | 5       | 0  | 8            |    |              |    |                | -5  |                             | -5  |     |   |
|          |               | c Seasoned                   |                     | 6       | 4  | 14           |    |              |    |                | -2  |                             | -2  |     |   |
|          |               | Total                        |                     |         | 12 | 10           |    |              |    |                | 31  | -2                          | 3   | -2  | 3 |
|          |               | a Raw                        | MP Media 24 h / MP  | 6       | 0  | 14           |    |              |    |                | -6  |                             | -6  |     |   |
|          |               | b Frozen beef meats products |                     | 6       | 0  | 9            |    |              |    |                | -6  |                             | -6  |     |   |
|          |               | c Seasoned                   |                     | 14      | 2  | 22           |    |              |    |                | -12 |                             | -12 |     |   |
|          |               | Total                        |                     |         | 26 | 2            |    |              |    |                | 45  | -24                         | 3   | -24 | 3 |
|          |               | a Raw                        | MP Media 24 h / MPE | 3       | 1  | 11           |    |              |    |                | -2  |                             | -2  |     |   |
|          |               | b Frozen beef meats products |                     | 6       | 0  | 9            |    |              |    |                | -6  |                             | -6  |     |   |
|          |               | c Seasoned                   |                     | 9       | 2  | 17           |    |              |    |                | -7  |                             | -7  |     |   |
| Total    |               |                              | 18                  | 3       | 37 | -15          | 3  | -15          | 3  |                |     |                             |     |     |   |
| 2        | Raw milk      | a Raw milk                   | mTSB / MP           | 1       | 2  | 35           | 1  |              | 3  |                |     | 1                           |     |     |   |
|          |               | Total                        |                     |         | 1  | 2            | 35 | 1            | 3  | 3              |     | 6                           | 1   | 3   |   |
|          |               | a Raw milk                   | mTSB / MPE          | 1       | 2  | 35           | 1  |              | 3  |                |     | 1                           |     |     |   |
|          |               | Total                        |                     |         | 1  | 2            | 35 | 1            | 3  | 3              |     | 6                           | 1   | 3   |   |

| Category                              |  |       | Type                    |            | Protocol  |           | Paired study |          |          |              | Unpaired study |              | Paired and Unpaired studies |              |          |              |    |          |
|---------------------------------------|--|-------|-------------------------|------------|-----------|-----------|--------------|----------|----------|--------------|----------------|--------------|-----------------------------|--------------|----------|--------------|----|----------|
|                                       |  |       |                         |            |           |           | PD           | ND+PPND  | N+       | (ND+PPND)-PD | AL             | (ND+PPND)+PD | AL                          | (ND+PPND)-PD | AL       | (ND+PPND)-PD | AL |          |
| 3                                     | Fruits and vegetables                      | a     | Raw                     | mTSB / MP  | 0         | 0         | 16           | 0        |          | 0            |                |              | 0                           |              |          |              |    |          |
|                                       |  | b     | Juices and concentrates |            | 0         | 1         | 7            | 1        |          | 1            |                |              | 1                           |              |          |              |    |          |
|                                       |  | c     | Fermented               |            | 0         | 0         | 9            | 0        |          | 0            |                |              | 0                           |              |          |              |    |          |
|                                       |  | Total |                         |            | 0         | 1         | 32           | 1        | 3        | 1            |                |              | 6                           |              | 1        | 3            |    |          |
|                                       |  | a     | Raw                     | mTSB / MPE | 0         | 0         | 16           | 0        |          | 0            |                |              |                             |              |          | 0            |    |          |
|                                       |  | b     | Juices and concentrates |            | 0         | 1         | 7            | 1        |          | 1            |                |              |                             |              |          | 1            |    |          |
|                                       |  | c     | Fermented               |            | 0         | 0         | 9            | 0        |          | 0            |                |              |                             |              |          | 0            |    |          |
|                                       |  | Total |                         |            | 0         | 1         | 32           | 1        | 3        | 1            |                |              |                             |              |          | 6            |    | 1        |
| 4                                     | RTE, RTRH, Raw meat (pork, chicken, ovine) | a     | RTE                     | mTSB / MP  | 0         | 0         | 11           | 0        |          | 0            |                |              |                             | 0            |          |              |    |          |
|                                       |  | b     | RTRH, RTC               |            | 0         | 0         | 9            | 0        |          | 0            |                |              |                             | 0            |          |              |    |          |
|                                       |  | c     | Raw meats               |            | 0         | 0         | 12           | 0        |          | 0            |                |              |                             | 0            |          |              |    |          |
|                                       |  | Total |                         |            | 0         | 0         | 32           | 0        | 3        | 0            |                |              |                             | 6            |          |              |    | 0        |
|                                       |  | a     | RTE                     | mTSB / MPE | 0         | 0         | 11           | 0        |          | 0            |                |              |                             |              | 0        |              |    |          |
|                                       |  | b     | RTRH, RTC               |            | 0         | 0         | 9            | 0        |          | 0            |                |              |                             |              | 0        |              |    |          |
|                                       |  | c     | Raw meats               |            | 0         | 0         | 12           | 0        |          | 0            |                |              |                             |              | 0        |              |    |          |
|                                       |  | Total |                         |            | 0         | 0         | 32           | 0        | 3        | 0            |                |              |                             |              | 6        |              |    | 0        |
| <b>Total mTSB / MP</b>                |  |       |                         |            | <b>1</b>  | <b>3</b>  | <b>99</b>    | <b>2</b> | <b>5</b> | <b>4</b>     | <b>10</b>      | /            |                             |              | /        | <b>2</b>     |    | <b>5</b> |
| <b>Total mTSB / MPE</b>               |  |       |                         |            | <b>1</b>  | <b>3</b>  | <b>99</b>    | <b>2</b> | <b>5</b> | <b>4</b>     | <b>10</b>      | /            |                             |              | /        | <b>2</b>     |    | <b>5</b> |
| <b>Total MP Media 8 h / MP</b>        |  |       |                         |            | <b>21</b> | <b>6</b>  | <b>40</b>    | /        | /        | /            | /              | <b>-15</b>   |                             |              | <b>3</b> | <b>-15</b>   |    | <b>3</b> |
| <b>Total MP Media 8 h / MPE</b>       |  |       |                         |            | <b>12</b> | <b>10</b> | <b>31</b>    | /        | /        | /            | /              | <b>-2</b>    |                             |              | <b>3</b> | <b>-2</b>    |    | <b>3</b> |
| <b>Total MP Media 24 h / MP</b>       |  |       |                         |            | <b>26</b> | <b>2</b>  | <b>45</b>    | /        | /        | /            | /              | <b>-24</b>   | <b>3</b>                    | <b>-24</b>   | <b>3</b> |              |    |          |
| <b>Total MP Media 24 h / MPE</b>      |  |       |                         |            | <b>18</b> | <b>3</b>  | <b>37</b>    | /        | /        | /            | /              | <b>-15</b>   | <b>3</b>                    | <b>-15</b>   | <b>3</b> |              |    |          |
| <b>Total mTSB+MP media 8 h / MP</b>   |  |       |                         |            |           |           |              |          |          |              |                | <b>-13</b>   | <b>5</b>                    |              |          |              |    |          |
| <b>Total mTSB+MP media 8 h / MPE</b>  |  |       |                         |            |           |           |              |          |          |              |                | <b>0</b>     | <b>5</b>                    |              |          |              |    |          |
| <b>Total mTSB+MP media 24 h / MP</b>  |  |       |                         |            |           |           |              |          |          |              |                | <b>-22</b>   | <b>5</b>                    |              |          |              |    |          |
| <b>Total mTSB+MP media 24 h / MPE</b> |  |       |                         |            |           |           |              |          |          |              |                | <b>-13</b>   | <b>5</b>                    |              |          |              |    |          |

**The observed values for ((ND+PPND)-PD) and (ND+PPND+PD) for the 4 individual categories and for all categories combined meet the acceptability limits (observed values  $\leq$  AL).**

### 3.1.1.7 Confirmations

For a majority of samples, typical colonies were observed by direct streaking onto CT-SMAC.

For the protocol with the mTSB enrichment broth, for 4 samples (MP and MPE) the QUALICON's confirmation protocol (Technical bulletin MTD-2001 "Confirmation Protocol for *E. coli* O157:H7") was used.

The QUALICON confirmation protocol was used for:

- ❑ mTSB: 4 samples (MP and MPE)
- ❑ MP Media:
  - 9 samples (8 h incubation time, MP)
  - 5 samples (8 h incubation time, MPE)
  - 16 samples (24 h incubation time, MP)
  - 10 samples (24 h incubation time, MPE).

In all these cases, the QUALICON confirmation protocol allowed to confirm the presence of *E. coli* O157:H7 in the enrichment broth.

### 3.1.1.8 Inhibitions

Taking into account all studies, 514 DNA extracts were tested. No inhibition was observed.

## 3.1.2 Relative Level of Detection (RLOD)

*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:

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

### 3.1.2.1 Experimental design

Four (matrix/strain) pairs were analyzed by the reference and the alternative methods (See **Table 9**). Four inoculation levels were tested; six replicates of each combination were prepared.

**Table 9 - Defined (matrix/strain) pairs for the RLOD determination**

| Category |                       | Matrix                   | Inoculated strain   | Origin               | Storage condition after inoculation and before analysis | Study design |
|----------|-----------------------|--------------------------|---|----------------------|---|--------------|
| 1        | Raw beef meat         | Ground beef              | <i>E. coli</i> O157:H7 Ad485 (MPE)<br><i>E. coli</i> O157:H7 Ad552 (MP) | Ground beef          | 48 h at 5°C<br>± 3°C                                    | Unpaired     |
| 2        | Raw milk              | Raw milk                 | <i>E. coli</i> O157:H7 R33-9  | Bovine faeces        | /   | Paired       |
| 3        | Fruits and vegetables | Cider                    | <i>E. coli</i> O157:H7 LS56   | Faeces               | /   | Paired       |
| 4        | RTRH, raw meat, pork  | Deli salad (Piémontaise) | <i>E. coli</i> O157:H7 ENV177   | Environmental sample | /   | Paired       |

Contaminations and enumerations were carried out according to the AFNOR technical rules (protocol for low level inoculation). For the initial validation study (categories 2, 3 and 4), the contamination levels were:

- Level 1: 0 CFU/g or ml,
- Level 2: level necessary to obtain 0 to 50 % positive,
- Level 3: level necessary to obtain 50 to 75 % positive,
- Level 4: level necessary to obtain 100 % positive.

For the extension study performed in 20118 (Category 1 - Raw beef meat), the RLOD was run again; the following protocol was carried out:

- 5 negative samples,
- 20 samples inoculated at a level providing fractional positive results,
- 5 samples inoculated at a higher level.

### 3.1.2.2 Calculation

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 10**.

**Table 10 – Presentation of RLOD before and after confirmation of the alternative method results**

| Matrix/Protocol tested | AL  | RLOD  | RLODL | RLODU | b=ln(RLOD) | sd(b) | z-Test statistic | p-value |
|------------------------|-----|-------|-------|-------|------------|-------|------------------|---------|
| Ground beef-8 h-MP     | 2,5 | 1,357 | 0,518 | 3,554 | 0,305      | 0,481 | 0,634            | 0,526   |
| Ground beef-8 h-MPE    | 2,5 | 2,492 | 0,822 | 7,552 | 0,913      | 0,554 | 1,647            | 0,100   |
| Ground beef-24 h-MP    | 2,5 | 1,159 | 0,455 | 2,953 | 0,148      | 0,467 | 0,316            | 0,752   |
| Ground beef-24 h-MPE   | 2,5 | 2,000 | 0,701 | 5,704 | 0,693      | 0,524 | 1,323            | 0,186   |
| Raw milk-MP and MPE    | 1,5 | 1,000 | 0,484 | 2,065 | 0,000      | 0,362 | 0,000            | 1,000   |
| Cider-MP and MPE       | 1,5 | 1,000 | 0,446 | 2,240 | 0,000      | 0,403 | 0,000            | 1,000   |
| Deli salad-MP and MPE  | 1,5 | 1,000 | 0,456 | 2,195 | 0,000      | 0,393 | 0,000            | 1,000   |
| <b>Combined</b>        | /   | 1,285 | 0,910 | 1,814 | 0,251      | 0,172 | 1,455            | 0,146   |

**The RLOD are lower than the Acceptability Limit fixed at 1.5 for a paired study design and at 2.5 for an unpaired study design in all cases.**

The LOD<sub>50</sub> % calculations according to Wilrich & Wilrich POD-LOD calculation program - version 9, 2017-09-23 test are given in Table 11.

**Table 11 - LOD<sub>50</sub> results**

| Name                  | Level of detection at 50% (CFU / sample size) according to Wilrich & Wilrich <sup>1</sup> |                        |                         |
|-----------------------|---|------------------------|-------------------------|
|                       | Reference method  | Alternative method 8 h | Alternative method 24 h |
| Ground beef-MP        | 0,6 [0,3 ;1,1]  | 0,6 [0,3 ;1,1]         | 0,7 [0,3 ;1,3]          |
| Ground beef-MPE       | 0,5 [0,2 ;0,8]  | 0,9 [0,5 ;1,7]         | 0,9 [0,7 ;1,5]          |
| Raw milk-MP and MPE   | 0,9 [0,5 ;1,6]  | 0,9 [0,5 ;1,6]         | 0,9 [0,5 ;1,6]          |
| Cider-MP and MPE      | 0,8 [0,4 ;1,4]  | 0,8 [0,4 ;1,4]         | 0,8 [0,4 ;1,4]          |
| Deli salad-MP and MPE | 0,7 [0,4 ;1,4]  | 0,7 [0,4 ;1,4]         | 0,7 [0,4 ;1,4]          |
| <b>Combined</b>       | 0,7 [0,5 ;0,9]  | 0,8 [0,6 ;1,1]         | 0,8 [0,6 ;1,1]          |

**The LOD<sub>50</sub> varies from 0.5 to 0.8 CFU/25 g for the reference method and from 0.6 to 0.8 CFU/25 g for the alternative method.**

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

### 3.1.3 Inclusivity and exclusivity

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

#### 3.1.3.1 Protocols

##### Inclusivity

50 *Escherichia coli* O157:H7 strains were grown in BHI and diluted in order to inoculate 10 to 100 cells/225 ml MP Media. The broths were incubated for 8 h at 42°C ± 1°C. The protocol of the alternative method was then applied.

##### Exclusivity

36 non-target strains were grown in BHI and inoculated at 10<sup>5</sup> CFU/ml BPW, incubated at 41.5°C for 24 h. The strains were then tested with the alternative method protocol.

#### 3.1.3.2 Results

The raw data are given in **Appendix 6**.

##### Inclusivity

All the strains gave a positive PCR test and characteristic colonies on CT-SMAC plates.

##### Exclusivity

The *Escherichia coli* O55:H7 strain gave a positive PCR test (culture in BPW, mTSB + Novobiocin) but gave atypical colonies on CT-SMAC plates (pink colonies).

### 3.1.4 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 between 2 to 8°C (indicated on the box and on the different reagents).<br>Expiration date is shown on the kit package on the different reagent vials. |           |                             |          |           |
| <b>Time result</b>  | <i>In case of no characteristic colony present on selective agar plates</i>  |           |                             |          |           |
|   | Step   | ISO 16654 | BAX® <i>E. coli</i> O157:H7 |          |           |
|   |  |           | mTSB                        | BAX® 8 h | BAX® 24 h |
|   | Stomaching   | Day 0     | Day 0                       | Day 0    | Day 0     |
|   | IMS 6 h  | Day 0     | /                           | /        | /         |
|   | IMS 24 h   | Day 1     | /                           | /        | /         |
|   | PCR  | /         | Day 1                       | Day 0    | Day 1     |
|   | Obtention negative result  | Day 1     | Day 1                       | Day 0    | Day 1     |
|   | <i>In case of characteristic colony present on selective agar plates and positive PCR result</i>   |           |                             |          |           |
|   | Step   | ISO 16654 | BAX® <i>E. coli</i> O157:H7 |          |           |
|   |  |           | mTSB                        | BAX® 8 h | BAX® 24 h |
|   | Stomaching   | Day 0     | Day 0                       | Day 0    | Day 0     |
|   | IMS 6 h  | Day 0     | /                           | /        | /         |
|   | IMS 24 h   | Day 1     | /                           | /        | /         |
|   | PCR  | /         | Day 1                       | Day 0    | Day 1     |
|   | Streaking onto CT-SMAC   | /         | Day 1                       | Day 0    | Day 1     |
| Streaking onto nutrient agar  | Day 1-Day 2  | Day 2     | Day 1                       | Day 2    |           |
| Indole test   | Day 2-Day 3  | Day 3     | Day 2                       | Day 3    |           |
| Latex test  | Day 3-Day 4  | Day 4     | Day 3                       | Day 4    |           |
| <b>Common step with reference method</b>  | The enrichment step is common with the reference method when the enrichment is run in mTSB broth.  |           |                             |          |           |

Negative results are obtained the day of initiating the analyses for the raw beef meat (8 h incubation time). Positive results (including confirmation) are obtained in 3 or 4 days depending on the confirmation protocol.

### 3.1.5 *Method comparison study conclusion*

The method comparison study conclusions are:

- ☒ **The BAX® System PCR Assay for *E. coli* O157:H7 MP shows satisfying sensitivity. The observed values for ((ND+PPND)-PD) for the 4 individual categories and for all categories meet the acceptability limits (observed values  $\leq$  AL).**
- ☒ **The RLOD are lower than the Acceptability Limit fixed at 1.5 for a paired study design and at 2.5 for an unpaired study design in all cases. The alternative method is specific and selective.**
- ☒ **The inclusivity and exclusivity gave the expected results for the 50 target and 36 non-target strains tested.**

## 3.2 **Inter-laboratory study: organization and results**

### 3.2.1 *Study organisation*

The study was run in 2008.

Samples were sent to 15 laboratories. Frozen raw spinach with cream was inoculated with *Escherichia coli* O157:H7 ATCC 43888.

### 3.2.2 *Experimental parameters controls*

#### 3.2.2.1 *Strain stability*

Strain stability was checked by inoculating the matrix at 20 CFU/g and 90 CFU/25g. Enumerations were performed for the high contamination level and detection analyses were performed for the low contamination level after 24 h storage at  $5 \pm 3^\circ\text{C}$ . The results are given in **Table 12**.

**Table 12 - Sample stability**

| Day of analysis | CFU/25 g (CT-SMAC) |    |     | Detection / 25 g |   |   |
|-----------------|--------------------|----|-----|------------------|---|---|
|                 | 1                  | 2  | 3   | 1                | 2 | 1 |
| Day 0           | 100                | 80 | 130 | +                | + | + |
| Day 1           | 40                 | 40 | 50  | +                | + | + |

An evolution was observed during storage at  $5^{\circ}\text{C} \pm 3^{\circ}\text{C}$  for 24 h (reduction by 50 %).

### 3.2.2.2 Contamination levels

The contamination levels and the sample codification are presented in **Table 13**.

**Table 13 - Contamination levels**

| Level | Samples                     | Theoretical target level (b/25 g) | Inoculated rate at Day 0 (b/25g) | True rate at Day 1 (b/25 g) |
|-------|-----------------------------|-----------------------------------|----------------------------------|-----------------------------|
| 1     | 3, 8, 9, 12, 15, 18, 20, 21 | 0                                 | 0                                | 0                           |
| 2     | 1, 4, 7, 10, 11, 13, 17, 24 | 1 à 10                            | 19                               | 9                           |
| 3     | 2, 5, 6, 14, 16, 19, 22, 23 | 5 à 50                            | 89                               | 43                          |

### 3.2.2.3 Logistic conditions

Temperature conditions are given in **Table 14**.

**Table 14 - Sample temperatures at receipt**

| Collaborators | Temperature measured by the probe ( $^{\circ}\text{C}$ ) | Temperature measured at receipt ( $^{\circ}\text{C}$ ) | Reception date of the samples |
|---------------|--|--|-------------------------------|
| A             | 1,0  | 2,6  | Day 1                         |
| B             | 1,0  | 1,9  | Day 1                         |
| C             | 2,5  | 3,6  | Day 1                         |
| D             | 1,5  | 4,1  | Day 1                         |
| E             | 2,5  | 3,3  | Day 1                         |
| F             | 1,0  | 2,0  | Day 1                         |
| G             | 2,0  | 2,1  | Day 1                         |
| H             | /  | /  | Day 2                         |
| I             | 2,5  | 5,4  | Day 1                         |
| J             | 2,0  | 4,4  | Day 1                         |
| K             | 1,0  | 3,5  | Day 1                         |
| L             | 1,0  | 3,3  | Day 1                         |
| M             | 1,0  | 2,9  | Day 1                         |
| N             | 1,0  | 3,0  | Day 1                         |
| O             | 0,5  | /  | Day 2                         |

All the samples were delivered in good conditions. For 2 collaborators (H and O), the samples were delivered on Day 2.

### 3.2.3 Results analysis

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

#### 3.2.3.1 Expert laboratory results

The results obtained by the expert laboratory are given in **Table 15**.

**Table 15 – Results obtained by the expert Lab.**

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

#### 3.2.3.2 Results observed by the collaborative laboratories

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

Depending on the Lab results, the enumeration levels for the aerobic mesophilic flora varied between 220 and 3300 CFU/g.

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

13 collaborators participated to the study. The 2 collaborators which received their samples on Day 2 did not perform the analyses.

The results are provided in **Table 16** (reference method) and **Table 17** (alternative method).

**Table 16 - Positive results by the reference method**

| Collaborator | Contamination level       |                            |                            |
|--------------|---------------------------|----------------------------|----------------------------|
|              | L0                        | L1                         | L2                         |
| A            | 0                         | 8                          | 8                          |
| B            | 0                         | 5                          | 8                          |
| C            | 0                         | 8                          | 8                          |
| D            | 0                         | 8                          | 8                          |
| E            | 0                         | 8                          | 8                          |
| F            | 0                         | 8                          | 8                          |
| G            | 8                         | 8                          | 8                          |
| I            | 1                         | 8                          | 8                          |
| J            | 0                         | 8                          | 8                          |
| K            | 1                         | 7                          | 8                          |
| L            | 0                         | 8                          | 8                          |
| M            | 0                         | 8                          | 8                          |
| N            | 0                         | 8                          | 8                          |
| <b>TOTAL</b> | <b>P<sub>0</sub> = 10</b> | <b>P<sub>1</sub> = 100</b> | <b>P<sub>2</sub> = 104</b> |

**Table 17 - Positive results (before and after confirmation) by the alternative method**

| Collaborators | Contamination level      |                           |                            |                             |                            |                             |
|---------------|--------------------------|---------------------------|----------------------------|-----------------------------|----------------------------|-----------------------------|
|               | L0                       |                           | L1                         |                             | L2                         |                             |
|               | Before confirmation      | After confirmation        | Before confirmation        | After confirmation          | Before confirmation        | After confirmation          |
| A             | 0                        | 0                         | 8                          | 8                           | 8                          | 8                           |
| B             | 0                        | 0                         | 5                          | 5                           | 8                          | 8                           |
| C             | 0                        | 0                         | 8                          | 8                           | 8                          | 8                           |
| D             | 0                        | 0                         | 8                          | 8                           | 8                          | 8                           |
| E             | 0                        | 0                         | 8                          | 8                           | 8                          | 8                           |
| F             | 0                        | 0                         | 8                          | 8                           | 8                          | 8                           |
| G             | 0                        | 0                         | 8                          | 8                           | 8                          | 8                           |
| I             | 0                        | 0                         | 8                          | 8                           | 8                          | 8                           |
| J             | 0                        | 0                         | 8                          | 8                           | 8                          | 8                           |
| K             | 1                        | 1                         | 7                          | 7                           | 8                          | 8                           |
| L             | 0                        | 0                         | 8                          | 8                           | 8                          | 8                           |
| M             | 0                        | 0                         | 8                          | 8                           | 8                          | 8                           |
| N             | 0                        | 0                         | 8                          | 8                           | 8                          | 8                           |
| <b>TOTAL</b>  | <b>P<sub>0</sub> = 1</b> | <b>CP<sub>0</sub> = 1</b> | <b>P<sub>1</sub> = 100</b> | <b>CP<sub>1</sub> = 100</b> | <b>P<sub>2</sub> = 104</b> | <b>CP<sub>2</sub> = 104</b> |

Lab G obtained positive results by the reference method for all the unspiked samples. This Lab was excluded for interpretation.

For Lab K, there was probably an inversion between Sample K8 (unspiked) positive by both methods and Sample K10 (inoculated at a low level) negative by both methods.

The results from 12 Collaborators were kept for the final interpretation: A, B, C, D, E, F, I, J, K, L, M and N.

### 3.2.4 Results of the collaborators retained for interpretation

The results obtained with the 12 labs kept for interpretation are presented in **Table 18** (reference method) and **Table 19** (alternative method).

**Table 18 - Positive results by the reference method (Without Lab G)**

| Collaborators | Contamination level      |                           |                           |
|---------------|--------------------------|---------------------------|---------------------------|
|               | L0                       | L1                        | L2                        |
| A             | 0                        | 8                         | 8                         |
| B             | 0                        | 5                         | 8                         |
| C             | 0                        | 8                         | 8                         |
| D             | 0                        | 8                         | 8                         |
| E             | 0                        | 8                         | 8                         |
| F             | 0                        | 8                         | 8                         |
| I             | 1                        | 8                         | 8                         |
| J             | 0                        | 8                         | 8                         |
| K             | 1                        | 7                         | 8                         |
| L             | 0                        | 8                         | 8                         |
| M             | 0                        | 8                         | 8                         |
| N             | 0                        | 8                         | 8                         |
| <b>TOTAL</b>  | <b>P<sub>0</sub> = 2</b> | <b>P<sub>1</sub> = 92</b> | <b>P<sub>2</sub> = 96</b> |

**Table 19 - Positive results (before and after confirmation)  
by the alternative methods (Without Lab G)**

| Collaborators | Contamination level      |                           |                           |                            |                           |                            |
|---------------|--------------------------|---------------------------|---------------------------|----------------------------|---------------------------|----------------------------|
|               | L0                       |                           | L1                        |                            | L2                        |                            |
|               | Before confirmation      | After confirmation        | Before confirmation       | After confirmation         | Before confirmation       | After confirmation         |
| A             | 0                        | 0                         | 8                         | 8                          | 8                         | 8                          |
| B             | 0                        | 0                         | 5                         | 5                          | 8                         | 8                          |
| C             | 0                        | 0                         | 8                         | 8                          | 8                         | 8                          |
| D             | 0                        | 0                         | 8                         | 8                          | 8                         | 8                          |
| E             | 0                        | 0                         | 8                         | 8                          | 8                         | 8                          |
| F             | 0                        | 0                         | 8                         | 8                          | 8                         | 8                          |
| I             | 0                        | 0                         | 8                         | 8                          | 8                         | 8                          |
| J             | 0                        | 0                         | 8                         | 8                          | 8                         | 8                          |
| K             | 1                        | 1                         | 7                         | 7                          | 8                         | 8                          |
| L             | 0                        | 0                         | 8                         | 8                          | 8                         | 8                          |
| M             | 0                        | 0                         | 8                         | 8                          | 8                         | 8                          |
| N             | 0                        | 0                         | 8                         | 8                          | 8                         | 8                          |
| <b>TOTAL</b>  | <b>P<sub>0</sub> = 1</b> | <b>CP<sub>0</sub> = 1</b> | <b>P<sub>1</sub> = 92</b> | <b>CP<sub>1</sub> = 92</b> | <b>P<sub>2</sub> = 96</b> | <b>CP<sub>2</sub> = 96</b> |

### 3.2.5 Calculation and interpretation

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

The percentage specificities (SP) of the reference method and of the alternative method, using the data after confirmation, based on the results of level L0 are the following (See **Table 20**).

**Table 20 - Percentage specificity**

|   |   |        |
|---|---|--------|
| <b>Specificity for the reference method</b>   | $SP_{ref} = \left(1 - \left(\frac{P_0}{N_-}\right)\right) \times 100 \% =$  | 97.9 % |
| <b>Specificity for the alternative method</b> | $SP_{alt} = \left(1 - \left(\frac{CP_0}{N_-}\right)\right) \times 100 \% =$ | 99.0 % |

N: number of all L0 tests

P<sub>0</sub> = total number of false-positive results obtained with the blank samples before confirmation

CP<sub>0</sub> = total number of false-positive results obtained with the blank samples

#### 3.2.5.2 Calculation of the sensitivity (SE<sub>alt</sub>), the sensitivity for the reference method (SE<sub>ref</sub>), the relative trueness (RT) and the false positive ratio for the alternative method (FPR)

Fractional positive results were not obtained for this study. The calculations were done with the results obtained for Level 1. A summary of the results obtained by the collaborators with the reference and the alternative methods is provided in **Table 21**.

**Table 21 - Summary of the obtained results with the reference method and the alternative method for Level 1**

| Response                         | Reference method positive (R+)                         | Reference method negative (R-)                         |
|----------------------------------|--|--|
| Alternative method positive (A+) | Positive agreement (A+/R+)<br><b>PA = 92</b>           | Positive deviation (R-/A+)<br><b>PD = 0</b>            |
| Alternative method negative (A-) | Negative deviation (A-/R+)<br><b>ND = 0 (PPND = 0)</b> | Negative agreement (A-/R-)<br><b>NA = 4 (PPNA = 0)</b> |

Based on the data summarized in Table 21, 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 22**).

**Table 22 - Sensitivity, relative trueness and false positive ratio percentages**

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

### 3.2.5.3 Interpretation of data

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

For 12 collaborators, the acceptability limits are the following:

|         | Calculated values | AL | Conclusion   |
|---------|-------------------|----|--------------|
| ND - PD | 0                 | 4  | ND - PD < AL |
| ND + PD | 0                 | 5  | ND + PD < AL |

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

There is indeed no difference between the sensitivity of the compared methods, and the alternative method complies with the reproducibility conditions.

### 3.2.5.4 Evaluation of the RLOD between laboratories

The calculation is not possible as positive results were obtained for uninoculated level.

### 3.2.5.5 Inter-laboratory study conclusion

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

## 4 GENERAL CONCLUSION

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The method comparison study conclusions are:

- The BAX® System PCR Assay for *E. coli* O157:H7 MP shows satisfying sensitivity. The observed values for ((ND+PPND)-PD) for the 4 individual categories and for all categories meet the acceptability limits (observed values  $\leq$  AL).
- The RLOD are lower than the Acceptability Limit fixed at 1.5 for a paired study design and at 2.5 for an unpaired study design in all cases.
- The alternative method is specific and selective.

The inter-laboratory study conclusions are:

- The data and interpretations comply with the EN ISO 16140-2:2016 requirements. **The BAX® System PCR Assay for *E. coli* O157:H7 MP is considered equivalent to the ISO standard.**

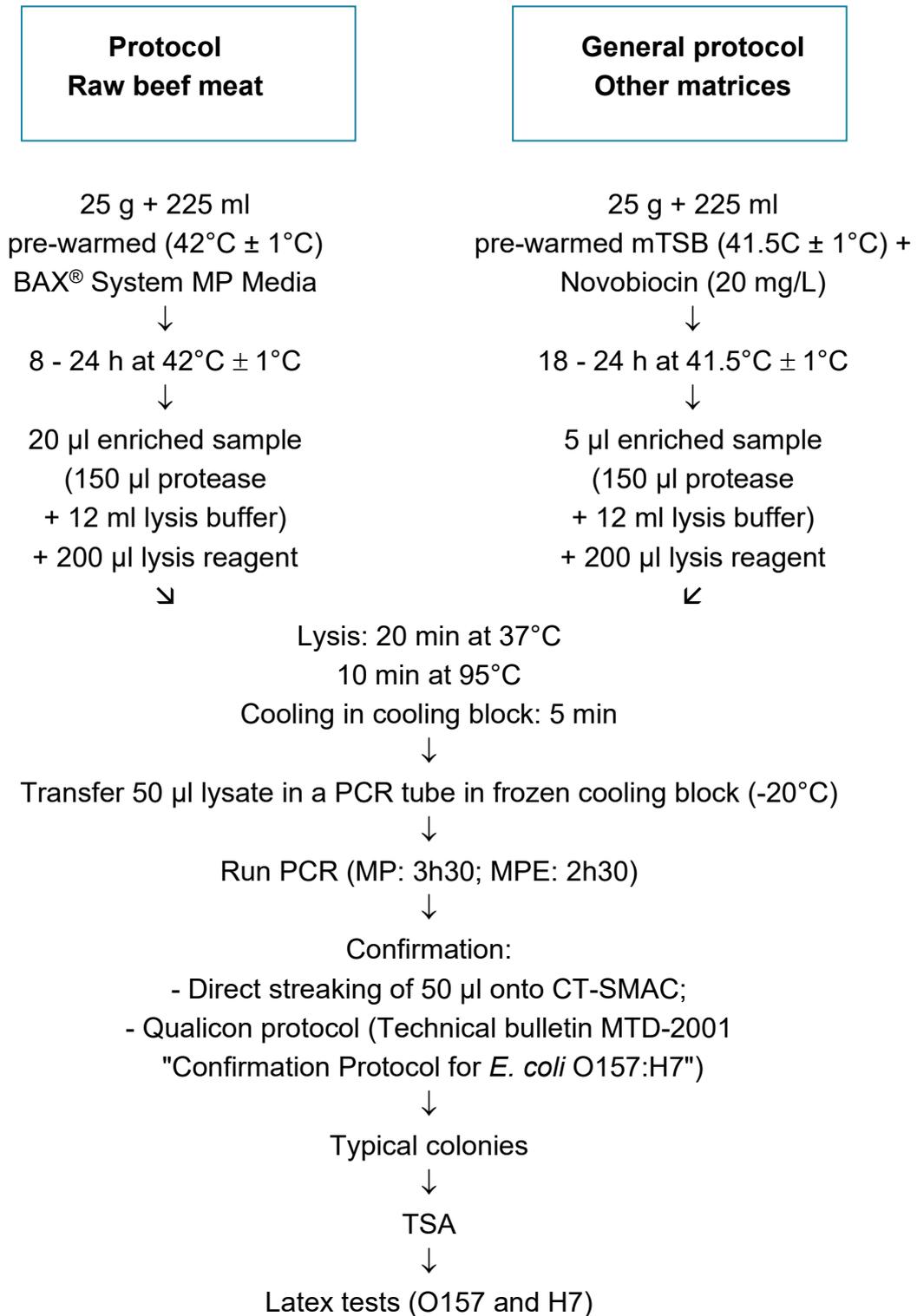
Quimper, 17 December 2019

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

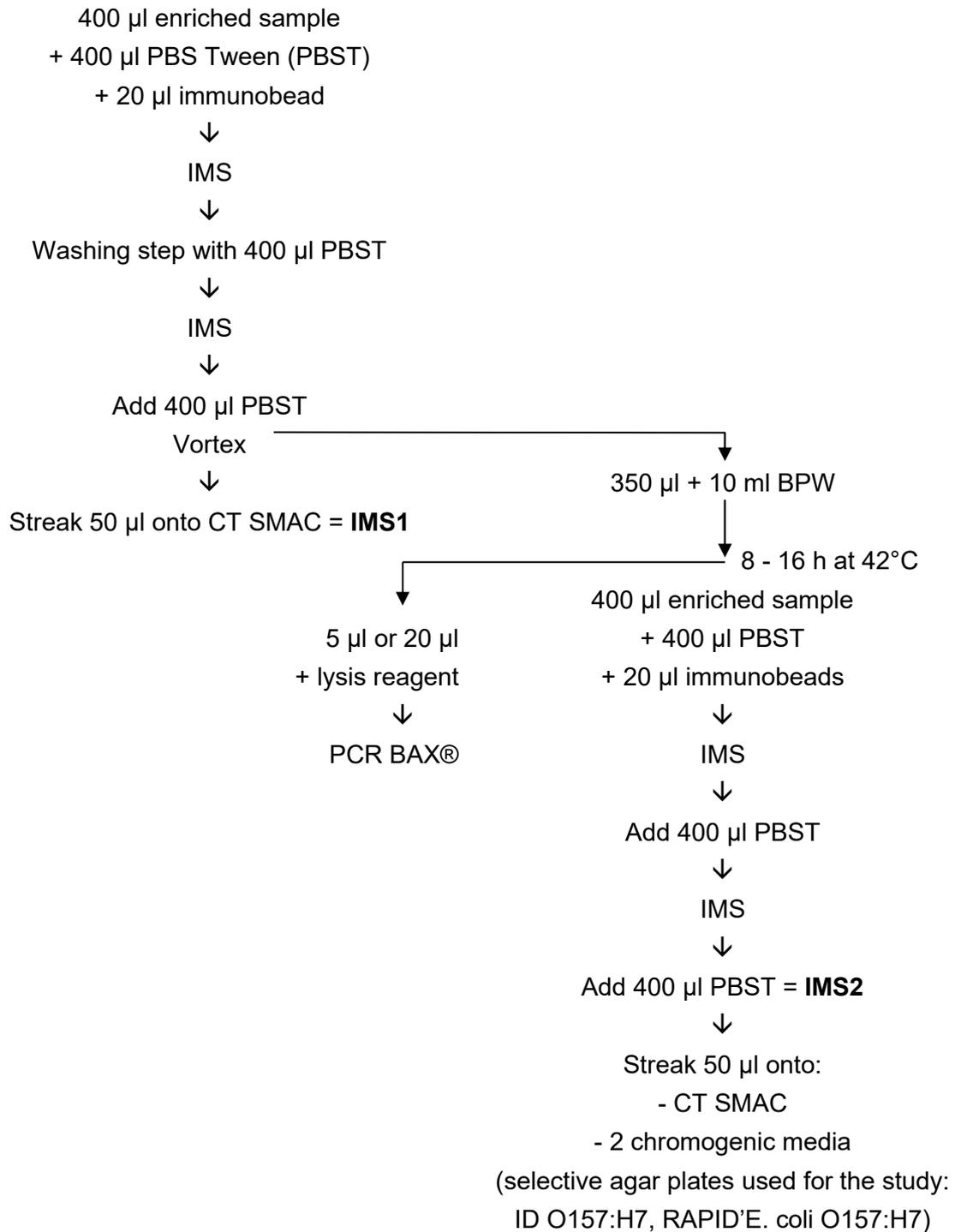


I hereby attest to the validation of the verification of the conformity of the report (opinion and interpretation)

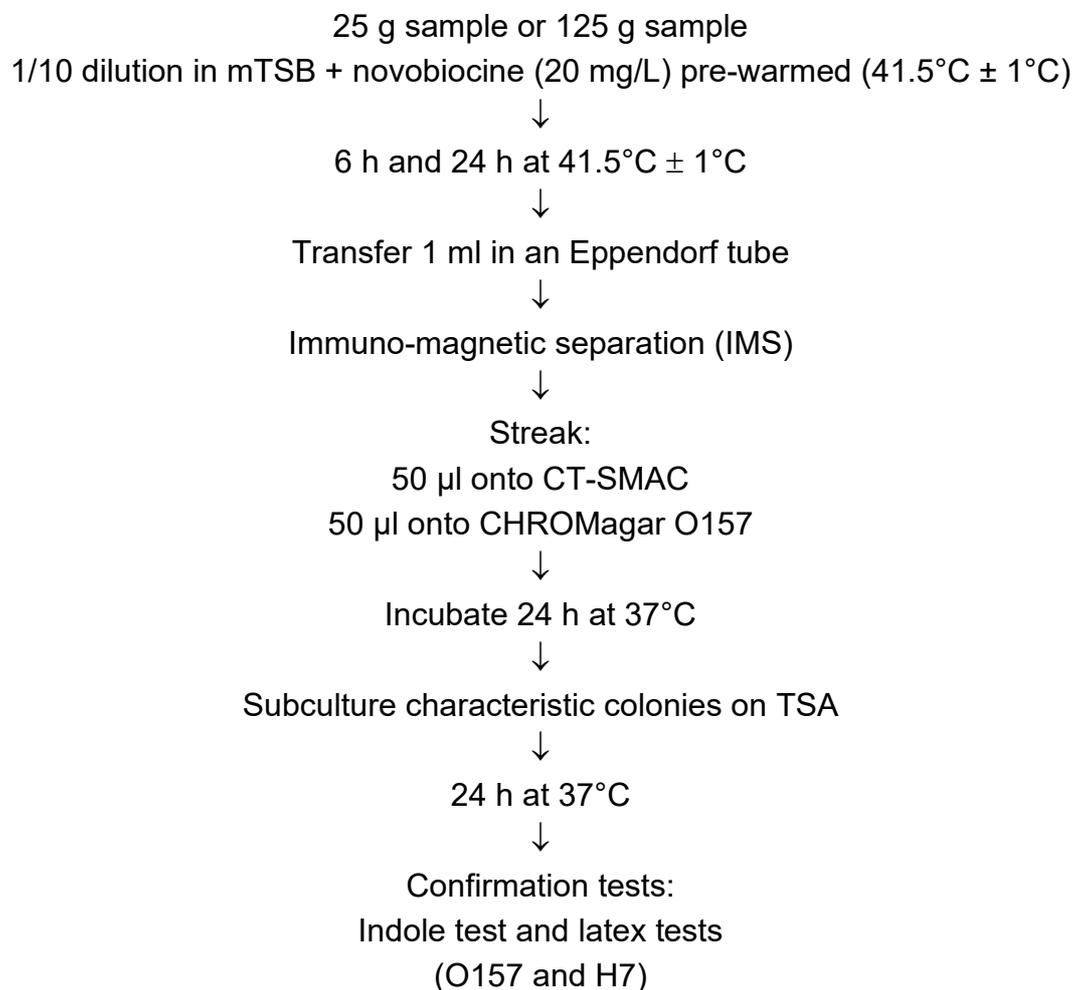
**Appendix 1 – Flow diagram of the alternative method:  
BAX® System PCR Assay for *E. coli* O157:H7 MP**



**Appendix 2 – QUALICON protocol (Technical bulletin MTD-2001  
"Confirmation Protocol for *E. coli* O157:H7")**



**Appendix 3 – Flow diagram of the reference method:**  
**NF EN ISO 16654/A1 (June 2017): Microbiology of food and animal feeding**  
**stuffs - Horizontal method for the detection of *Escherichia coli* O157 -**  
**Amendment 1: annex B: result of interlaboratory studies**



## Appendix 4 – Artificial contamination of samples

2017

| MP Broth 8 h |                 |                             |                             |                |                    |                                |               |            |          |      |
|--------------|-----------------|-----------------------------|-----------------------------|----------------|--------------------|--------------------------------|---------------|------------|----------|------|
| Sample N°    | Product         | Artificial contaminations   |                             |                |                    |                                | Global result |            | Category | Type |
|              |                 | Strain                      | Origin                      | Injury applied | Injury measurement | Inoculation level (CFU/sample) | MP            | MP Express |          |      |
| 2568         | Raw beef meat   | <i>E.coli</i> O157:H7 Ad485 | Ground beef                 | -20°C          | 0,37               | 2,8                            | -             | -          | 1        | a    |
| 2569         | Raw beef meat   | <i>E.coli</i> O157:H7 Ad485 | Ground beef                 | -20°C          | 0,37               | 2,8                            | +             | +          | 1        | a    |
| 2570         | Raw beef meat   | <i>E.coli</i> O157:H7 R33-9 | Bovine environmental sample | -20°C          | >1,11              | <1                             | -             | -          | 1        | a    |
| 2572         | Raw ground beef | <i>E.coli</i> O157:H7 R33-9 | Bovine environmental sample | -20°C          | >1,11              | <1                             | -             | -          | 1        | a    |
| 2575         | Raw ground beef | <i>E.coli</i> O157:H7 R33-9 | Bovine environmental sample | -20°C          | >1,11              | <1                             | -             | -          | 1        | a    |
| 2579         | Raw beef meat   | <i>E.coli</i> O157:H7 B68   | Surface sample              | -20°C          | 0,6                | 2                              | +             | -          | 1        | a    |
| 2581         | Raw ground beef | <i>E.coli</i> O157:H7 B68   | Surface sample              | -20°C          | 0,6                | 2                              | +             | -          | 1        | a    |
| 2582         | Raw ground beef | <i>E.coli</i> O157:H7 Ad487 | Ground beef                 | -20°C          | 0,43               | 1,5                            | +             | +          | 1        | a    |
| 2584         | Raw ground beef | <i>E.coli</i> O157:H7 Ad487 | Ground beef                 | -20°C          | 0,43               | 1,5                            | +             | +          | 1        | a    |
| 2585         | Raw ground beef | <i>E.coli</i> O157:H7 Ad487 | Ground beef                 | -20°C          | 0,43               | 1,5                            | +             | +          | 1        | a    |
| 2586         | Raw ground beef | <i>E.coli</i> O157:H7 Ad487 | Ground beef                 | -20°C          | 0,43               | 1,5                            | +             | +          | 1        | a    |
| 2587         | Raw ground beef | <i>E.coli</i> O157:H7 Ad487 | Ground beef                 | -20°C          | 0,43               | 1,5                            | +             | +          | 1        | a    |
| 2620         | Raw beef meat   | <i>E.coli</i> O157:H7 B177  | Surface sample              | -20°C          | 0,89               | 3,8                            | -             | -          | 1        | a    |
| 2621         | Raw ground beef | <i>E.coli</i> O157:H7 B177  | Surface sample              | -20°C          | 0,89               | 3,8                            | -             | -          | 1        | a    |
| 2623         | Raw ground beef | <i>E.coli</i> O157:H7 AV36  | Surface sample              | -20°C          | 1,03               | 2,2                            | -             | -          | 1        | a    |
| 2626         | Raw beef meat   | <i>E.coli</i> O157:H7 AV36  | Surface sample              | -20°C          | 1,03               | 2,2                            | +             | -          | 1        | a    |
| 2628         | Raw ground beef | <i>E.coli</i> O157:H7 A3612 | Ground beef                 | -20°C          | 1,22               | 1                              | -             | -          | 1        | a    |
| 2631         | Raw ground beef | <i>E.coli</i> O157:H7 A3612 | Ground beef                 | -20°C          | 1,22               | 1                              | +             | -          | 1        | a    |
| 2634         | Raw beef meat   | <i>E.coli</i> O157:H7 B177  | Surface sample              | 4°C            | 0,97               | 5                              | +             | +          | 1        | a    |
| 2637         | Raw ground beef | <i>E.coli</i> O157:H7 B177  | Surface sample              | 4°C            | 0,97               | 5                              | +             | +          | 1        | a    |

| MP Broth 8 h |                           |                               |                             |                |                    |                                |               |            |          |      |
|--------------|---------------------------|-------------------------------|-----------------------------|----------------|--------------------|--------------------------------|---------------|------------|----------|------|
| Sample N°    | Product                   | Artificial contaminations     |                             |                |                    |                                | Global result |            | Category | Type |
|              |                           | Strain                        | Origin                      | Injury applied | Injury measurement | Inoculation level (CFU/sample) | MP            | MP Express |          |      |
| 2640         | Raw ground beef           | <i>E.coli</i> O157:H7 AV36    | Surface sample              | 4°C            | 1,23               | 9,2                            | +             | +          | 1        | a    |
| 2578         | Seasoned ground beef meat | <i>E.coli</i> O157:H7 B68     | Surface sample              | -20°C          | 0,6                | 2                              | -             | -          | 1        | b    |
| 2632         | Seasoned ground beef meat | <i>E.coli</i> O157:H7 A3612   | Ground beef                 | -20°C          | 1,22               | 1                              | +             | +          | 1        | b    |
| 2638         | Seasoned ground beef meat | <i>E.coli</i> O157:H7 AV36    | Surface sample              | 4°C            | 1,23               | 9,2                            | +             | +          | 1        | b    |
| 2723         | Frozen ground beef meat   | <i>E.coli</i> O157:H7 A19891D | Ground beef                 | -20°C          | 1,4                | 0-0-0-0-1 (0,8)                | +             | +          | 1        | b    |
| 2724         | Frozen ground beef meat   | <i>E.coli</i> O157:H7 A19891D | Ground beef                 | -20°C          | 1,4                | 0-0-0-0-1 (0,8)                | -             | -          | 1        | b    |
| 2725         | Frozen ground beef meat   | <i>E.coli</i> O157:H7 A19891D | Ground beef                 | -20°C          | 1,4                | 0-0-0-0-1 (0,8)                | -             | -          | 1        | b    |
| 2726         | Frozen ground beef meat   | <i>E.coli</i> O157:H7 AMTV6   | Clinic (feces)              | -20°C          | 1,45               | 19-22-22-19-18 (20,0)          | +             | +          | 1        | b    |
| 2727         | Frozen ground beef meat   | <i>E.coli</i> O157:H7 AMTV6   | Clinic (feces)              | -20°C          | 1,45               | 19-22-22-19-18 (20,0)          | +             | +          | 1        | b    |
| 2729         | Frozen ground beef meat   | <i>E.coli</i> O157:H7 AQ29-4  | Bovine feces                | -20°C          | 1,41               | 0-0-0-1-1 (0,4)                | +             | +          | 1        | b    |
| 2730         | Frozen ground beef meat   | <i>E.coli</i> O157:H7 AQ29-4  | Bovine feces                | -20°C          | 1,41               | 0-0-0-1-1 (0,4)                | -             | -          | 1        | b    |
| 2731         | Frozen beef meat          | <i>E.coli</i> O157:H7 AQ29-4  | Bovine feces                | -20°C          | 1,41               | 0-0-0-1-1 (0,4)                | +             | +          | 1        | b    |
| 2564         | Seasoned beef meat        | <i>E.coli</i> O157:H7 Ad485   | Ground beef                 | -20°C          | 0,37               | 2,8                            | +             | -          | 1        | c    |
| 2565         | Seasoned beef meat        | <i>E.coli</i> O157:H7 Ad485   | Ground beef                 | -20°C          | 0,37               | 2,8                            | +             | -          | 1        | c    |
| 2566         | Seasoned beef meat        | <i>E.coli</i> O157:H7 Ad485   | Ground beef                 | -20°C          | 0,37               | 2,8                            | -             | -          | 1        | c    |
| 2567         | Seasoned ground beef meat | <i>E.coli</i> O157:H7 Ad485   | Ground beef                 | -20°C          | 0,37               | 2,8                            | +             | -          | 1        | c    |
| 2571         | Seasoned beef meat        | <i>E.coli</i> O157:H7 R33-9   | Bovine environmental sample | -20°C          | >1,11              | <1                             | -             | -          | 1        | c    |
| 2573         | Seasoned beef meat        | <i>E.coli</i> O157:H7 R33-9   | Bovine environmental sample | -20°C          | >1,11              | <1                             | +             | +          | 1        | c    |
| 2574         | Seasoned beef meat        | <i>E.coli</i> O157:H7 R33-9   | Bovine environmental sample | -20°C          | >1,11              | <1                             | -             | -          | 1        | c    |
| 2576         | Seasoned ground beef meat | <i>E.coli</i> O157:H7 B68     | Surface sample              | -20°C          | 0,6                | 2                              | +             | +          | 1        | c    |
| 2577         | Seasoned ground beef meat | <i>E.coli</i> O157:H7 B68     | Surface sample              | -20°C          | 0,6                | 2                              | +             | +          | 1        | c    |
| 2580         | Seasoned ground beef meat | <i>E.coli</i> O157:H7 B68     | Surface sample              | -20°C          | 0,6                | 2                              | -             | -          | 1        | c    |
| 2583         | Seasoned ground beef meat | <i>E.coli</i> O157:H7 Ad487   | Ground beef                 | -20°C          | 0,43               | 1,5                            | +             | -          | 1        | c    |

| MP Broth 8 h |                           |                             |                |                |                    |                                |               |            |          |      |
|--------------|---------------------------|-----------------------------|----------------|----------------|--------------------|--------------------------------|---------------|------------|----------|------|
| Sample N°    | Product                   | Artificial contaminations   |                |                |                    |                                | Global result |            | Category | Type |
|              |                           | Strain                      | Origin         | Injury applied | Injury measurement | Inoculation level (CFU/sample) | MP            | MP Express |          |      |
| 2618         | Seasoned ground beef meat | <i>E.coli</i> O157:H7 B177  | Surface sample | -20°C          | 0,89               | 3,8                            | +             | +          | 1        | c    |
| 2619         | Seasoned beef meat        | <i>E.coli</i> O157:H7 B177  | Surface sample | -20°C          | 0,89               | 3,8                            | +             | +          | 1        | c    |
| 2622         | Seasoned beef meat        | <i>E.coli</i> O157:H7 B177  | Surface sample | -20°C          | 0,89               | 3,8                            | +             | +          | 1        | c    |
| 2625         | Raw beef meat             | <i>E.coli</i> O157:H7 AV36  | Surface sample | -20°C          | 1,03               | 2,2                            | +             | +          | 1        | c    |
| 2627         | Seasoned ground beef meat | <i>E.coli</i> O157:H7 AV36  | Surface sample | -20°C          | 1,03               | 2,2                            | -             | -          | 1        | c    |
| 2629         | Seasoned beef meat        | <i>E.coli</i> O157:H7 A3612 | Ground beef    | -20°C          | 1,22               | 1                              | +             | -          | 1        | c    |
| 2630         | Raw beef meat             | <i>E.coli</i> O157:H7 A3612 | Ground beef    | -20°C          | 1,22               | 1                              | +             | +          | 1        | c    |
| 2633         | Raw beef meat             | <i>E.coli</i> O157:H7 B177  | Surface sample | 4°C            | 0,97               | 5                              | +             | +          | 1        | c    |
| 2635         | Seasoned beef meat        | <i>E.coli</i> O157:H7 B177  | Surface sample | 4°C            | 0,97               | 5                              | +             | +          | 1        | c    |
| 2636         | Seasoned ground beef meat | <i>E.coli</i> O157:H7 B177  | Surface sample | 4°C            | 0,97               | 5                              | +             | +          | 1        | c    |
| 2639         | Raw beef meat             | <i>E.coli</i> O157:H7 AV36  | Surface sample | 4°C            | 1,23               | 9,2                            | +             | +          | 1        | c    |
| 2641         | Seasoned beef meat        | <i>E.coli</i> O157:H7 AV36  | Surface sample | 4°C            | 1,23               | 9,2                            | +             | +          | 1        | c    |

| MP Broth 24 h |                           |                             |                             |                |                    |                               |               |            |          |      |
|---------------|---------------------------|-----------------------------|-----------------------------|----------------|--------------------|-------------------------------|---------------|------------|----------|------|
| Sample N°     | Product                   | Artificial contaminations   |                             |                |                    |                               | Global result |            | Category | Type |
|               |                           | Strain                      | Origin                      | Injury applied | Injury measurement | Inoculation rate (CFU/sample) | MP            | MP Express |          |      |
| 2568          | Raw beef meat             | <i>E.coli</i> O157:H7 Ad485 | Ground beef                 | -20°C          | 0,37               | 2,8                           | -             | -          | 1        | a    |
| 2569          | Raw beef meat             | <i>E.coli</i> O157:H7 Ad485 | Ground beef                 | -20°C          | 0,37               | 2,8                           | +             | +          | 1        | a    |
| 2570          | Raw beef meat             | <i>E.coli</i> O157:H7 R33-9 | Bovine environmental sample | -20°C          | >1,11              | <1                            | -             | -          | 1        | a    |
| 2572          | Raw ground beef           | <i>E.coli</i> O157:H7 R33-9 | Bovine environmental sample | -20°C          | >1,11              | <1                            | +             | -          | 1        | a    |
| 2575          | Raw ground beef           | <i>E.coli</i> O157:H7 R33-9 | Bovine environmental sample | -20°C          | >1,11              | <1                            | -             | -          | 1        | a    |
| 2579          | Raw beef meat             | <i>E.coli</i> O157:H7 B68   | Surface sample              | -20°C          | 0,6                | 2                             | -             | -          | 1        | a    |
| 2581          | Raw ground beef           | <i>E.coli</i> O157:H7 B68   | Surface sample              | -20°C          | 0,6                | 2                             | +             | +          | 1        | a    |
| 2582          | Raw ground beef           | <i>E.coli</i> O157:H7 Ad487 | Ground beef                 | -20°C          | 0,43               | 1,5                           | +             | +          | 1        | a    |
| 2584          | Raw ground beef           | <i>E.coli</i> O157:H7 Ad487 | Ground beef                 | -20°C          | 0,43               | 1,5                           | +             | +          | 1        | a    |
| 2585          | Raw ground beef           | <i>E.coli</i> O157:H7 Ad487 | Ground beef                 | -20°C          | 0,43               | 1,5                           | +             | +          | 1        | a    |
| 2586          | Raw ground beef           | <i>E.coli</i> O157:H7 Ad487 | Ground beef                 | -20°C          | 0,43               | 1,5                           | +             | +          | 1        | a    |
| 2587          | Raw ground beef           | <i>E.coli</i> O157:H7 Ad487 | Ground beef                 | -20°C          | 0,43               | 1,5                           | +             | +          | 1        | a    |
| 2620          | Raw beef meat             | <i>E.coli</i> O157:H7 B177  | Surface sample              | -20°C          | 0,89               | 3,8                           | -             | -          | 1        | a    |
| 2621          | Raw ground beef           | <i>E.coli</i> O157:H7 B177  | Surface sample              | -20°C          | 0,89               | 3,8                           | -             | -          | 1        | a    |
| 2623          | Raw ground beef           | <i>E.coli</i> O157:H7 AV36  | Surface sample              | -20°C          | 1,03               | 2,2                           | +             | -          | 1        | a    |
| 2626          | Raw beef meat             | <i>E.coli</i> O157:H7 AV36  | Surface sample              | -20°C          | 1,03               | 2,2                           | +             | -          | 1        | a    |
| 2628          | Raw ground beef           | <i>E.coli</i> O157:H7 A3612 | Ground beef                 | -20°C          | 1,22               | 1                             | -             | -          | 1        | a    |
| 2631          | Raw ground beef           | <i>E.coli</i> O157:H7 A3612 | Ground beef                 | -20°C          | 1,22               | 1                             | +             | +          | 1        | a    |
| 2634          | Raw beef meat             | <i>E.coli</i> O157:H7 B177  | Surface sample              | 4°C            | 0,97               | 5                             | +             | +          | 1        | a    |
| 2637          | Raw ground beef           | <i>E.coli</i> O157:H7 B177  | Surface sample              | 4°C            | 0,97               | 5                             | +             | +          | 1        | a    |
| 2640          | Raw ground beef           | <i>E.coli</i> O157:H7 AV36  | Surface sample              | 4°C            | 1,23               | 9,2                           | +             | +          | 1        | a    |
| 2578          | Seasoned ground beef meat | <i>E.coli</i> O157:H7 B68   | Surface sample              | -20°C          | 0,6                | 2                             | +             | +          | 1        | b    |
| 2632          | Seasoned ground beef meat | <i>E.coli</i> O157:H7 A3612 | Ground beef                 | -20°C          | 1,22               | 1                             | +             | +          | 1        | b    |

| MP Broth 24 h |                           |                               |                             |                |                    |                               |               |            |          |      |
|---------------|---------------------------|-------------------------------|-----------------------------|----------------|--------------------|-------------------------------|---------------|------------|----------|------|
| Sample N°     | Product                   | Artificial contaminations     |                             |                |                    |                               | Global result |            | Category | Type |
|               |                           | Strain                        | Origin                      | Injury applied | Injury measurement | Inoculation rate (CFU/sample) | MP            | MP Express |          |      |
| 2638          | Seasoned ground beef meat | <i>E.coli</i> O157:H7 AV36    | Surface sample              | 4°C            | 1,23               | 9,2                           | +             | +          | 1        | b    |
| 2723          | Frozen ground beef meat   | <i>E.coli</i> O157:H7 A19891D | Ground beef                 | -20°C          | 1,4                | 0-0-0-0-1 (0,8)               | +             | +          | 1        | b    |
| 2724          | Frozen ground beef meat   | <i>E.coli</i> O157:H7 A19891D | Ground beef                 | -20°C          | 1,4                | 0-0-0-0-1 (0,8)               | -             | -          | 1        | b    |
| 2725          | Frozen ground beef meat   | <i>E.coli</i> O157:H7 A19891D | Ground beef                 | -20°C          | 1,4                | 0-0-0-0-1 (0,8)               | -             | -          | 1        | b    |
| 2726          | Frozen ground beef meat   | <i>E.coli</i> O157:H7 AMTV6   | Clinic (feces)              | -20°C          | 1,45               | 19-22-22-19-18 (20,0)         | +             | +          | 1        | b    |
| 2727          | Frozen ground beef meat   | <i>E.coli</i> O157:H7 AMTV6   | Clinic (feces)              | -20°C          | 1,45               | 19-22-22-19-18 (20,0)         | +             | +          | 1        | b    |
| 2729          | Frozen ground beef meat   | <i>E.coli</i> O157:H7 AQ29-4  | Bovine feces                | -20°C          | 1,41               | 0-0-0-1-1 (0,4)               | -             | -          | 1        | b    |
| 2730          | Frozen ground beef meat   | <i>E.coli</i> O157:H7 AQ29-4  | Bovine feces                | -20°C          | 1,41               | 0-0-0-1-1 (0,4)               | -             | -          | 1        | b    |
| 2731          | Frozen beef meat          | <i>E.coli</i> O157:H7 AQ29-4  | Bovine feces                | -20°C          | 1,41               | 0-0-0-1-1 (0,4)               | +             | +          | 1        | b    |
| 2564          | Seasoned beef meat        | <i>E.coli</i> O157:H7 Ad485   | Ground beef                 | -20°C          | 0,37               | 2,8                           | +             | +          | 1        | c    |
| 2565          | Seasoned beef meat        | <i>E.coli</i> O157:H7 Ad485   | Ground beef                 | -20°C          | 0,37               | 2,8                           | +             | -          | 1        | c    |
| 2566          | Seasoned beef meat        | <i>E.coli</i> O157:H7 Ad485   | Ground beef                 | -20°C          | 0,37               | 2,8                           | +             | -          | 1        | c    |
| 2567          | Seasoned ground beef meat | <i>E.coli</i> O157:H7 Ad485   | Ground beef                 | -20°C          | 0,37               | 2,8                           | +             | -          | 1        | c    |
| 2571          | Seasoned beef meat        | <i>E.coli</i> O157:H7 R33-9   | Bovine environmental sample | -20°C          | >1,11              | <1                            | -             | -          | 1        | c    |
| 2573          | Seasoned beef meat        | <i>E.coli</i> O157:H7 R33-9   | Bovine environmental sample | -20°C          | >1,11              | <1                            | +             | +          | 1        | c    |
| 2574          | Seasoned beef meat        | <i>E.coli</i> O157:H7 R33-9   | Bovine environmental sample | -20°C          | >1,11              | <1                            | +             | +          | 1        | c    |
| 2576          | Seasoned ground beef meat | <i>E.coli</i> O157:H7 B68     | Surface sample              | -20°C          | 0,6                | 2                             | +             | +          | 1        | c    |
| 2577          | Seasoned ground beef meat | <i>E.coli</i> O157:H7 B68     | Surface sample              | -20°C          | 0,6                | 2                             | +             | +          | 1        | c    |
| 2580          | Seasoned ground beef meat | <i>E.coli</i> O157:H7 B68     | Surface sample              | -20°C          | 0,6                | 2                             | +             | +          | 1        | c    |
| 2583          | Seasoned ground beef meat | <i>E.coli</i> O157:H7 Ad487   | Ground beef                 | -20°C          | 0,43               | 1,5                           | +             | +          | 1        | c    |
| 2618          | Seasoned ground beef meat | <i>E.coli</i> O157:H7 B177    | Surface sample              | -20°C          | 0,89               | 3,8                           | +             | +          | 1        | c    |
| 2619          | Seasoned beef meat        | <i>E.coli</i> O157:H7 B177    | Surface sample              | -20°C          | 0,89               | 3,8                           | +             | +          | 1        | c    |
| 2622          | Seasoned beef meat        | <i>E.coli</i> O157:H7 B177    | Surface sample              | -20°C          | 0,89               | 3,8                           | +             | +          | 1        | c    |

| MP Broth 24 h |                           |                             |                |                |                    |                               |               |            |          |      |
|---------------|---------------------------|-----------------------------|----------------|----------------|--------------------|-------------------------------|---------------|------------|----------|------|
| Sample N°     | Product                   | Artificial contaminations   |                |                |                    |                               | Global result |            | Category | Type |
|               |                           | Strain                      | Origin         | Injury applied | Injury measurement | Inoculation rate (CFU/sample) | MP            | MP Express |          |      |
| 2625          | Raw beef meat             | <i>E.coli</i> O157:H7 AV36  | Surface sample | -20°C          | 1,03               | 2,2                           | +             | -          | 1        | c    |
| 2627          | Seasoned ground beef meat | <i>E.coli</i> O157:H7 AV36  | Surface sample | -20°C          | 1,03               | 2,2                           | -             | -          | 1        | c    |
| 2629          | Seasoned beef meat        | <i>E.coli</i> O157:H7 A3612 | Ground beef    | -20°C          | 1,22               | 1                             | +             | -          | 1        | c    |
| 2630          | Raw beef meat             | <i>E.coli</i> O157:H7 A3612 | Ground beef    | -20°C          | 1,22               | 1                             | +             | +          | 1        | c    |
| 2633          | Raw beef meat             | <i>E.coli</i> O157:H7 B177  | Surface sample | 4°C            | 0,97               | 5                             | +             | +          | 1        | c    |
| 2635          | Seasoned beef meat        | <i>E.coli</i> O157:H7 B177  | Surface sample | 4°C            | 0,97               | 5                             | +             | +          | 1        | c    |
| 2636          | Seasoned ground beef meat | <i>E.coli</i> O157:H7 B177  | Surface sample | 4°C            | 0,97               | 5                             | +             | +          | 1        | c    |
| 2639          | Raw beef meat             | <i>E.coli</i> O157:H7 AV36  | Surface sample | 4°C            | 1,23               | 9,2                           | +             | +          | 1        | c    |
| 2641          | Seasoned beef meat        | <i>E.coli</i> O157:H7 AV36  | Surface sample | 4°C            | 1,23               | 9,2                           | +             | +          | 1        | c    |

| mTSB protocol |          |                               |                             |                      |                    |                                |               |            |          |      |
|---------------|----------|-------------------------------|-----------------------------|----------------------|--------------------|--------------------------------|---------------|------------|----------|------|
| Sample N°     | Product  | Artificial contaminations     |                             |                      |                    |                                | Global result |            | Category | Type |
|               |          | Strain                        | Origin                      | Injury applied       | Injury measurement | Inoculation level (CFU/sample) | MP            | MP Express |          |      |
| 2653          | Raw milk | <i>E.coli</i> O157:H7 A206-RP | Feces                       | 13 days pH3-4°C      | 0,49               | 3,8                            | +             | +          | 2        | a    |
| 2663          | Raw milk | <i>E.coli</i> O157:H7 R33-9   | Bovine environmental sample | 28 days 4°C          | 0,47               | 3,4                            | +             | +          | 2        | a    |
| 2665          | Raw milk | <i>E.coli</i> O157:H7 A206RP  | Feces                       | 13 days 10% NaCl-4°C | 0,55               | 6,2                            | +             | +          | 2        | a    |
| 2670          | Raw milk | <i>E.coli</i> O157:H7 ENV177  | Water treatment plant       | 28 days 10% NaCl-4°C | 1,11               | 2,6                            | +             | +          | 2        | a    |
| 2748          | Raw milk | <i>E.coli</i> O157:H7 A206RP  | Clinic (feces)              | 40 days 4°C          | 1,64               | 2-4-0-0-2 (1,6)                | +             | +          | 2        | a    |
| 2749          | Raw milk | <i>E.coli</i> O157:H7 A206RP  | Clinic (feces)              | 40 days pH3- 4°C     | 0,73               | 2-2-5-3-4 (3,6)                | +             | +          | 2        | a    |
| 2900          | Raw milk | <i>E.coli</i> O157:H7 LS56    | Clinic                      | 72 days pH3- 4°C     | 1,00               | 5-1-5-3-2 (3,2)                | +             | +          | 2        | a    |
| 2901          | Raw milk | <i>E.coli</i> O157:H7 LS56    | Clinic                      | 72 days pH3- 4°C     | 1,00               | 5-1-5-3-2 (3,2)                | +             | +          | 2        | a    |
| 2902          | Raw milk | <i>E.coli</i> O157:H7 AMVT6   | Clinic                      | 56 days pH3- 4°C     | 0,5                | 11-6-7-7-5 (7,2)               | +             | +          | 2        | a    |
| 2903          | Raw milk | <i>E.coli</i> O157:H7 AMVT6   | Clinic                      | 56 days pH3- 4°C     | 0,5                | 11-6-7-7-5 (7,2)               | +             | +          | 2        | a    |
| 2904          | Raw milk | <i>E.coli</i> O157:H7 ET8     | Water treatment plant       | 56 days pH3- 4°C     | 1,38               | 2-4-8-3-2 (3,8)                | +             | +          | 2        | a    |
| 2905          | Raw milk | <i>E.coli</i> O157:H7 ET8     | Water treatment plant       | 56 days pH3- 4°C     | 1,38               | 2-4-8-3-2 (3,8)                | +             | +          | 2        | a    |
| 2945          | Raw milk | <i>E.coli</i> O157:H7 A206RP  | Clinic (feces)              | 62 days 4°C          | 0,98               | 0-0-0-1-1 (0,4)                | +             | +          | 2        | a    |
| 2946          | Raw milk | <i>E.coli</i> O157:H7 A206RP  | Clinic (feces)              | 62 days 4°C          | 0,98               | 0-0-0-1-1 (0,4)                | -             | -          | 2        | a    |
| 2947          | Raw milk | <i>E.coli</i> O157:H7 A206RP  | Clinic (feces)              | 62 days 4°C          | 0,98               | 0-0-0-1-1 (0,4)                | +             | +          | 2        | a    |
| 2948          | Raw milk | <i>E.coli</i> O157:H7 A206RP  | Clinic (feces)              | 62 days 4°C          | 0,98               | 0-0-0-1-1 (0,4)                | +             | +          | 2        | a    |
| 2949          | Raw milk | <i>E.coli</i> O157:H7 ET8     | Water treatment plant       | 62 days 4°C          | 0,79               | 7-9-10-5-8 (7,8)               | +             | +          | 2        | a    |
| 2950          | Raw milk | <i>E.coli</i> O157:H7 ET8     | Water treatment plant       | 62 days 4°C          | 0,79               | 7-9-10-5-8 (7,8)               | +             | +          | 2        | a    |
| 2951          | Raw milk | <i>E.coli</i> O157:H7 ET8     | Water treatment plant       | 62 days 4°C          | 0,79               | 7-9-10-5-8 (7,8)               | +             | +          | 2        | a    |
| 2952          | Raw milk | <i>E.coli</i> O157:H7 ET8     | Water treatment plant       | 62 days 4°C          | 0,79               | 7-9-10-5-8 (7,8)               | +             | +          | 2        | a    |
| 2992          | Raw milk | <i>E.coli</i> O157:H7 B177    | Surface sample              | 65 days -20°C        | 0,26               | 11-8-13-17-2 (10,2)            | +             | +          | 2        | a    |

| mTSB protocol |          |                               |                |                    |                    |                                |               |            |          |      |
|---------------|----------|-------------------------------|----------------|--------------------|--------------------|--------------------------------|---------------|------------|----------|------|
| Sample N°     | Product  | Artificial contaminations     |                |                    |                    |                                | Global result |            | Category | Type |
|               |          | Strain                        | Origin         | Injury applied     | Injury measurement | Inoculation level (CFU/sample) | MP            | MP Express |          |      |
| 2993          | Raw milk | <i>E.coli</i> O157:H7 B177    | Surface sample | 65 days -20°C      | 0,26               | 11-8-13-17-2 (10,2)            | +             | +          | 2        | a    |
| 8042          | Raw milk | <i>E. coli</i> O157:H7 Ad686  | Cow's udder    | Seeding 48 h 2-8°C | /                  | 1-3-2-3-2 (2,2)                | -             | -          | 2        | a    |
| 8043          | Raw milk | <i>E. coli</i> O157:H7 Ad688  | Cow's udder    | Seeding 48 h 2-8°C | /                  | 0-1-0-3-2 (1,2)                | +             | +          | 2        | a    |
| 8044          | Raw milk | <i>E. coli</i> O157:H7 Ad686  | Cow's udder    | Seeding 48 h 2-8°C | /                  | 1-3-2-3-2 (2,2)                | -             | -          | 2        | a    |
| 8045          | Raw milk | <i>E. coli</i> O157:H7 Ad688  | Cow's udder    | Seeding 48 h 2-8°C | /                  | 0-1-0-3-2 (1,2)                | -             | -          | 2        | a    |
| 8046          | Raw milk | <i>E. coli</i> O157:H7 Ad686  | Cow's udder    | Seeding 48 h 2-8°C | /                  | 1-3-2-3-2 (2,2)                | -             | -          | 2        | a    |
| 8047          | Raw milk | <i>E. coli</i> O157:H7 Ad688  | Cow's udder    | Seeding 48 h 2-8°C | /                  | 0-1-0-3-2 (1,2)                | -             | -          | 2        | a    |
| 8048          | Raw milk | <i>E. coli</i> O157:H7 Ad1745 | Dairy products | Seeding 48 h 2-8°C | /                  | 0-0-1-1-2 (0,8)                | +             | +          | 2        | a    |
| 8049          | Raw milk | <i>E. coli</i> O157:H7 L53    | Feces          | Seeding 48 h 2-8°C | /                  | 1-1-1-3-4 (2,0)                | -             | -          | 2        | a    |
| 8050          | Raw milk | <i>E. coli</i> O157:H7 Ad1745 | Dairy products | Seeding 48 h 2-8°C | /                  | 0-0-1-1-2 (0,8)                | +             | +          | 2        | a    |
| 8051          | Raw milk | <i>E. coli</i> O157:H7 L53    | Feces          | Seeding 48 h 2-8°C | /                  | 1-1-1-3-4 (2,0)                | +             | +          | 2        | a    |
| 8052          | Raw milk | <i>E. coli</i> O157:H7 Ad1745 | Dairy products | Seeding 48 h 2-8°C | /                  | 0-0-1-1-2 (0,8)                | -             | -          | 2        | a    |
| 8053          | Raw milk | <i>E. coli</i> O157:H7 L53    | Feces          | Seeding 48 h 2-8°C | /                  | 1-1-1-3-4 (2,0)                | -             | -          | 2        | a    |
| 8173          | Raw milk | <i>E. coli</i> O157:H7 Ad686  | Cow's udder    | Seeding 48 h 2-8°C | /                  | 1-3-3-2-4 (2,0)                | +             | +          | 2        | a    |
| 8174          | Raw milk | <i>E. coli</i> O157:H7 Ad2301 | Cow's udder    | Seeding 48 h 2-8°C | /                  | 3-3-2-3-3 (2,8)                | +             | +          | 2        | a    |
| 8175          | Raw milk | <i>E. coli</i> O157:H7 Ad686  | Cow's udder    | Seeding 48 h 2-8°C | /                  | 1-3-3-2-4 (2,0)                | +             | +          | 2        | a    |
| 8176          | Raw milk | <i>E. coli</i> O157:H7 Ad2301 | Cow's udder    | Seeding 48 h 2-8°C | /                  | 3-3-2-3-3 (2,8)                | +             | +          | 2        | a    |
| 8177          | Raw milk | <i>E. coli</i> O157:H7 Ad2301 | Cow's udder    | Seeding 48 h 2-8°C | /                  | 3-3-2-3-3 (2,8)                | +             | +          | 2        | a    |
| 8178          | Raw milk | <i>E. coli</i> O157:H7 EF190  | Clinic         | Seeding 48 h 2-8°C | /                  | 3-4-1-5-0 (2,6)                | +             | +          | 2        | a    |
| 8179          | Raw milk | <i>E. coli</i> O157:H7 Ad686  | Cow's udder    | Seeding 48 h 2-8°C | /                  | 1-3-3-2-4 (2,0)                | +             | +          | 2        | a    |
| 8180          | Raw milk | <i>E. coli</i> O157:H7 EF190  | Clinic         | Seeding 48 h 2-8°C | /                  | 3-4-1-5-0 (2,6)                | +             | +          | 2        | a    |
| 8181          | Raw milk | <i>E. coli</i> O157:H7 EF190  | Clinic         | Seeding 48 h 2-8°C | /                  | 3-4-1-5-0 (2,6)                | +             | +          | 2        | a    |

| mTSB protocol |                             |                                |                             |                    |                    |                                |               |            |          |      |
|---------------|-----------------------------|--------------------------------|-----------------------------|--------------------|--------------------|--------------------------------|---------------|------------|----------|------|
| Sample N°     | Product                     | Artificial contaminations      |                             |                    |                    |                                | Global result |            | Category | Type |
|               |                             | Strain                         | Origin                      | Injury applied     | Injury measurement | Inoculation level (CFU/sample) | MP            | MP Express |          |      |
| 8182          | Raw milk                    | <i>E. coli</i> O157:H7 EF190   | Clinic                      | Seeding 48 h 2-8°C | /                  | 3-4-1-5-0 (2,6)                | +             | +          | 2        | a    |
| 2467          | Red beetroot                | <i>E. coli</i> O157:H7 R33-9   | Bovine environmental sample | pH3-4°C            | 0,55               | 3,8                            | +             | +          | 3        | a    |
| 2762          | Frozen raw vegetables       | <i>E. coli</i> O157:H7 ENV177  | Water treatment plant       | 57 days -20°C      | >1,15              | 1-4-4-2-5 (3,2)                | +             | +          | 3        | a    |
| 2763          | Frozen broccoli             | <i>E. coli</i> O157:H7 ENV177  | Water treatment plant       | 57 days -20°C      | >1,15              | 1-4-4-2-5 (3,2)                | +             | +          | 3        | a    |
| 2764          | Frozen zucchini             | <i>E. coli</i> O157:H7 ENV177  | Water treatment plant       | 57 days -20°C      | >1,15              | 1-4-4-2-5 (3,2)                | +             | +          | 3        | a    |
| 2768          | Frozen pepper               | <i>E. coli</i> O157:H7 ENV177  | Water treatment plant       | 57 days -20°C pH10 | >1,27              | 4-2-1-0-1 (1,6)                | +             | +          | 3        | a    |
| 2769          | Frozen broccoli             | <i>E. coli</i> O157:H7 ENV177  | Water treatment plant       | 57 days -20°C pH10 | >1,27              | 4-2-1-0-1 (1,6)                | +             | +          | 3        | a    |
| 2770          | Frozen spinach              | <i>E. coli</i> O157:H7 ENV177  | Water treatment plant       | 57 days -20°C pH10 | >1,27              | 4-2-1-0-1 (1,6)                | +             | +          | 3        | a    |
| 2771          | Frozen spinach              | <i>E. coli</i> O157:H7 ENV177  | Water treatment plant       | 57 days -20°C pH10 | >1,27              | 4-2-1-0-1 (1,6)                | +             | +          | 3        | a    |
| 2772          | Frozen vegetables           | <i>E. coli</i> O157:H7 ENV177  | Water treatment plant       | 57 days -20°C      | >1,15              | 1-4-4-2-5 (3,2)                | +             | +          | 3        | a    |
| 2773          | Frozen vegetables           | <i>E. coli</i> O157:H7 ET8     | Water treatment plant       | 41 days -20°C      | 1,00               | 10-5-5-6-2 (5,6)               | +             | +          | 3        | a    |
| 2820          | Cauliflower                 | <i>E. coli</i> O157:H7 A19891D | Ground beef                 | 49 days 4°C        | 0,78               | 6-1-0-7-4 (3,6)                | +             | +          | 3        | a    |
| 2821          | Cauliflower                 | <i>E. coli</i> O157:H7 A19891D | Ground beef                 | 49 days 4°C        | 0,78               | 6-1-0-7-4 (3,6)                | +             | +          | 3        | a    |
| 2822          | White cabbage               | <i>E. coli</i> O157:H7 A19891D | Ground beef                 | 49 days 4°C        | 0,78               | 6-1-0-7-4 (3,6)                | +             | +          | 3        | a    |
| 2823          | White cabbage               | <i>E. coli</i> O157:H7 A206RP  | Clinic (feces)              | 49 days -20°C      | 1,96               | 2-5-3-6-5 (4,2)                | +             | +          | 3        | a    |
| 2824          | White cabbage carrot celery | <i>E. coli</i> O157:H7 A206RP  | Clinic (feces)              | 49 days -20°C      | 1,96               | 2-5-3-6-5 (4,2)                | +             | +          | 3        | a    |
| 2825          | Red cabbage                 | <i>E. coli</i> O157:H7 A206RP  | Clinic (feces)              | 49 days -20°C      | 1,96               | 2-5-3-6-5 (4,2)                | +             | +          | 3        | a    |
| 2473          | Apple juice                 | <i>E. coli</i> O157:H7 R33-9   | Bovine environmental sample | pH3-4°C            | 0,55               | 3,8                            | +             | +          | 3        | b    |
| 2475          | Orange juice                | <i>E. coli</i> O157:H7 ENV 177 | Water treatment plant       | pH3-4°C            | 0,61               | 2,4                            | +             | +          | 3        | b    |
| 2476          | Fruit juice                 | <i>E. coli</i> O157:H7 ENV 177 | Water treatment plant       | pH3-4°C            | 0,61               | 2,4                            | +             | +          | 3        | b    |
| 2478          | Vegetable soup              | <i>E. coli</i> O157:H7 R33-9   | Bovine environmental sample | pH3-4°C            | 0,55               | 3,8                            | +             | +          | 3        | b    |

| mTSB protocol |                |                               |                       |                           |                    |                                |               |            |          |      |
|---------------|----------------|-------------------------------|-----------------------|---------------------------|--------------------|--------------------------------|---------------|------------|----------|------|
| Sample N°     | Product        | Artificial contaminations     |                       |                           |                    |                                | Global result |            | Category | Type |
|               |                | Strain                        | Origin                | Injury applied            | Injury measurement | Inoculation level (CFU/sample) | MP            | MP Express |          |      |
| 2479          | Vegetable soup | <i>E.coli</i> O157:H7 ENV 177 | Water treatment plant | pH3-4°C                   | 0,61               | 2,4                            | +             | +          | 3        | b    |
| 2480          | Vegetable soup | <i>E.coli</i> O157:H7 ENV 177 | Water treatment plant | pH3-4°C                   | 0,61               | 2,4                            | +             | +          | 3        | b    |
| 2840          | Fruit juice    | <i>E.coli</i> O157:H7 LS56    | Clinic                | 64 days pH3 -20°C         | >2,58              | 0-3-0-1-2 (1,2)                | +             | +          | 3        | b    |
| 2814          | Cider          | <i>E.coli</i> O157:H7 B68     | Surface sample        | 63 days 4°C               | 0,59               | 2-4-6-7-8 (5,4)                | -             | -          | 3        | c    |
| 2815          | Cider          | <i>E.coli</i> O157:H7 LS56    | Clinic                | 63 days 4°C               | 1,23               | 0-2-2-3-2 (1,8)                | -             | -          | 3        | c    |
| 2817          | Cider          | <i>E.coli</i> O157:H7 AQ29-4  | Feces bovin           | 48 days -20°C/ 2 days 4°C | 0,52               | 7-11-8-4-9 (7,8)               | -             | -          | 3        | c    |
| 2826          | Sauerkraut     | <i>E.coli</i> O157:H7 ENV177  | Water treatment plant | 64 days pH3 -20°C         | >4,02              | 4-2-1-1-5 (2,6)                | -             | -          | 3        | c    |
| 2827          | Green olive    | <i>E.coli</i> O157:H7 ENV177  | Water treatment plant | 64 days pH3 -20°C         | >4,02              | 4-2-1-1-5 (2,6)                | -             | -          | 3        | c    |
| 2841          | Cider          | <i>E.coli</i> O157:H7 LS56    | Clinic                | 64 days pH3 -20°C         | >2,58              | 0-3-0-1-2 (1,2)                | -             | -          | 3        | c    |
| 2842          | Cider          | <i>E.coli</i> O157:H7 LS56    | Clinic                | 64 days pH3 -20°C         | >2,58              | 0-3-0-1-2 (1,2)                | -             | -          | 3        | c    |
| 2843          | Cider          | <i>E.coli</i> O157:H7 LS56    | Clinic                | 64 days pH3 -20°C         | >2,58              | 0-3-0-1-2 (1,2)                | -             | -          | 3        | c    |
| 2906          | Sauerkraut     | <i>E.coli</i> O157:H7 LS56    | Clinic                | 72 days pH3- 4°C          | 1,00               | 5-1-5-3-2 (3,2)                | -             | -          | 3        | c    |
| 2907          | Green olive    | <i>E.coli</i> O157:H7 LS56    | Clinic                | 72 days pH3- 4°C          | 1,00               | 5-1-5-3-2 (3,2)                | -             | -          | 3        | c    |
| 2908          | Cider          | <i>E.coli</i> O157:H7 ET8     | Water treatment plant | 56 days pH3- 4°C          | 1,38               | 2-4-8-3-2 (3,8)                | -             | -          | 3        | c    |
| 2998          | Sauerkraut     | <i>E.coli</i> O157:H7 A3612   | Ground beef           | 65 days 4°C               | 0,63               | 10-19-16-15-16 (15,2)          | +             | +          | 3        | c    |
| 8054          | Pickle         | <i>E. coli</i> O157:H7 Ad558  | Water treatment plant | Seeding 48 h 2-8°C        | /                  | 4-3-3-2-0 (2,4)                | -             | -          | 3        | c    |
| 8055          | Pickle         | <i>E. coli</i> O157:H7 Ad573  | Feces                 | Seeding 48 h 2-8°C        | /                  | 3-3-2-2-1 (2,2)                | -             | -          | 3        | c    |
| 8056          | Pickle         | <i>E. coli</i> O157:H7 Ad558  | Water treatment plant | Seeding 48 h 2-8°C        | /                  | 4-3-3-2-0 (2,4)                | +             | +          | 3        | c    |
| 8057          | Pickle         | <i>E. coli</i> O157:H7 Ad573  | Feces                 | Seeding 48 h 2-8°C        | /                  | 3-3-2-2-1 (2,2)                | +             | +          | 3        | c    |
| 8058          | Sauerkraut     | <i>E. coli</i> O157:H7 Ad573  | Feces                 | Seeding 48 h 2-8°C        | /                  | 3-3-2-2-1 (2,2)                | -             | -          | 3        | c    |
| 8059          | Sauerkraut     | <i>E. coli</i> O157:H7 Ad574  | Feces                 | Seeding 48 h 2-8°C        | /                  | 0-5-0-6-3 (2,8)                | -             | -          | 3        | c    |
| 8060          | Cider          | <i>E. coli</i> O157:H7 Ad558  | Water treatment plant | Seeding 48 h 2-8°C        | /                  | 4-3-3-2-0 (2,4)                | +             | +          | 3        | c    |

| mTSB protocol |                         |                                |                             |                    |                    |                                |               |            |          |      |
|---------------|-------------------------|--------------------------------|-----------------------------|--------------------|--------------------|--------------------------------|---------------|------------|----------|------|
| Sample N°     | Product                 | Artificial contaminations      |                             |                    |                    |                                | Global result |            | Category | Type |
|               |                         | Strain                         | Origin                      | Injury applied     | Injury measurement | Inoculation level (CFU/sample) | MP            | MP Express |          |      |
| 8061          | Cider                   | <i>E. coli</i> O157:H7 Ad574   | Feces                       | Seeding 48 h 2-8°C | /                  | 0-5-0-6-3 (2,8)                | -             | -          | 3        | c    |
| 8062          | Cider                   | <i>E. coli</i> O157:H7 Ad574   | Feces                       | Seeding 48 h 2-8°C | /                  | 0-5-0-6-3 (2,8)                | -             | -          | 3        | c    |
| 8183          | Fermented carott        | <i>E. coli</i> O157:H7 Ad573   | Feces                       | Seeding 48 h 2-8°C | /                  | 5-4-1-1-3 (2,8)                | -             | -          | 3        | c    |
| 8184          | Fermented carott        | <i>E. coli</i> O157:H7 Ad575   | Feces                       | Seeding 48 h 2-8°C | /                  | 3-3-3-2-2 (2,6)                | -             | -          | 3        | c    |
| 8185          | Fermented white cabbage | <i>E. coli</i> O157:H7 Ad573   | Feces                       | Seeding 48 h 2-8°C | /                  | 5-4-1-1-3 (2,8)                | +             | +          | 3        | c    |
| 8186          | Fermented white cabbage | <i>E. coli</i> O157:H7 Ad575   | Feces                       | Seeding 48 h 2-8°C | /                  | 3-3-3-2-2 (2,6)                | +             | +          | 3        | c    |
| 8187          | Fermented vegetables    | <i>E. coli</i> O157:H7 Ad575   | Feces                       | Seeding 48 h 2-8°C | /                  | 3-3-3-2-2 (2,6)                | -             | -          | 3        | c    |
| 8188          | Fermented vegetables    | <i>E. coli</i> O157:H7 Ad576   | Feces                       | Seeding 48 h 2-8°C | /                  | 2-1-3-3-3 (2,4)                | -             | -          | 3        | c    |
| 8189          | Fermented black radish  | <i>E. coli</i> O157:H7 Ad573   | Feces                       | Seeding 48 h 2-8°C | /                  | 5-4-1-1-3 (2,8)                | +             | +          | 3        | c    |
| 8190          | Fermented black radish  | <i>E. coli</i> O157:H7 Ad576   | Feces                       | Seeding 48 h 2-8°C | /                  | 2-1-3-3-3 (2,4)                | +             | +          | 3        | c    |
| 8191          | Fermented red cabbage   | <i>E. coli</i> O157:H7 Ad576   | Feces                       | Seeding 48 h 2-8°C | /                  | 2-1-3-3-3 (2,4)                | +             | +          | 3        | c    |
| 8192          | Olives                  | <i>E. coli</i> O157:H7 Ad576   | Feces                       | Seeding 48 h 2-8°C | /                  | 2-1-3-3-3 (2,4)                | -             | -          | 3        | c    |
| 2465          | RTE food                | <i>E. coli</i> O157:H7 R33-9   | Bovine environmental sample | pH3-4°C            | 0,55               | 3,8                            | +             | +          | 4        | a    |
| 2468          | RTE Salad               | <i>E. coli</i> O157:H7 R33-9   | Bovine environmental sample | pH3-4°C            | 0,55               | 3,8                            | +             | +          | 4        | a    |
| 2471          | Red cabbage salad       | <i>E. coli</i> O157:H7 ENV 177 | Water treatment plant       | pH3-4°C            | 0,61               | 2,4                            | +             | +          | 4        | a    |
| 2750          | RTE food                | <i>E. coli</i> O157:H7 Ad485   | Ground beef                 | 57 days pH3-4°C    | 0,86               | 4-8-4-2-2 (4,0)                | -             | -          | 4        | a    |
| 2751          | RTE food                | <i>E. coli</i> O157:H7 Ad485   | Ground beef                 | 57 days pH3-4°C    | 0,86               | 4-8-4-2-2 (4,0)                | -             | -          | 4        | a    |
| 2752          | RTE Salad               | <i>E. coli</i> O157:H7 Ad485   | Ground beef                 | 57 days pH3-4°C    | 0,86               | 4-8-4-2-2 (4,0)                | +             | +          | 4        | a    |
| 2753          | RTE Salad               | <i>E. coli</i> O157:H7 Ad487   | Ground beef                 | 42 days pH3- 4°C   | 1,11               | 9-3-7-6-5 (6,0)                | +             | +          | 4        | a    |
| 2754          | RTE Salad               | <i>E. coli</i> O157:H7 Ad487   | Ground beef                 | 42 days pH3- 4°C   | 1,11               | 9-3-7-6-5 (6,0)                | +             | +          | 4        | a    |
| 2755          | RTE Salad               | <i>E. coli</i> O157:H7 Ad487   | Ground beef                 | 42 days pH3- 4°C   | 1,11               | 9-3-7-6-5 (6,0)                | +             | +          | 4        | a    |
| 2756          | RTE Salad               | <i>E. coli</i> O157:H7 ET8     | Water treatment plant       | 42 days pH3- 4°C   | 1,25               | 3-10-4-7-3 (5,4)               | +             | +          | 4        | a    |

| mTSB protocol |                   |                              |                       |                           |                    |                                |               |            |          |      |
|---------------|-------------------|------------------------------|-----------------------|---------------------------|--------------------|--------------------------------|---------------|------------|----------|------|
| Sample N°     | Product           | Artificial contaminations    |                       |                           |                    |                                | Global result |            | Category | Type |
|               |                   | Strain                       | Origin                | Injury applied            | Injury measurement | Inoculation level (CFU/sample) | MP            | MP Express |          |      |
| 2757          | Red beetroot      | <i>E.coli</i> O157:H7 ET8    | Water treatment plant | 42 days pH3- 4°C          | 1,25               | 3-10-4-7-3 (5,4)               | +             | +          | 4        | a    |
| 2758          | RTE Salad         | <i>E.coli</i> O157:H7 ET8    | Water treatment plant | 42 days pH3- 4°C          | 1,25               | 3-10-4-7-3 (5,4)               | +             | +          | 4        | a    |
| 2759          | RTE food          | <i>E.coli</i> O157:H7 LS56   | Clinic                | 57 days pH3-4°C           | 1,42               | 0-0-4-3-1 (1,6)                | -             | -          | 4        | a    |
| 2760          | RTE Salad         | <i>E.coli</i> O157:H7 LS56   | Clinic                | 57 days pH3-4°C           | 1,42               | 0-0-4-3-1 (1,6)                | +             | +          | 4        | a    |
| 2761          | RTE Salad         | <i>E.coli</i> O157:H7 LS56   | Clinic                | 57 days pH3-4°C           | 1,42               | 0-0-4-3-1 (1,6)                | -             | -          | 4        | a    |
| 2859          | RTE Food          | <i>E.coli</i> O157:H7 Ad487  | Ground beef           | 54 days 4°C               | 0,58               | 6-4-7-5-3 (5,0)                | -             | -          | 4        | a    |
| 2804          | RTRH chicken meat | <i>E.coli</i> O157:H7 Ad485  | Ground beef           | 63 days -20°C             | 1,15               | 6-9-5-5-8 (6,6)                | +             | +          | 4        | b    |
| 2805          | RTRH chicken meat | <i>E.coli</i> O157:H7 LS56   | Clinic                | 63 days 4°C               | 1,23               | 0-2-2-3-2 (1,8)                | +             | +          | 4        | b    |
| 2807          | RTRH pork meat    | <i>E.coli</i> O157:H7 B68    | Surface sample        | 63 days 4°C               | 0,59               | 2-4-6-7-8 (5,4)                | +             | +          | 4        | b    |
| 2808          | RTRH tomatoes     | <i>E.coli</i> O157:H7 AV36   | Surface sample        | 48 days -20°C/ 2 days 4°C | 0,8                | 9-8-1-3-5 (5,2)                | +             | +          | 4        | b    |
| 2809          | RTRH tomatoes     | <i>E.coli</i> O157:H7 Ad485  | Ground beef           | 63 days -20°C             | 1,15               | 6-9-5-5-8 (6,6)                | +             | +          | 4        | b    |
| 2810          | RTRH food         | <i>E.coli</i> O157:H7 Ad485  | Ground beef           | 63 days -20°C             | 1,15               | 6-9-5-5-8 (6,6)                | +             | +          | 4        | b    |
| 2813          | RTRH eggplant     | <i>E.coli</i> O157:H7 B68    | Surface sample        | 63 days 4°C               | 0,59               | 2-4-6-7-8 (5,4)                | -             | -          | 4        | b    |
| 2857          | RTRH pork meat    | <i>E.coli</i> O157:H7 Ad487  | Ground beef           | 54 days 4°C               | 0,58               | 6-4-7-5-3 (5,0)                | -             | -          | 4        | b    |
| 2858          | RTRH pork meat    | <i>E.coli</i> O157:H7 Ad487  | Ground beef           | 54 days 4°C               | 0,58               | 6-4-7-5-3 (5,0)                | +             | +          | 4        | b    |
| 2860          | RTRH food         | <i>E.coli</i> O157:H7 Ad487  | Ground beef           | 54 days 4°C               | 0,58               | 6-4-7-5-3 (5,0)                | +             | +          | 4        | b    |
| 8063          | RTRH chicken meat | <i>E. coli</i> O157:H7 Ad585 | Meat products         | Seeding 48 h 2-8°C        | /                  | 1-3-5-5-0 (2,8)                | +             | +          | 4        | b    |
| 8064          | RTRH pork meat    | <i>E. coli</i> O157:H7 Ad585 | Meat products         | Seeding 48 h 2-8°C        | /                  | 1-3-5-5-0 (2,8)                | -             | -          | 4        | b    |
| 2794          | Pork meat         | <i>E.coli</i> O157:H7 AV36   | Surface sample        | 48 days -20°C/ 2 days 4°C | 0,8                | 9-8-1-3-5 (5,2)                | +             | +          | 4        | c    |
| 2797          | Chicken meat      | <i>E.coli</i> O157:H7 LS56   | Clinic                | 63 days 4°C               | 1,23               | 0-2-2-3-2 (1,8)                | -             | -          | 4        | c    |
| 2802          | Chicken meat      | <i>E.coli</i> O157:H7 AV36   | Surface sample        | 48 days -20°C/ 2 days 4°C | 0,8                | 9-8-1-3-5 (5,2)                | +             | +          | 4        | c    |
| 2855          | Pork meat         | <i>E.coli</i> O157:H7 Ad487  | Ground beef           | 54 days 4°C               | 0,58               | 6-4-7-5-3 (5,0)                | +             | +          | 4        | c    |

| mTSB protocol |                  |                               |               |                                |                    |                                |               |            |          |      |
|---------------|------------------|-------------------------------|---------------|--------------------------------|--------------------|--------------------------------|---------------|------------|----------|------|
| Sample N°     | Product          | Artificial contaminations     |               |                                |                    |                                | Global result |            | Category | Type |
|               |                  | Strain                        | Origin        | Injury applied                 | Injury measurement | Inoculation level (CFU/sample) | MP            | MP Express |          |      |
| 2856          | Sheep meat       | <i>E.coli</i> O157:H7 Ad487   | Ground beef   | 54 days 4°C                    | 0,58               | 6-4-7-5-3 (5,0)                | +             | +          | 4        | c    |
| 102           | Lamb meat        | <i>E.coli</i> O157:H7 A1518ID | Ground beef   | 48 h 4°C-33days -18°C-48 h 4°C | >0,90              | 10-9-14-9-10 (10,4)            | +             | +          | 4        | c    |
| 103           | Sheep meat       | <i>E.coli</i> O157:H7 A1518ID | Ground beef   | 48 h 4°C-33days -18°C-48 h 4°C | >0,90              | 10-9-14-9-10 (10,4)            | +             | +          | 4        | c    |
| 8065          | Raw chicken meat | <i>E. coli</i> O157:H7 Ad586  | Meat products | Seeding 48 h 2-8°C             | /                  | 0-1-1-3-4 (1,8)                | +             | +          | 4        | c    |
| 8066          | Raw chicken meat | <i>E. coli</i> O157:H7 Ad586  | Meat products | Seeding 48 h 2-8°C             | /                  | 0-1-1-3-4 (1,8)                | +             | +          | 4        | c    |
| 8067          | Raw chicken meat | <i>E. coli</i> O157:H7 Ad586  | Meat products | Seeding 48 h 2-8°C             | /                  | 0-1-1-3-4 (1,8)                | -             | -          | 4        | c    |
| 8068          | Raw chicken meat | <i>E. coli</i> O157:H7 Ad586  | Meat products | Seeding 48 h 2-8°C             | /                  | 0-1-1-3-4 (1,8)                | +             | +          | 4        | c    |
| 8069          | Raw pork meat    | <i>E. coli</i> O157:H7 Ad587  | Meat products | Seeding 48 h 2-8°C             | /                  | 1-5-3-5-0 (2,8)                | +             | +          | 4        | c    |
| 8070          | Raw pork meat    | <i>E. coli</i> O157:H7 Ad587  | Meat products | Seeding 48 h 2-8°C             | /                  | 1-5-3-5-0 (2,8)                | +             | +          | 4        | c    |
| 8071          | Raw pork meat    | <i>E. coli</i> O157:H7 Ad587  | Meat products | Seeding 48 h 2-8°C             | /                  | 1-5-3-5-0 (2,8)                | +             | +          | 4        | c    |

## Appendix 5 – Sensitivity study: raw data

### **E. coli O157: H7 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                               |
| -:     | no typical colonies but presence of background microflora |
| st:    | plate without any colony                                  |
| i:     | PCR inhibition  |
| PA:    | positive agreement  |
| NA:    | negative agreement  |
| ND:    | negative deviation  |
| PD:    | positive deviation  |
| PPNA:  | positive presumptive negative agreement                   |
| PPND : | positive presumptive negative deviation                   |
| NC:    | non-characteristic colony on nutrient agar                |
| d:     | doubtful colony   |
| ni:    | non-isolated colony                                       |
| col :  | colony  |
| ims :  | immuno separation (QUALICON's confirmation protocol)      |

2017

| RAW BEEF MEAT (BAX® for 8 h) |                                  |                  |                             |                |         |                |              |   |                                |            |          |              |              |            |   |                  |            |          |              |              |          |      |           |
|------------------------------|----------------------------------|------------------|-----------------------------|----------------|---------|----------------|--------------|---|--------------------------------|------------|----------|--------------|--------------|------------|---|------------------|------------|----------|--------------|--------------|----------|------|-----------|
| Sample N°                    | Product (French name)            | Product          | Reference method ISO 16654* |                |         |                |              | Alternative method: BAX® E.coli O157:H7 MP MP Broth 8 h at 42°C |                                |            |          |              |              |            | Alternative method: BAX® E.coli O157:H7 MP Express MP Broth 8 h at 42°C |                  |            |          |              |              | Category | Type |           |
|                              |                                  |                  | IMS 6H                      |                | IMS 24H |                | Final result | PCR result  | Direct streaking onto CT- SMAC |            |          |              |              | PCR result | Direct streaking onto CT- SMAC  |                  |            |          |              |              |          |      |           |
|                              |                                  |                  | CT-SMAC                     | CHROMagar O157 | CT-SMAC | CHROMagar O157 |              |   | Typical colonies               | Latex O157 | Latex H7 | Confirmation | Final result |            | Agreement   | Typical colonies | Latex O157 | Latex H7 | Confirmation | Final result |          |      | Agreement |
| 2568                         | Brochettes abats de bœuf         | Raw beef meat    | +/-                         | -              | -       | -              | -            | -   | /                              | /          | /        | /            | -            | NA         | -   | /                | /          | /        | /            | -            | NA       | 1    | a         |
| 2569                         | Bavette                          | Raw beef meat    | +                           | +              | /       | /              | +            | +   | +                              | -          | /        | +(ims1)      | +            | PA         | -   | +                | -          | /        | +(ims1)      | -            | ND       | 1    | a         |
| 2570                         | Aiguillette de bœuf              | Raw beef meat    | +/-                         | +              | -       | +/-            | -            | -   | /                              | /          | /        | /            | -            | NA         | -   | /                | /          | /        | /            | -            | NA       | 1    | a         |
| 2572                         | Haché                            | Raw ground beef  | -                           | -              | +/-     | -              | -            | -   | /                              | /          | /        | /            | -            | NA         | -   | /                | /          | /        | /            | -            | NA       | 1    | a         |
| 2575                         | Steak haché                      | Raw ground beef  | -                           | -              | -       | -              | -            | -   | /                              | /          | /        | /            | -            | NA         | -   | /                | /          | /        | /            | -            | NA       | 1    | a         |
| 2579                         | Brochettes de bœuf               | Raw beef meat    | -                           | +/-            | -       | +/-            | -            | +   | -                              | /          | /        | +(ims2)      | +            | PD         | -   | -                | /          | /        | /            | -            | NA       | 1    | a         |
| 2581                         | Steak haché frais pur bœuf       | Raw ground beef  | +                           | +              | +/-     | +/-            | -            | +   | +                              | +          | +        | +            | +            | PD         | -   | +                | +          | +        | +            | -            | NA       | 1    | a         |
| 2582                         | Steak haché façon boucherie      | Raw ground beef  | +                           | -              | +/-     | -              | +            | +   | +                              | A+         | /        | -            | -            | PPND       | -   | +                | A+         | /        | -            | -            | ND       | 1    | a         |
| 2584                         | Steak haché frais pur bœuf       | Raw ground beef  | +                           | +              | /       | /              | +            | +   | +                              | +          | +        | +            | +            | PA         | -   | +                | +          | +        | +            | -            | ND       | 1    | a         |
| 2585                         | Brochettes abats de bœuf         | Raw ground beef  | +                           | +              | /       | /              | +            | -   | /                              | /          | /        | /            | -            | ND         | -   | /                | /          | /        | /            | -            | ND       | 1    | a         |
| 2586                         | Steak haché frais pur bœuf       | Raw ground beef  | +                           | +              | /       | /              | +            | +   | +                              | +          | +        | +            | +            | PA         | -   | +                | +          | +        | +            | -            | ND       | 1    | a         |
| 2587                         | Steak haché frais pur bœuf       | Raw ground beef  | +                           | +              | /       | /              | +            | +   | d                              | +          | +        | +            | +            | PA         | -   | d                | +          | +        | +            | -            | ND       | 1    | a         |
| 2620                         | Brochettes d'abats de bœuf       | Raw beef meat    | -                           | -              | -       | -              | -            | -   | d                              | -          | /        | -            | -            | NA         | -   | d                | -          | /        | -            | -            | NA       | 1    | a         |
| 2621                         | Steak haché                      | Raw ground beef  | -                           | +              | -       | +/-            | -            | -   | -                              | /          | /        | -            | -            | NA         | -   | -                | /          | /        | -            | -            | NA       | 1    | a         |
| 2623                         | Steak haché                      | Raw ground beef  | -                           | -              | -       | -              | -            | -   | +                              | +          | +        | +            | -            | NA         | -   | +                | +          | +        | +            | -            | NA       | 1    | a         |
| 2626                         | Bavette                          | Raw beef meat    | +                           | -              | -       | +              | -            | +   | +                              | +          | +        | +            | +            | PD         | -   | +                | +          | +        | +            | -            | NA       | 1    | a         |
| 2628                         | Steak haché 15%MG                | Raw ground beef  | +                           | +              | +/-     | +              | -            | -   | -                              | /          | /        | -            | -            | NA         | -   | -                | /          | /        | -            | -            | NA       | 1    | a         |
| 2631                         | Steak haché frais                | Raw ground beef  | -                           | -              | -       | -              | -            | +   | d                              | +          | +        | +            | +            | PD         | -   | d                | +          | +        | +            | -            | NA       | 1    | a         |
| 2634                         | Baronne                          | Raw beef meat    | +                           | -              | +       | -              | -            | +   | +                              | +          | +        | +            | +            | PD         | +   | +                | +          | +        | +            | +            | PD       | 1    | a         |
| 2637                         | Steak haché frais pur bœuf       | Raw ground beef  | +                           | +              | /       | /              | +            | +   | -                              | /          | /        | +(ims1)      | +            | PA         | +   | -                | /          | /        | +(ims1)      | +            | PA       | 1    | a         |
| 2640                         | Steak haché frais pur bœuf 20%MG | Raw ground beef  | +                           | +              | /       | /              | +            | +   | +                              | +          | +        | +            | +            | PA         | +   | +                | +          | +        | +            | +            | PA       | 1    | a         |
| 2890                         | Viande hachée de bœuf 20% MG     | Ground beef meat | -                           | -              | -       | -              | -            | -   | /                              | /          | /        | /            | -            | NA         | -   | /                | /          | /        | /            | -            | NA       | 1    | a         |
| 2891                         | Viande hachée de bœuf 5% MG      | Ground beef meat | -                           | -              | -       | -              | -            | -   | /                              | /          | /        | /            | -            | NA         | -   | /                | /          | /        | /            | -            | NA       | 1    | a         |
| 2898                         | Viande hachée de bœuf 5% MG      | Ground beef meat | -                           | -              | -       | -              | -            | +/+   | d(1col)                        | -          | /        | -            | -            | PPNA       | -/+   | d(1col)          | -          | /        | -            | -            | NA       | 1    | a         |

\* Analyses performed according to the COFRAC accreditation

| RAW BEEF MEAT (BAX® for 8 h) |                                  |                           |                             |                |         |                |   |            |                                |            |          |              |              |   |                                |                  |            |          |              |          |      |              |           |   |
|------------------------------|----------------------------------|---------------------------|-----------------------------|----------------|---------|----------------|---|------------|--------------------------------|------------|----------|--------------|--------------|---|--------------------------------|------------------|------------|----------|--------------|----------|------|--------------|-----------|---|
| Sample N°                    | Product (French name)            | Product                   | Reference method ISO 16654* |                |         |                | Alternative method: BAX® E.coli O157:H7 MP MP Broth 8 h at 42°C |            |                                |            |          |              |              | Alternative method: BAX® E.coli O157:H7 MP Express MP Broth 8 h at 42°C |                                |                  |            |          |              | Category | Type |              |           |   |
|                              |                                  |                           | IMS 6H                      |                | IMS 24H |                | Final result  | PCR result | Direct streaking onto CT- SMAC |            |          |              |              | PCR result  | Direct streaking onto CT- SMAC |                  |            |          |              |          |      |              |           |   |
|                              |                                  |                           | CT-SMAC                     | CHROMagar O157 | CT-SMAC | CHROMagar O157 |   |            | Typical colonies               | Latex O157 | Latex H7 | Confirmation | Final result |   | Agreement                      | Typical colonies | Latex O157 | Latex H7 | Confirmation |          |      | Final result | Agreement |   |
| 3057                         | Steak haché                      | Ground beef meat          | -                           | -              | -       | -              | -   | -          | /                              | /          | /        | /            | -            | NA  | -                              | /                | /          | /        | /            | -        | NA   | 1            | a         |   |
| 3061                         | Steak haché pur bœuf             | Ground beef meat          | -                           | -              | -       | -              | -   | -          | /                              | /          | /        | /            | -            | NA  | -                              | /                | /          | /        | /            | -        | NA   | 1            | a         |   |
| 2578                         | Steak haché oignon surgelé       | Seasoned ground beef meat | -                           | -              | -       | -              | -   | -          | /                              | /          | /        | /            | -            | NA  | -                              | /                | /          | /        | /            | -        | NA   | 1            | b         |   |
| 2632                         | Steak haché à l'oignon surgelé   | Seasoned ground beef meat | -                           | -              | +       | -              | -   | +          | +                              | +          | +        | +            | +            | PD  | +                              | +                | +          | +        | +            | +        | +    | PD           | 1         | b |
| 2638                         | Steak haché à l'oignon surgelé   | Seasoned ground beef meat | +                           | +              | /       | /              | +   | +          | +                              | +          | +        | +            | +            | PA  | +                              | +                | +          | +        | +            | +        | +    | PA           | 1         | b |
| 2723                         | Viande hachée surgelée           | Frozen ground beef meat   | -                           | -              | -       | -              | -   | +          | +                              | +          | +        | +            | +            | PD  | +                              | +                | +          | +        | +            | +        | +    | PD           | 1         | b |
| 2724                         | Viande hachée surgelée           | Frozen ground beef meat   | -                           | -              | -       | -              | -   | -          | /                              | /          | -        | -            | -            | NA  | -                              | -                | /          | /        | -            | -        | -    | NA           | 1         | b |
| 2725                         | Steak haché de bœuf surgelé      | Frozen ground beef meat   | -                           | +/-            | -       | -              | -   | -          | /                              | /          | /        | /            | -            | NA  | -                              | /                | /          | /        | /            | -        | -    | NA           | 1         | b |
| 2726                         | Steak haché de bœuf surgelé      | Frozen ground beef meat   | +                           | +              | +       | +              | +   | +          | +                              | +          | +        | +            | +            | PA  | +                              | +                | +          | +        | +            | +        | +    | PA           | 1         | b |
| 2727                         | Steak haché de bœuf surgelé      | Frozen ground beef meat   | +                           | +              | +       | -              | +   | +          | +                              | +          | +        | +            | +            | PA  | +                              | +                | +          | +        | +            | +        | +    | PA           | 1         | b |
| 2729                         | Steak haché de bœuf surgelé      | Frozen ground beef meat   | -                           | +/-            | -       | -              | -   | +          | -                              | /          | /        | +(ims1)      | +            | PD  | +                              | -                | /          | /        | +(ims1)      | +        | +    | PD           | 1         | b |
| 2730                         | Steak haché de bœuf surgelé      | Frozen ground beef meat   | -                           | +              | -       | +/-            | -   | -          | -                              | /          | /        | -            | -            | NA  | -                              | -                | /          | /        | -            | -        | -    | NA           | 1         | b |
| 2731                         | Le petit tendre kids surgelé     | Frozen beef meat          | -                           | -              | -       | -              | -   | +          | +                              | +          | +        | +            | +            | PD  | +                              | +                | +          | +        | +            | +        | +    | PD           | 1         | b |
| 2888                         | Mini boulettes de bœuf surgelées | Frozen beef meat          | -                           | -              | -       | -              | -   | -          | /                              | /          | /        | /            | -            | NA  | -                              | /                | /          | /        | /            | -        | -    | NA           | 1         | b |
| 2889                         | Boulettes de bœuf surgelées      | Frozen beef meat          | -                           | -              | -       | -              | -   | -          | /                              | /          | /        | /            | -            | NA  | -                              | /                | /          | /        | /            | -        | -    | NA           | 1         | b |
| 2892                         | Boulettes de bœuf surgelées      | Frozen beef meat          | -                           | -              | +       | -              | -   | +          | +                              | +          | +        | +            | +            | PD  | -/+                            | +                | +          | +        | +            | -        | -    | NA           | 1         | b |
| 2893                         | Boulettes de bœuf surgelées      | Frozen beef meat          | -                           | -              | -       | -              | -   | -/+        | +(1col)                        | +          | +        | +            | -            | NA  | +                              | +(1col)          | +          | +        | +            | +        | +    | PD           | 1         | b |
| 2894                         | L e petit tendre (surgelé)       | Frozen beef meat          | -                           | -              | -       | -              | -   | -          | /                              | /          | /        | /            | -            | NA  | -                              | /                | /          | /        | /            | -        | -    | NA           | 1         | b |
| 2895                         | L e petit tendre (surgelé)       | Frozen beef meat          | -                           | -              | -       | -              | -   | -          | /                              | /          | /        | /            | -            | NA  | -                              | /                | /          | /        | /            | -        | -    | NA           | 1         | b |
| 2896                         | L e petit tendre (surgelé)       | Frozen beef meat          | -                           | -              | -       | -              | -   | -          | /                              | /          | /        | /            | -            | NA  | -                              | /                | /          | /        | /            | -        | -    | NA           | 1         | b |
| 2897                         | L e petit tendre (surgelé)       | Frozen beef meat          | -                           | -              | -       | -              | -   | -          | /                              | /          | /        | /            | -            | NA  | -                              | /                | /          | /        | /            | -        | -    | NA           | 1         | b |
| 2899                         | Mini boulettes de bœuf surgelées | Ground beef meat          | -                           | -              | -       | -              | -   | -          | /                              | /          | /        | /            | -            | NA  | -                              | /                | /          | /        | /            | -        | -    | NA           | 1         | b |

| RAW BEEF MEAT (BAX® for 8 h) |                              |                           |                             |                |         |                |              |  |                                |            |          |              |              |            |  |                  |            |          |              |              |          |      |           |
|------------------------------|------------------------------|---------------------------|-----------------------------|----------------|---------|----------------|--------------|--|--------------------------------|------------|----------|--------------|--------------|------------|--|------------------|------------|----------|--------------|--------------|----------|------|-----------|
| Sample N°                    | Product (French name)        | Product                   | Reference method ISO 16654* |                |         |                |              | Alternative method: BAX® <i>E.coli</i> O157:H7 MP MP Broth 8 h at 42°C |                                |            |          |              |              |            | Alternative method: BAX® <i>E.coli</i> O157:H7 MP Express MP Broth 8 h at 42°C |                  |            |          |              |              | Category | Type |           |
|                              |                              |                           | IMS 6H                      |                | IMS 24H |                | Final result | PCR result   | Direct streaking onto CT- SMAC |            |          |              |              | PCR result | Direct streaking onto CT- SMAC   |                  |            |          |              |              |          |      |           |
|                              |                              |                           | CT-SMAC                     | CHROMagar O157 | CT-SMAC | CHROMagar O157 |              |  | Typical colonies               | Latex O157 | Latex H7 | Confirmation | Final result |            | Agreement  | Typical colonies | Latex O157 | Latex H7 | Confirmation | Final result |          |      | Agreement |
| 2564                         | Boulettes de bœuf provençale | Seasoned beef meat        | +                           | -              | +/-     | +/-            | -            | +  | +                              | A+         | /        | +(ims1)      | +            | PD         | -  | +                | A+         | /        | -            | -            | NA       | 1    | c         |
| 2565                         | Boulettes au bœuf            | Seasoned beef meat        | +                           | +              | +/-     | +/-            | -            | +  | +                              | +          | +        | +            | +            | PD         | -  | +                | +          | +        | +            | -            | NA       | 1    | c         |
| 2566                         | Boulettes de bœuf provençale | Seasoned beef meat        | +                           | +              | +/-     | +              | -            | -  | /                              | /          | /        | /            | -            | NA         | -  | /                | /          | /        | /            | -            | NA       | 1    | c         |
| 2567                         | Haché bolognaise             | Seasoned ground beef meat | -                           | -              | -       | -              | -            | +  | +                              | +          | +        | +            | +            | PD         | -  | +                | +          | +        | +            | -            | NA       | 1    | c         |
| 2571                         | Boulettes au bœuf            | Seasoned beef meat        | +                           | -              | +/-     | -              | -            | +  | +                              | A+         | /        | -            | -            | NA         | -  | +                | A+         | /        | -            | -            | NA       | 1    | c         |
| 2573                         | Carpaccio de bœuf au basilic | Seasoned beef meat        | -                           | -              | +       | +              | +            | -  | /                              | /          | /        | /            | -            | ND         | -  | /                | /          | /        | /            | -            | ND       | 1    | c         |
| 2574                         | Carpaccio de bœuf au olives  | Seasoned beef meat        | -                           | -              | -       | -              | -            | -  | /                              | /          | /        | /            | -            | NA         | -  | /                | /          | /        | /            | -            | NA       | 1    | c         |
| 2576                         | Steak haché tomate           | Seasoned ground beef meat | -                           | -              | +       | +              | +            | -  | /                              | /          | /        | /            | -            | ND         | -  | /                | /          | /        | /            | -            | ND       | 1    | c         |
| 2577                         | Haché bolognaise             | Seasoned ground beef meat | +                           | +              | /       | /              | +            | -  | /                              | /          | /        | /            | -            | ND         | -  | /                | /          | /        | /            | -            | ND       | 1    | c         |
| 2580                         | Steak haché tomate           | Seasoned ground beef meat | -                           | -              | -       | -              | -            | -  | /                              | /          | /        | /            | -            | NA         | -  | /                | /          | /        | /            | -            | NA       | 1    | c         |
| 2583                         | Steak haché oignon           | Seasoned ground beef meat | -                           | -              | -       | -              | -            | +  | +                              | +          | +        | +            | +            | PD         | -  | +                | +          | +        | +            | -            | NA       | 1    | c         |
| 2618                         | Haché bolognaise             | Seasoned ground beef meat | -                           | -              | +       | +/-            | +            | +  | +                              | +          | +        | +            | +            | PA         | +  | +                | +          | +        | +            | +            | PA       | 1    | c         |
| 2619                         | Boulettes de bœuf provençale | Seasoned beef meat        | +                           | +              | +/-     | +/-            | -            | +  | +                              | +          | +        | +            | +            | PD         | +  | +                | +          | +        | +            | +            | PD       | 1    | c         |
| 2622                         | Carpaccio aux olives         | Seasoned beef meat        | -                           | -              | -       | -              | -            | +  | +                              | +          | +        | +            | +            | PD         | +  | +                | +          | +        | +            | +            | PD       | 1    | c         |
| 2625                         | Boulettes de bœuf            | Raw beef meat             | +                           | +/-            | +       | -              | -            | +  | +                              | A+         | /        | +(ims2)      | +            | PD         | +  | +                | A+         | /        | +(ims2)      | +            | PD       | 1    | c         |
| 2627                         | Haché bolognaise             | Seasoned ground beef meat | -                           | -              | -       | +              | -            | -  | -                              | /          | /        | -            | -            | NA         | -  | -                | /          | /        | -            | -            | NA       | 1    | c         |
| 2629                         | Boulettes de bœuf provençale | Seasoned beef meat        | +                           | +              | +       | +              | -            | +  | +                              | A+         | /        | +(ims1)      | +            | PD         | -  | +                | A+         | /        | -            | -            | NA       | 1    | c         |
| 2630                         | Brochettes de bœuf           | Raw beef meat             | -                           | +/-            | +/-     | +/-            | +            | +  | d                              | NC         | /        | +(ims1)      | +            | PA         | +  | d                | NC         | /        | +(ims1)      | +            | PA       | 1    | c         |
| 2633                         | Boulettes au bœuf            | Raw beef meat             | +                           | +              | +/-     | -              | -            | +  | +                              | A+         | A+       | +(ims1)      | +            | PD         | +  | +                | A+         | A+       | +(ims1)      | +            | PD       | 1    | c         |
| 2635                         | Carpaccio au basilic         | Seasoned beef meat        | -                           | -              | -       | -              | -            | +  | +                              | +          | +        | +            | +            | PD         | +  | +                | +          | +        | +            | +            | PD       | 1    | c         |
| 2636                         | Steak haché à la tomate      | Seasoned ground beef meat | +                           | +              | /       | /              | +            | +  | +                              | +          | +        | +            | +            | PA         | +  | +                | +          | +        | +            | +            | PA       | 1    | c         |
| 2639                         | Boulettes au bœuf            | Raw beef meat             | +                           | +              | /       | /              | +            | +  | +                              | +          | +        | +            | +            | PA         | +  | +                | +          | +        | +            | +            | PA       | 1    | c         |

| RAW BEEF MEAT (BAX® for 8 h) |                          |                           |                             |                |         |                |              |  |                                |            |          |              |              |            |  |                  |            |          |              |              |          |      |           |   |   |
|------------------------------|--------------------------|---------------------------|-----------------------------|----------------|---------|----------------|--------------|--|--------------------------------|------------|----------|--------------|--------------|------------|--|------------------|------------|----------|--------------|--------------|----------|------|-----------|---|---|
| Sample N°                    | Product (French name)    | Product                   | Reference method ISO 16654* |                |         |                |              | Alternative method: BAX® <i>E.coli</i> O157:H7 MP MP Broth 8 h at 42°C |                                |            |          |              |              |            | Alternative method: BAX® <i>E.coli</i> O157:H7 MP Express MP Broth 8 h at 42°C |                  |            |          |              |              | Category | Type |           |   |   |
|                              |                          |                           | IMS 6H                      |                | IMS 24H |                | Final result | PCR result   | Direct streaking onto CT- SMAC |            |          |              |              | PCR result | Direct streaking onto CT- SMAC   |                  |            |          |              |              |          |      |           |   |   |
|                              |                          |                           | CT-SMAC                     | CHROMagar O157 | CT-SMAC | CHROMagar O157 |              |  | Typical colonies               | Latex O157 | Latex H7 | Confirmation | Final result |            | Agreement  | Typical colonies | Latex O157 | Latex H7 | Confirmation | Final result |          |      | Agreement |   |   |
| 2641                         | Carpaccio aux olives2642 | Seasoned beef meat        | -                           | -              | -       | -              | -            | +  | +                              | +          | +        | +            | +            | +          | PD   | +                | +          | +        | +            | +            | +        | +    | PD        | 1 | c |
| 2996                         | Haché bolognaise         | Seasoned ground beef meat | -                           | -              | -       | -              | -            | -  | /                              | /          | /        | /            | /            | -          | NA   | -                | /          | /        | /            | /            | /        | -    | NA        | 1 | c |
| 2997                         | Carpaccio de bœuf        | Seasoned beef meat        | -                           | -              | +/-     | +              | +            | -  | /                              | /          | /        | /            | /            | -          | ND   | -                | /          | /        | /            | /            | /        | -    | ND        | 1 | c |
| 3058                         | Boulettes au bœuf        | Ground beef meat          | -                           | -              | -       | -              | -            | -  | /                              | /          | /        | /            | /            | -          | NA   | -                | /          | /        | /            | /            | /        | -    | NA        | 1 | c |
| 3059                         | Steak haché à la tomate  | Seasoned ground beef meat | -                           | -              | -       | -              | -            | -  | /                              | /          | /        | /            | /            | -          | NA   | -                | /          | /        | /            | /            | /        | -    | NA        | 1 | c |
| 3060                         | Haché bolognaise         | Seasoned ground beef meat | -                           | -              | -       | -              | -            | -  | /                              | /          | /        | /            | /            | -          | NA   | -                | /          | /        | /            | /            | /        | -    | NA        | 1 | c |
| 3062                         | Brochettes de bœuf       | Raw beef meat             | -                           | -              | -       | -              | -            | -  | /                              | /          | /        | /            | /            | -          | NA   | -                | /          | /        | /            | /            | /        | -    | NA        | 1 | c |

RAW MEAT (BAX® for 24 h)

| Sample N° | Product (French name)            | Product                   | Reference method ISO 16654* |                |          |                |              | Alternative method: BAX® <i>E.coli</i> O157:H7 MP MP Broth 24 h at 42°C |                                |            |          |              |              |           |            | Alternative method: BAX® <i>E.coli</i> O157:H7 MP Express MP Broth 24 h at 42°C |            |          |              |              |           | Category | Type |
|-----------|----------------------------------|---------------------------|-----------------------------|----------------|----------|----------------|--------------|---|--------------------------------|------------|----------|--------------|--------------|-----------|------------|---|------------|----------|--------------|--------------|-----------|----------|------|
|           |                                  |                           | IMS 6H                      |                | IMS 24H  |                | Final result | PCR result  | Direct streaking onto CT- SMAC |            |          |              |              |           | PCR result | Direct streaking onto CT- SMAC  |            |          |              |              |           |          |      |
|           |                                  |                           | CT- SMAC                    | CHROMagar O157 | CT- SMAC | CHROMagar O157 |              |   | Typical colonies               | Latex O157 | Latex H7 | Confirmation | Final result | Agreement |            | Typical colonies  | Latex O157 | Latex H7 | Confirmation | Final result | Agreement |          |      |
| 2568      | Brochettes abats de bœuf         | Raw beef meat             | +/-                         | -              | -        | -              | -            | -   | /                              | /          | /        | /            | -            | NA        | -          | /   | /          | /        | /            | -            | NA        | 1        | a    |
| 2569      | Bavette                          | Raw beef meat             | +                           | +              | /        | /              | +            | +   | +                              | -          | /        | +(ims2)      | +            | PA        | +          | +   | -          | /        | -            | +            | PA        | 1        | a    |
| 2570      | Aiguillette de bœuf              | Raw beef meat             | +/-                         | +              | -        | +/-            | -            | -   | /                              | /          | /        | /            | -            | NA        | -          | /   | /          | /        | /            | -            | NA        | 1        | a    |
| 2572      | Haché                            | Raw ground beef           | -                           | -              | +/-      | -              | -            | +   | d                              | +          | +        | +            | +            | PD        | -          | d   | +          | +        | +            | -            | NA        | 1        | a    |
| 2575      | Steak haché                      | Raw ground beef           | -                           | -              | -        | -              | -            | -   | /                              | /          | /        | /            | -            | NA        | -          | /   | /          | /        | /            | -            | NA        | 1        | a    |
| 2579      | Brochettes de bœuf               | Raw beef meat             | -                           | +/-            | -        | +/-            | -            | -   | d                              | NC         | -        | -            | -            | NA        | +          | d   | NC         | -        | -            | -            | NA        | 1        | a    |
| 2581      | Steak haché frais pur bœuf       | Raw ground beef           | +                           | +              | +/-      | +/-            | -            | +   | +                              | A+         | /        | +(ims1)      | +            | PD        | +          | +   | A+         | /        | +(ims1)      | +            | PD        | 1        | a    |
| 2582      | Steak haché façon boucherie      | Raw ground beef           | +                           | -              | +/-      | -              | +            | +   | +                              | +          | +        | +            | +            | PA        | +          | +   | +          | +        | +            | +            | PA        | 1        | a    |
| 2584      | Steak haché frais pur bœuf       | Raw ground beef           | +                           | +              | /        | /              | +            | +   | +                              | +          | +        | +            | +            | PA        | +          | +   | +          | +        | +            | +            | PA        | 1        | a    |
| 2585      | Brochettes abats de bœuf         | Raw ground beef           | +                           | +              | /        | /              | +            | +   | -                              | /          | /        | +(ims1)      | +            | PA        | -          | -   | /          | /        | -            | -            | ND        | 1        | a    |
| 2586      | Steak haché frais pur bœuf       | Raw ground beef           | +                           | +              | /        | /              | +            | +   | +                              | A+         | /        | +(ims1)      | +            | PA        | +          | +   | A+         | /        | +(ims1)      | +            | PA        | 1        | a    |
| 2587      | Steak haché frais pur bœuf       | Raw ground beef           | +                           | +              | /        | /              | +            | +   | +                              | +          | +        | +            | +            | PA        | +          | +   | +          | +        | +            | +            | PA        | 1        | a    |
| 2620      | Brochettes d'abats de bœuf       | Raw beef meat             | -                           | -              | -        | -              | -            | -   | +                              | -          | /        | -            | -            | NA        | -          | +   | -          | /        | -            | -            | NA        | 1        | a    |
| 2621      | Steak hache                      | Raw ground beef           | -                           | +              | -        | +/-            | -            | -   | -                              | /          | /        | -            | -            | NA        | -          | -   | /          | /        | -            | -            | NA        | 1        | a    |
| 2623      | Steak haché                      | Raw ground beef           | -                           | -              | -        | -              | -            | +   | +                              | +          | +        | +            | +            | PD        | -          | +   | +          | +        | +            | -            | NA        | 1        | a    |
| 2626      | Bavette                          | Raw beef meat             | +                           | -              | -        | +              | -            | +   | +                              | +          | +        | +            | +            | PD        | -          | +   | +          | +        | +            | -            | NA        | 1        | a    |
| 2628      | Steak haché 15%MG                | Raw ground beef           | +                           | +              | +/-      | +              | -            | -   | d                              | NC         | /        | -            | -            | NA        | -          | d   | NC         | /        | -            | -            | NA        | 1        | a    |
| 2631      | Steak haché frais                | Raw ground beef           | -                           | -              | -        | -              | -            | +   | +                              | +          | +        | +            | +            | PD        | +          | +   | +          | +        | +            | +            | PD        | 1        | a    |
| 2634      | Baronne                          | Raw beef meat             | +                           | -              | +        | -              | -            | +   | +                              | +          | +        | +            | +            | PD        | +          | +   | +          | +        | +            | +            | PD        | 1        | a    |
| 2637      | Steak haché frais pur bœuf       | Raw ground beef           | +                           | +              | /        | /              | +            | +   | +                              | A+         | A+       | +(ims1)      | +            | PA        | +          | +   | A+         | A+       | +(ims1)      | +            | PA        | 1        | a    |
| 2640      | Steak haché frais pur bœuf 20%MG | Raw ground beef           | +                           | +              | /        | /              | +            | +   | +                              | +          | +        | +            | +            | PA        | +          | +   | +          | +        | +            | +            | PA        | 1        | a    |
| 2890      | Viande hachée de bœuf 20% MG     | Ground beef meat          | -                           | -              | -        | -              | -            | -   | /                              | /          | /        | /            | -            | NA        | -          | /   | /          | /        | /            | -            | NA        | 1        | a    |
| 2891      | Viande hachée de bœuf 5% MG      | Ground beef meat          | -                           | -              | -        | -              | -            | -   | /                              | /          | /        | /            | -            | NA        | -          | /   | /          | /        | /            | -            | NA        | 1        | a    |
| 2898      | Viande hachée de bœuf 5% MG      | Ground beef meat          | -                           | -              | -        | -              | -            | -   | /                              | /          | /        | /            | -            | NA        | -          | /   | /          | /        | /            | -            | NA        | 1        | a    |
| 3057      | Steak haché                      | Ground beef meat          | -                           | -              | -        | -              | -            | -   | /                              | /          | /        | /            | -            | NA        | -          | /   | /          | /        | /            | -            | NA        | 1        | a    |
| 3061      | Steak haché pur bœuf             | Ground beef meat          | -                           | -              | -        | -              | -            | -   | /                              | /          | /        | /            | -            | NA        | -          | /   | /          | /        | /            | -            | NA        | 1        | a    |
| 2578      | Steak haché à l'oignon surgelé   | Seasoned ground beef meat | -                           | -              | -        | -              | -            | +   | +                              | +          | +        | +            | +            | PD        | +          | +   | +          | +        | +            | +            | PD        | 1        | b    |
| 2632      | Steak haché à l'oignon surgelé   | Seasoned ground beef meat | -                           | -              | +        | -              | -            | +   | +                              | +          | +        | +            | +            | PD        | +          | +   | +          | +        | +            | +            | PD        | 1        | b    |
| 2638      | Steak haché à l'oignon surgelé   | Seasoned ground beef meat | +                           | +              | /        | /              | +            | +   | +                              | +          | +        | +            | +            | PA        | +          | +   | +          | +        | +            | +            | PA        | 1        | b    |
| 2723      | Viande hachée surgelée           | Frozen ground beef meat   | -                           | -              | -        | -              | -            | +   | +                              | +          | +        | +            | +            | PD        | +          | +   | +          | +        | +            | +            | PD        | 1        | b    |
| 2724      | Viande hachée surgelée           | Frozen ground beef meat   | -                           | -              | -        | -              | -            | -   | /                              | /          | /        | /            | -            | NA        | -          | /   | /          | /        | /            | -            | NA        | 1        | b    |
| 2725      | Steak haché de bœuf surgelé      | Frozen ground beef meat   | -                           | +/-            | -        | -              | -            | -   | /                              | /          | /        | /            | -            | NA        | -          | /   | /          | /        | /            | -            | NA        | 1        | b    |
| 2726      | Steak haché de bœuf surgelé      | Frozen ground beef meat   | +                           | +              | +        | +              | +            | +   | +                              | +          | +        | +            | +            | PA        | +          | +   | +          | +        | +            | +            | PA        | 1        | b    |
| 2727      | Steak haché de bœuf surgelé      | Frozen ground beef meat   | +                           | +              | +        | -              | +            | +   | +                              | +          | +        | +            | +            | PA        | +          | +   | +          | +        | +            | +            | PA        | 1        | b    |
| 2729      | Steak haché de bœuf surgelé      | Frozen ground beef meat   | -                           | +/-            | -        | -              | -            | -/-   | /                              | /          | /        | /            | -            | NA        | -          | /   | /          | /        | /            | -            | NA        | 1        | b    |
| 2730      | Steak haché de bœuf surgelé      | Frozen ground beef meat   | -                           | +              | -        | +/-            | -            | -   | /                              | /          | /        | /            | -            | NA        | -          | /   | /          | /        | /            | -            | NA        | 1        | b    |
| 2731      | Le petit tendre kids surgelé     | Frozen beef meat          | -                           | -              | -        | -              | -            | +   | +                              | +          | +        | +            | +            | PD        | +          | +   | +          | +        | +            | +            | PD        | 1        | b    |

\* Analyses performed according to the COFRAC accreditation

RAW MEAT (BAX® for 24 h)

| Sample N° | Product (French name)            | Product                   | Reference method ISO 16654* |                |         |                | Alternative method: BAX® <i>E.coli</i> O157:H7 MP MP Broth 24 h at 42°C |            |                                |            |          |              |              | Alternative method: BAX® <i>E.coli</i> O157:H7 MP Express MP Broth 24 h at 42°C |                                |                  |            |          |              | Category | Type   |              |           |   |   |
|-----------|----------------------------------|---------------------------|-----------------------------|----------------|---------|----------------|---|------------|--------------------------------|------------|----------|--------------|--------------|---|--------------------------------|------------------|------------|----------|--------------|----------|--------|--------------|-----------|---|---|
|           |                                  |                           | IMS 6H                      |                | IMS 24H |                | Final result  | PCR result | Direct streaking onto CT- SMAC |            |          |              |              | PCR result  | Direct streaking onto CT- SMAC |                  |            |          |              |          |        |              |           |   |   |
|           |                                  |                           | CT-SMAC                     | CHROMagar O157 | CT-SMAC | CHROMagar O157 |   |            | Typical colonies               | Latex O157 | Latex H7 | Confirmation | Final result |   | Agreement                      | Typical colonies | Latex O157 | Latex H7 | Confirmation |          |        | Final result | Agreement |   |   |
| 2888      | Mini boulettes de bœuf surgelées | Frozen beef meat          | -                           | -              | -       | -              | -   | -          | /                              | /          | /        | /            | -            | NA  | -                              | /                | /          | /        | /            | -        | NA     | 1            | b         |   |   |
| 2889      | Boulettes de bœuf surgelées      | Frozen beef meat          | -                           | -              | -       | -              | -   | -          | /                              | /          | /        | /            | -            | NA  | -                              | /                | /          | /        | /            | -        | NA     | 1            | b         |   |   |
| 2892      | Boulettes de bœuf surgelées      | Frozen beef meat          | -                           | -              | +       | -              | -   | +          | +                              | (2col)     | -        | /            | +            | (ims2)  | +                              | +                | (2col)     | -        | /            | +        | (ims2) | +            | PD        | 1 | b |
| 2893      | Boulettes de bœuf surgelées      | Frozen beef meat          | -                           | -              | -       | -              | -   | +          | -                              | /          | /        | +            | (ims2)       | +   | +                              | -                | /          | /        | +            | (ims2)   | +      | +            | PD        | 1 | b |
| 2894      | Le petit tendre (surgelé)        | Frozen beef meat          | -                           | -              | -       | -              | -   | -          | /                              | /          | /        | /            | -            | NA  | -                              | /                | /          | /        | /            | -        | NA     | 1            | b         |   |   |
| 2895      | Le petit tendre (surgelé)        | Frozen beef meat          | -                           | -              | -       | -              | -   | -          | /                              | /          | /        | /            | -            | NA  | -                              | /                | /          | /        | /            | -        | NA     | 1            | b         |   |   |
| 2896      | Le petit tendre (surgelé)        | Frozen beef meat          | -                           | -              | -       | -              | -   | -          | /                              | /          | /        | /            | -            | NA  | -                              | /                | /          | /        | /            | -        | NA     | 1            | b         |   |   |
| 2897      | Le petit tendre (surgelé)        | Frozen beef meat          | -                           | -              | -       | -              | -   | -          | /                              | /          | /        | /            | -            | NA  | -                              | /                | /          | /        | /            | -        | NA     | 1            | b         |   |   |
| 2899      | Mini boulettes de bœuf surgelées | Ground beef meat          | -                           | -              | -       | -              | -   | -          | /                              | /          | /        | /            | -            | NA  | -                              | /                | /          | /        | /            | -        | NA     | 1            | b         |   |   |
| 2564      | Boulettes de bœuf provençale     | Seasoned beef meat        | +                           | -              | +/-     | +/-            | -   | +          | d                              | A+         | /        | +            | (ims2)       | +   | +                              | d                | A+         | /        | +            | +        | +      | +            | PD        | 1 | c |
| 2565      | Boulettes au bœuf                | Seasoned beef meat        | +                           | +              | +/-     | +/-            | -   | +          | d                              | A+         | /        | +            | (ims2)       | +   | +                              | d                | A+         | /        | -            | -        | -      | -            | NA        | 1 | c |
| 2566      | Boulettes de bœuf provençale     | Seasoned beef meat        | +                           | +              | +/-     | +              | -   | +          | +                              | +          | +        | +            | +            | +   | +                              | +                | +          | +        | +            | +        | +      | -            | NA        | 1 | c |
| 2567      | Haché bolognaise                 | Seasoned ground beef meat | -                           | -              | -       | -              | -   | +          | +                              | +          | +        | +            | +            | +   | +                              | +                | +          | +        | +            | +        | -      | -            | NA        | 1 | c |
| 2571      | Boulettes au bœuf                | Seasoned beef meat        | +                           | -              | +/-     | -              | -   | -          | +                              | A+         | /        | -            | -            | NA  | -                              | +                | A+         | /        | -            | -        | -      | -            | NA        | 1 | c |
| 2573      | Carpaccio de bœuf au basilic     | Seasoned beef meat        | -                           | -              | +       | +              | +   | +          | +                              | +          | +        | +            | +            | +   | +                              | +                | +          | +        | +            | +        | +      | +            | PA        | 1 | c |
| 2574      | Carpaccio de bœuf au olives      | Seasoned beef meat        | -                           | -              | -       | -              | -   | +          | +                              | +          | +        | +            | +            | +   | +                              | +                | +          | +        | +            | +        | +      | +            | PD        | 1 | c |
| 2576      | Steak haché tomate               | Seasoned ground beef meat | -                           | -              | +       | +              | +   | -          | /                              | /          | /        | /            | -            | ND  | -                              | /                | /          | /        | /            | -        | -      | -            | ND        | 1 | c |
| 2577      | Haché bolognaise                 | Seasoned ground beef meat | +                           | +              | /       | /              | +   | +          | +                              | A+         | /        | +            | (ims2)       | +   | +                              | +                | A+         | /        | +            | (ims2)   | +      | +            | PA        | 1 | c |
| 2580      | Steak haché tomate               | Seasoned ground beef meat | -                           | -              | -       | -              | -   | +          | +                              | +          | +        | +            | +            | +   | +                              | +                | +          | +        | +            | +        | +      | +            | PD        | 1 | c |
| 2583      | Steak haché oignon surgelé       | Seasoned ground beef meat | -                           | -              | -       | -              | -   | +          | +                              | +          | +        | +            | +            | +   | +                              | +                | +          | +        | +            | +        | +      | +            | PD        | 1 | c |
| 2618      | Haché bolognaise                 | Seasoned ground beef meat | -                           | -              | +       | +/-            | +   | +          | +                              | +          | +        | +            | +            | +   | +                              | +                | +          | +        | +            | +        | +      | +            | PA        | 1 | c |
| 2619      | Boulettes de bœuf provençale     | Seasoned beef meat        | +                           | +              | +/-     | +/-            | -   | +          | +                              | A+         | /        | +            | (ims1)       | +   | +                              | +                | A+         | /        | +            | (ims1)   | +      | +            | PD        | 1 | c |
| 2622      | Carpaccio aux olives             | Seasoned beef meat        | -                           | -              | -       | -              | -   | +          | +                              | +          | +        | +            | +            | +   | +                              | +                | +          | +        | +            | +        | +      | +            | PD        | 1 | c |
| 2625      | Boulettes de bœuf                | Raw beef meat             | +                           | +/-            | +       | -              | -   | +          | +                              | A+         | /        | +            | (ims2)       | +   | +                              | +                | A+         | /        | -            | -        | -      | -            | NA        | 1 | c |
| 2627      | Haché bolognaise                 | Seasoned ground beef meat | -                           | -              | -       | +              | -   | -          | -                              | /          | /        | -            | -            | NA  | -                              | -                | /          | /        | -            | -        | -      | -            | NA        | 1 | c |
| 2629      | Boulettes de bœuf provençale     | Seasoned beef meat        | +                           | +              | +       | +              | -   | +          | +                              | A+         | /        | +            | (ims2)       | +   | +                              | +                | A+         | /        | -            | -        | -      | -            | NA        | 1 | c |
| 2630      | Brochettes de bœuf               | Raw beef meat             | -                           | +/-            | +/-     | +/-            | +   | +          | d                              | -          | /        | +            | (ims2)       | +   | +                              | d                | -          | /        | +            | (ims2)   | +      | +            | PA        | 1 | c |
| 2633      | Boulettes au bœuf                | Raw beef meat             | +                           | +              | +/-     | -              | -   | +          | +                              | A+         | /        | +            | (ims2)       | +   | +                              | +                | A+         | /        | +            | (ims2)   | +      | +            | PD        | 1 | c |
| 2635      | Carpaccio au basilic             | Seasoned beef meat        | -                           | -              | -       | -              | -   | +          | +                              | +          | +        | +            | +            | +   | +                              | +                | +          | +        | +            | +        | +      | +            | PD        | 1 | c |
| 2636      | Steak haché à la tomate          | Seasoned ground beef meat | +                           | +              | /       | /              | +   | +          | +                              | +          | +        | +            | +            | +   | +                              | +                | +          | +        | +            | +        | +      | +            | PA        | 1 | c |
| 2639      | Boulettes au bœuf                | Raw beef meat             | +                           | +              | /       | /              | +   | +          | +                              | A+         | /        | +            | (ims1)       | +   | +                              | +                | A+         | /        | +            | (ims1)   | +      | +            | PA        | 1 | c |
| 2641      | Carpaccio aux olives2642         | Seasoned beef meat        | -                           | -              | -       | -              | -   | +          | +                              | +          | +        | +            | +            | +   | +                              | +                | +          | +        | +            | +        | +      | +            | PD        | 1 | c |
| 2996      | Haché bolognaise                 | Seasoned ground beef meat | -                           | -              | -       | -              | -   | -          | /                              | /          | /        | /            | -            | NA  | -                              | /                | /          | /        | /            | -        | -      | -            | NA        | 1 | c |
| 2997      | Carpaccio de bœuf                | Seasoned beef meat        | -                           | -              | +/-     | +              | +   | -          | /                              | /          | /        | /            | -            | ND  | -                              | /                | /          | /        | /            | -        | -      | -            | ND        | 1 | c |
| 3058      | Boulettes au bœuf                | Ground beef meat          | -                           | -              | -       | -              | -   | -          | /                              | /          | /        | /            | -            | NA  | -                              | /                | /          | /        | /            | -        | -      | -            | NA        | 1 | c |
| 3059      | Steak haché à la tomate          | Seasoned ground beef meat | -                           | -              | -       | -              | -   | -          | /                              | /          | /        | /            | -            | NA  | -                              | /                | /          | /        | /            | -        | -      | -            | NA        | 1 | c |
| 3060      | Haché bolognaise                 | Seasoned ground beef meat | -                           | -              | -       | -              | -   | -          | /                              | /          | /        | /            | -            | NA  | -                              | /                | /          | /        | /            | -        | -      | -            | NA        | 1 | c |
| 3062      | Brochettes de bœuf               | Raw beef meat             | -                           | -              | -       | -              | -   | -          | /                              | /          | /        | /            | -            | NA  | -                              | /                | /          | /        | /            | -        | -      | -            | NA        | 1 | c |

RAW MILK (mTSB protocol)

| Sample N° | Product (French name) | Product (English name) | Reference method ISO 16654* |                |          |                | Alternative method: BAX® <i>E.coli</i> O157:H7 MP mTSB + novobiocin 18 h at 41.5°C |           |                                |            |           |                | Alternative method: BAX® <i>E.coli</i> O157:H7 MP Express mTSB + novobiocin 18 h at 41.5°C |                                |             |                  |            |          | Category | Type |                |              |             |   |   |
|-----------|-----------------------|------------------------|-----------------------------|----------------|----------|----------------|--|-----------|--------------------------------|------------|-----------|----------------|--|--------------------------------|-------------|------------------|------------|----------|----------|------|----------------|--------------|-------------|---|---|
|           |                       |                        | IMS 6H                      |                | IMS 24H  |                | Final result   | PCR Reult | Direct streaking onto CT- SMAC |            |           |                | PCR Reult  | Direct streaking onto CT- SMAC |             |                  |            |          |          |      |                |              |             |   |   |
|           |                       |                        | CT- SMAC                    | CHROMagar O157 | CT- SMAC | CHROMagar O157 |  |           | Typical colonies               | Latex O157 | Late x H7 | Confir- mation |  | Final result                   | Agree- ment | Typical colonies | Latex O157 | Latex H7 |          |      | Confir- mation | Final result | Agree- ment |   |   |
| 2653      | Lait cru              | Raw milk               | +                           | +/-            | +        | +              | +  | +         | +                              | +          | +         | +              | +  | PA                             | +           | +                | +          | +        | +        | +    | +              | PA           | 2           | a |   |
| 2663      | Lait cru              | Raw milk               | +                           | +/-            | +        | +              | +  | +         | +                              | +          | +         | +              | +  | PA                             | +           | +                | +          | +        | +        | +    | +              | +            | PA          | 2 | a |
| 2665      | Lait cru              | Raw milk               | +                           | +/-            | +        | +              | +  | +         | +                              | +          | +         | +              | +  | PA                             | +           | +                | +          | +        | +        | +    | +              | +            | PA          | 2 | a |
| 2670      | Lait cru              | Raw milk               | +                           | +              | +        | +              | +  | +         | +                              | +          | +         | +              | +  | PA                             | +           | +                | +          | +        | +        | +    | +              | +            | PA          | 2 | a |
| 2748      | Lait cru              | Raw milk               | +                           | +              | +        | +              | +  | +         | +                              | +          | +         | +              | +  | PA                             | +           | +                | +          | +        | +        | +    | +              | +            | PA          | 2 | a |
| 2749      | Lait cru              | Raw milk               | +                           | +              | +        | +              | +  | +         | +                              | +          | +         | +              | +  | PA                             | +           | +                | +          | +        | +        | +    | +              | +            | PA          | 2 | a |
| 2900      | Lait cru              | Raw milk               | -                           | +              | -        | -              | -  | +         | -                              | /          | /         | +(ims2)        | +  | PD                             | +           | -                | /          | /        | +(ims2)  | +    | +              | +            | PD          | 2 | a |
| 2901      | Lait cru              | Raw milk               | +                           | +              | /        | /              | +  | +         | -                              | /          | /         | +(ims1)        | +  | PA                             | +           | -                | /          | /        | +(ims1)  | +    | +              | +            | PA          | 2 | a |
| 2902      | Lait cru              | Raw milk               | +                           | +              | /        | /              | +  | +         | +/-                            | +          | +         | +              | +  | PA                             | +           | +/-              | +          | +        | +        | +    | +              | +            | PA          | 2 | a |
| 2903      | Lait cru              | Raw milk               | +                           | +              | /        | /              | +  | +         | +                              | +          | +         | +              | +  | PA                             | +           | +                | +          | +        | +        | +    | +              | +            | PA          | 2 | a |
| 2904      | Lait cru              | Raw milk               | +                           | +              | /        | /              | +  | +         | +/-                            | -          | /         | +(ims2)        | +  | PA                             | +           | +/-              | -          | /        | +(ims2)  | +    | +              | +            | PA          | 2 | a |
| 2905      | Lait cru              | Raw milk               | +                           | +              | /        | /              | +  | +         | +                              | +          | +         | +              | +  | PA                             | +           | +                | +          | +        | +        | +    | +              | +            | PA          | 2 | a |
| 2945      | Lait cru              | Raw milk               | +                           | +              | /        | /              | +  | +         | + 2col                         | +          | +         | +              | +  | PA                             | +           | + 2col           | +          | +        | +        | +    | +              | +            | PA          | 2 | a |
| 2946      | Lait cru              | Raw milk               | +                           | -              | +        | -              | -  | -         | -                              | /          | /         | -              | -  | NA                             | -           | -                | /          | /        | -        | -    | -              | -            | NA          | 2 | a |
| 2947      | Lait cru              | Raw milk               | +                           | +              | /        | /              | +  | +         | +                              | +          | +         | +              | +  | PA                             | +           | +                | +          | +        | +        | +    | +              | +            | PA          | 2 | a |
| 2948      | Lait cru              | Raw milk               | +                           | +              | /        | /              | +  | +         | -                              | /          | /         | +(ims1)        | +  | PA                             | -/-         | -                | /          | /        | +(ims1)  | -    | -              | -            | ND          | 2 | a |
| 2949      | Lait cru              | Raw milk               | +                           | +              | /        | /              | +  | +         | +                              | +          | +         | +              | +  | PA                             | +           | +                | +          | +        | +        | +    | +              | +            | PA          | 2 | a |
| 2950      | Lait cru              | Raw milk               | +                           | +              | /        | /              | +  | +         | + 2col                         | +          | +         | +              | +  | PA                             | +           | + 2col           | +          | +        | +        | +    | +              | +            | PA          | 2 | a |
| 2951      | Lait cru              | Raw milk               | +                           | +              | +        | +              | +  | +         | + 2col                         | +          | +         | +              | +  | PA                             | +           | + 2col           | +          | +        | +        | +    | +              | +            | PA          | 2 | a |
| 2952      | Lait cru              | Raw milk               | +                           | +              | +        | +              | +  | +         | +                              | +          | +         | +              | +  | PA                             | +           | +                | +          | +        | +        | +    | +              | +            | PA          | 2 | a |
| 2953      | Lait cru              | Raw milk               | -                           | +              | -        | +/-            | -  | -         | /                              | /          | /         | /              | -  | NA                             | -           | /                | /          | /        | /        | -    | -              | -            | NA          | 2 | a |
| 2954      | Lait cru              | Raw milk               | -                           | -              | +/-      | -              | -  | -         | /                              | /          | /         | /              | -  | NA                             | -           | /                | /          | /        | /        | -    | -              | -            | NA          | 2 | a |
| 2955      | Lait cru              | Raw milk               | +                           | -              | +        | -              | -  | -         | /                              | /          | /         | /              | -  | NA                             | -           | /                | /          | /        | /        | -    | -              | -            | NA          | 2 | a |
| 2956      | Lait cru              | Raw milk               | +                           | -              | +/-      | -              | -  | -         | /                              | /          | /         | /              | -  | NA                             | -           | /                | /          | /        | /        | -    | -              | -            | NA          | 2 | a |
| 2957      | Lait cru              | Raw milk               | +                           | -              | -        | -              | -  | -         | /                              | /          | /         | /              | -  | NA                             | -           | /                | /          | /        | /        | -    | -              | -            | NA          | 2 | a |
| 2958      | Lait cru              | Raw milk               | -                           | +              | -        | -              | -  | -         | /                              | /          | /         | /              | -  | NA                             | -           | /                | /          | /        | /        | -    | -              | -            | NA          | 2 | a |
| 2959      | Lait cru              | Raw milk               | +                           | -              | +        | -              | -  | -         | /                              | /          | /         | /              | -  | NA                             | -           | /                | /          | /        | /        | -    | -              | -            | NA          | 2 | a |
| 2960      | Lait cru              | Raw milk               | -                           | +/-            | -        | +/-            | -  | -         | /                              | /          | /         | /              | -  | NA                             | -           | /                | /          | /        | /        | -    | -              | -            | NA          | 2 | a |
| 2961      | Lait cru              | Raw milk               | -                           | -              | +        | -              | -  | -         | /                              | /          | /         | /              | -  | NA                             | -           | /                | /          | /        | /        | -    | -              | -            | NA          | 2 | a |
| 2962      | Lait cru              | Raw milk               | +                           | -              | +        | -              | -  | -         | /                              | /          | /         | /              | -  | NA                             | -           | /                | /          | /        | /        | -    | -              | -            | NA          | 2 | a |
| 2963      | Lait cru              | Raw milk               | -                           | -              | +        | -              | -  | -         | /                              | /          | /         | /              | -  | NA                             | -           | /                | /          | /        | /        | -    | -              | -            | NA          | 2 | a |
| 2964      | Lait cru              | Raw milk               | -                           | -              | +        | -              | -  | -         | /                              | /          | /         | /              | -  | NA                             | -           | /                | /          | /        | /        | -    | -              | -            | NA          | 2 | a |

\* Analyses performed according to the COFRAC accreditation

RAW MILK (mTSB protocol)

| Sample N° | Product (French name) | Product (English name) | Reference method ISO 16654* |                      | Alternative method: BAX® <i>E.coli</i> O157:H7 MP mTSB + novobiocin 18 h at 41.5°C |                |              |           |                                |            |           |                |              |             | Alternative method: BAX® <i>E.coli</i> O157:H7 MP Express mTSB + novobiocin 18 h at 41.5°C |                                |            |          |                |              | Category | Type |             |
|-----------|-----------------------|------------------------|-----------------------------|----------------------|--|----------------|--------------|-----------|--------------------------------|------------|-----------|----------------|--------------|-------------|--|--------------------------------|------------|----------|----------------|--------------|----------|------|-------------|
|           |                       |                        | IMS 6H                      |                      | IMS 24H  |                | Final result | PCR Reult | Direct streaking onto CT- SMAC |            |           |                |              |             | PCR Reult  | Direct streaking onto CT- SMAC |            |          |                |              |          |      |             |
|           |                       |                        | CT- SMAC                    | CHROMagar O157       | CT- SMAC   | CHROMagar O157 |              |           | Typical colonies               | Latex O157 | Late x H7 | Confir- mation | Final result | Agree- ment |  | Typical colonies               | Latex O157 | Latex H7 | Confir- mation | Final result |          |      | Agree- ment |
| 2965      | Lait cru              | Raw milk               | +                           | -                    | +  | -              | -            | -         | /                              | /          | /         | /              | -            | NA          | -  | /                              | /          | /        | /              | -            | NA       | 2    | a           |
| 2966      | Lait cru              | Raw milk               | -                           | -                    | +  | -              | -            | -         | /                              | /          | /         | /              | -            | NA          | -  | /                              | /          | /        | /              | -            | NA       | 2    | a           |
| 2967      | Lait cru              | Raw milk               | -                           | -                    | +  | +/-            | -            | -         | /                              | /          | /         | /              | -            | NA          | -  | /                              | /          | /        | /              | -            | NA       | 2    | a           |
| 2968      | Lait cru              | Raw milk               | -                           | -                    | +  | -              | -            | -         | /                              | /          | /         | /              | -            | NA          | -  | /                              | /          | /        | /              | -            | NA       | 2    | a           |
| 2979      | Lait cru              | Raw milk               | -                           | -                    | -  | -              | -            | -         | /                              | /          | /         | /              | -            | NA          | -  | /                              | /          | /        | /              | -            | NA       | 2    | a           |
| 2980      | Lait cru              | Raw milk               | +                           | -                    | -  | -              | -            | -         | /                              | /          | /         | /              | -            | NA          | -  | /                              | /          | /        | /              | -            | NA       | 2    | a           |
| 2981      | Lait cru              | Raw milk               | +                           | -                    | +  | -              | -            | -         | /                              | /          | /         | /              | -            | NA          | -  | /                              | /          | /        | /              | -            | NA       | 2    | a           |
| 2982      | Lait cru              | Raw milk               | +                           | -                    | +/-  | -              | -            | -         | /                              | /          | /         | /              | -            | NA          | -  | /                              | /          | /        | /              | -            | NA       | 2    | a           |
| 2983      | Lait cru              | Raw milk               | -                           | -                    | -  | -              | -            | -         | /                              | /          | /         | /              | -            | NA          | -  | /                              | /          | /        | /              | -            | NA       | 2    | a           |
| 2984      | Lait cru              | Raw milk               | +                           | -                    | +/-  | -              | -            | -         | /                              | /          | /         | /              | -            | NA          | -  | /                              | /          | /        | /              | -            | NA       | 2    | a           |
| 2985      | Lait cru              | Raw milk               | +                           | -                    | +/-  | -              | -            | -         | /                              | /          | /         | /              | -            | NA          | -  | /                              | /          | /        | /              | -            | NA       | 2    | a           |
| 2986      | Lait cru              | Raw milk               | +                           | -                    | +  | -              | -            | -         | /                              | /          | /         | /              | -            | NA          | -  | /                              | /          | /        | /              | -            | NA       | 2    | a           |
| 2987      | Lait cru              | Raw milk               | +                           | -                    | +  | -              | -            | -         | /                              | /          | /         | /              | -            | NA          | -  | /                              | /          | /        | /              | -            | NA       | 2    | a           |
| 2988      | Lait cru              | Raw milk               | +                           | +/-                  | +  | -              | -            | -         | /                              | /          | /         | /              | -            | NA          | -  | /                              | /          | /        | /              | -            | NA       | 2    | a           |
| 2989      | Lait cru              | Raw milk               | +                           | -                    | +  | -              | -            | -         | /                              | /          | /         | /              | -            | NA          | -  | /                              | /          | /        | /              | -            | NA       | 2    | a           |
| 2990      | Lait cru              | Raw milk               | -                           | -                    | +  | -              | -            | +/-       | -                              | /          | /         | -              | -            | NA          | -  | -                              | /          | /        | -              | -            | NA       | 2    | a           |
| 2991      | Lait cru              | Raw milk               | -                           | -                    | -  | +/-            | -            | -         | /                              | /          | /         | /              | -            | NA          | -  | /                              | /          | /        | /              | -            | NA       | 2    | a           |
| 2992      | Lait cru              | Raw milk               | +                           | +                    | /  | /              | +            | +         | +                              | +          | +         | +              | +            | PA          | +  | +                              | +          | +        | +              | +            | PA       | 2    | a           |
| 2993      | Lait cru              | Raw milk               | +                           | +/-                  | /  | /              | +            | +         | +                              | +          | +         | +              | +            | PA          | +  | +                              | +          | +        | +              | +            | PA       | 2    | a           |
| 8042      | Lait cru              | Raw milk               | +1/2d (latex -, indol-)     | -                    | -  | -              | -            | -         | -                              | /          | /         | /              | -            | NA          | -  | -                              | /          | /        | /              | -            | NA       | 2    | a           |
| 8043      | Lait cru              | Raw milk               | +1/2                        | +M                   | /  | /              | +            | -         | -                              | /          | /         | /              | -            | ND          | -  | -                              | /          | /        | /              | -            | ND       | 2    | a           |
| 8044      | Lait cru fermier      | Raw milk               | +Md(latex -, indol-)        | +md(latex -, indol-) | -  | -              | -            | -         | -                              | /          | /         | /              | -            | NA          | -  | -                              | /          | /        | /              | -            | NA       | 2    | a           |
| 8045      | Lait cru fermier      | Raw milk               | +md(latex -, indol-)        | +md (NC)             | -  | -              | -            | -         | -                              | /          | /         | /              | -            | NA          | -  | -                              | /          | /        | /              | -            | NA       | 2    | a           |
| 8046      | Lait cru              | Raw milk               | +d (NC)                     | +md(latex -, indol-) | -  | -              | -            | -         | -                              | /          | /         | /              | -            | NA          | -  | -                              | /          | /        | /              | -            | NA       | 2    | a           |
| 8047      | Lait cru              | Raw milk               | +md (NC)                    | +md (NC)             | -  | -              | -            | -         | -                              | /          | /         | /              | -            | NA          | -  | -                              | /          | /        | /              | -            | NA       | 2    | a           |
| 8048      | Lait cru fermier      | Raw milk               | +M                          | +1/2                 | /  | /              | +            | +         | +M                             | +          | +         | +              | +            | PA          | +  | +M                             | +          | +        | +              | +            | PA       | 2    | a           |
| 8049      | Lait cru fermier      | Raw milk               | +d(1) (NC)                  | -                    | -  | -              | -            | -         | -                              | /          | /         | /              | -            | NA          | -  | -                              | /          | /        | /              | -            | NA       | 2    | a           |
| 8050      | Lait cru fermier      | Raw milk               | +M                          | +m                   | /  | /              | +            | -/+       | -                              | /          | /         | +(ims1)        | -            | ND          | +/+  | -                              | /          | /        | +(ims1)        | +            | PA       | 2    | a           |
| 8051      | Lait cru fermier      | Raw milk               | +M                          | +m                   | /  | /              | +            | +         | +M                             | +          | +         | +              | +            | PA          | +  | +M                             | +          | +        | +              | +            | PA       | 2    | a           |
| 8052      | Lait cru fermier      | Raw milk               | +md(latex -, indol-)        | +md (NC)             | -  | -              | -            | -         | -                              | /          | /         | /              | -            | NA          | -  | -                              | /          | /        | /              | -            | NA       | 2    | a           |
| 8053      | Lait cru fermier      | Raw milk               | +md(latex -, indol-)        | +md (NC)             | -  | -              | -            | -         | -                              | /          | /         | /              | -            | NA          | -  | -                              | /          | /        | /              | -            | NA       | 2    | a           |
| 8173      | Lait cru fermier      | Raw milk               | +M                          | +M                   | /  | /              | +            | +         | +dni/+M                        | +          | +         | +              | +            | PA          | +  | +dni/+M                        | +          | +        | +              | +            | PA       | 2    | a           |
| 8174      | Lait cru fermier      | Raw milk               | +M                          | +M                   | /  | /              | +            | +         | +dni/+M                        | +          | +         | +              | +            | PA          | +  | +dni/+M                        | +          | +        | +              | +            | PA       | 2    | a           |
| 8175      | Lait cru              | Raw milk               | +md                         | +mdni/+1/2           | +md  | +m             | +            | +         | +md                            | +          | +         | +              | +            | PA          | +  | +md                            | +          | +        | +              | +            | PA       | 2    | a           |

RAW MILK (mTSB protocol)

| Sample N° | Product (French name) | Product (English name) | Reference method ISO 16654* |                |          |                | Alternative method: BAX® <i>E.coli</i> O157:H7 MP mTSB + novobiocin 18 h at 41.5°C |           |                                |            |          |              | Alternative method: BAX® <i>E.coli</i> O157:H7 MP Express mTSB + novobiocin 18 h at 41.5°C |                                |           |                  |            |          | Category | Type |              |              |           |   |   |
|-----------|-----------------------|------------------------|-----------------------------|----------------|----------|----------------|--|-----------|--------------------------------|------------|----------|--------------|--|--------------------------------|-----------|------------------|------------|----------|----------|------|--------------|--------------|-----------|---|---|
|           |                       |                        | IMS 6H                      |                | IMS 24H  |                | Final result   | PCR Reult | Direct streaking onto CT- SMAC |            |          |              | PCR Reult  | Direct streaking onto CT- SMAC |           |                  |            |          |          |      |              |              |           |   |   |
|           |                       |                        | CT- SMAC                    | CHROMagar O157 | CT- SMAC | CHROMagar O157 |  |           | Typical colonies               | Latex O157 | Latex H7 | Confirmation |  | Final result                   | Agreement | Typical colonies | Latex O157 | Latex H7 |          |      | Confirmation | Final result | Agreement |   |   |
| 8176      | Lait cru              | Raw milk               | +m                          | -              | +md      | +md            | +  | +         | +mdni/+m                       | +          | +        | +            | +  | +                              | PA        | +                | +mdni/+m   | +        | +        | +    | +            | +            | PA        | 2 | a |
| 8177      | Lait cru fermier      | Raw milk               | +m                          | +m             | /        | /              | +  | +         | +dni/+M                        | +          | +        | +            | +  | +                              | PA        | +                | +dni/+M    | +        | +        | +    | +            | +            | PA        | 2 | a |
| 8178      | Lait cru fermier      | Raw milk               | +M                          | +1/2           | /        | /              | +  | +         | +dni/+M                        | +          | +        | +            | +  | +                              | PA        | +                | +dni/+M    | +        | +        | +    | +            | +            | PA        | 2 | a |
| 8179      | Lait cru fermier      | Raw milk               | +1/2                        | +m             | /        | /              | +  | +         | +dni/+M                        | +          | +        | +            | +  | +                              | PA        | +                | +dni/+M    | +        | +        | +    | +            | +            | PA        | 2 | a |
| 8180      | Lait cru fermier      | Raw milk               | +m                          | +m             | /        | /              | +  | +         | +dni/+m                        | +          | +        | +            | +  | +                              | PA        | +                | +dni/+m    | +        | +        | +    | +            | +            | PA        | 2 | a |
| 8181      | Lait cru              | Raw milk               | +m                          | +m             | /        | /              | +  | +         | +md                            | +          | +        | +            | +  | +                              | PA        | +                | +md        | +        | +        | +    | +            | +            | PA        | 2 | a |
| 8182      | Lait cru fermier      | Raw milk               | +m                          | +m             | /        | /              | +  | +         | +M                             | +          | +        | +            | +  | +                              | PA        | +                | +M         | +        | +        | +    | +            | +            | PA        | 2 | a |

FRUITS AND VEGETABLES (mTSB protocol)

| Sample N° | Product (French name)                       | Product (English name)      | Reference method ISO 16654* |                |          |                |              | Alternative method: BAX® <i>E.coli</i> O157:H7 MP mTSB + novobiocin 18 h at 41.5°C |                                |            |           |                | Alternative method: BAX® <i>E.coli</i> O157:H7 MP Express mTSB + novobiocin 18 h at 41.5°C |           |                                |                  |            | Category | Type |          |                |              |             |   |   |
|-----------|---|-----------------------------|-----------------------------|----------------|----------|----------------|--------------|--|--------------------------------|------------|-----------|----------------|--|-----------|--------------------------------|------------------|------------|----------|------|----------|----------------|--------------|-------------|---|---|
|           |   |                             | IMS 6H                      |                | IMS 24H  |                | Final result | PCR Reult  | Direct streaking onto CT- SMAC |            |           |                |  | PCR Reult | Direct streaking onto CT- SMAC |                  |            |          |      |          |                |              |             |   |   |
|           |   |                             | CT- SMAC                    | CHROMagar O157 | CT- SMAC | CHROMagar O157 |              |  | Typical colonies               | Latex O157 | Late x H7 | Confir- mation | Final result   |           | Agree- ment                    | Typical colonies | Latex O157 |          |      | Latex H7 | Confir- mation | Final result | Agree- ment |   |   |
| 2467      | Betteraves rouges                           | Red beetroot                | +                           | +              | /        | /              | +            | +  | +                              | +          | +         | +              | +  | +         | PA                             | +                | +          | +        | +    | +        | +              | +            | PA          | 3 | a |
| 2762      | Julienne de légumes surgelés                | Frozen raw vegetables       | +                           | +              | /        | /              | +            | +  | +                              | +          | +         | +              | +  | +         | PA                             | +                | +          | +        | +    | +        | +              | +            | PA          | 3 | a |
| 2763      | Brocolis en fleurettes surgelés             | Frozen broccoli             | +                           | +              | /        | /              | +            | +  | +                              | +          | +         | +              | +  | +         | PA                             | +                | +          | +        | +    | +        | +              | +            | PA          | 3 | a |
| 2764      | Courgettes en rondelles surgelés            | Frozen zucchini             | +                           | +              | /        | /              | +            | +  | +                              | +          | +         | +              | +  | +         | PA                             | +                | +          | +        | +    | +        | +              | +            | PA          | 3 | a |
| 2768      | Poivrons verts en dés surgelés              | Frozen pepper               | +                           | +              | /        | /              | +            | +  | +                              | +          | +         | +              | +  | +         | PA                             | +                | +          | +        | +    | +        | +              | +            | PA          | 3 | a |
| 2769      | Brocolis surgelés                           | Frozen broccoli             | +                           | +              | /        | /              | +            | +  | +                              | +          | +         | +              | +  | +         | PA                             | +                | +          | +        | +    | +        | +              | +            | PA          | 3 | a |
| 2770      | Epinards hachés à la crème fraiche surgelés | Frozen spinach              | -                           | +              | /        | /              | +            | +  | +                              | +          | +         | +              | +  | +         | PA                             | +                | +          | +        | +    | +        | +              | +            | PA          | 3 | a |
| 2771      | Epinards hachés e portions surgelés         | Frozen spinach              | +                           | +              | /        | /              | +            | +  | +                              | +          | +         | +              | +  | +         | PA                             | +                | +          | +        | +    | +        | +              | +            | PA          | 3 | a |
| 2772      | Poêlée à la Méridionale surgelée            | Frozen vegetables           | +                           | +              | /        | /              | +            | +  | +                              | +          | +         | +              | +  | +         | PA                             | +                | +          | +        | +    | +        | +              | +            | PA          | 3 | a |
| 2773      | Julienne de légumes surgelés                | Frozen vegetables           | +                           | -              | /        | /              | +            | +  | +                              | +          | +         | +              | +  | +         | PA                             | +                | +          | +        | +    | +        | +              | +            | PA          | 3 | a |
| 2820      | Chou fleur                                  | Cauliflower                 | +                           | +              | /        | /              | +            | +  | +                              | +          | +         | +              | +  | +         | PA                             | +                | +          | +        | +    | +        | +              | +            | PA          | 3 | a |
| 2821      | Chou fleur                                  | Cauliflower                 | +                           | +              | /        | /              | +            | +  | +                              | +          | +         | +              | +  | +         | PA                             | +                | +          | +        | +    | +        | +              | +            | PA          | 3 | a |
| 2822      | Chou blanc                                  | White cabbage               | +                           | +              | /        | /              | +            | +  | +                              | +          | +         | +              | +  | +         | PA                             | +                | +          | +        | +    | +        | +              | +            | PA          | 3 | a |
| 2823      | Chou blanc                                  | White cabbage               | -                           | -              | +        | +              | +            | +  | +                              | +          | +         | +              | +  | +         | PA                             | +                | +          | +        | +    | +        | +              | +            | PA          | 3 | a |
| 2824      | Mélange chou blanc carotte céleri           | White cabbage carrot celery | -                           | +              | +        | +              | +            | +  | +                              | +          | +         | +              | +  | +         | PA                             | +                | +          | +        | +    | +        | +              | +            | PA          | 3 | a |
| 2825      | Chou rouge                                  | Red cabbage                 | +                           | +              | /        | /              | +            | +  | +                              | +          | +         | +              | +  | +         | PA                             | +                | +          | +        | +    | +        | +              | +            | PA          | 3 | a |
| 2919      | Carottes en rondelles surgelées             | Frozen carrot               | -                           | -              | +/-      | -              | -            | -  | /                              | /          | /         | /              | -  | NA        | -                              | /                | /          | /        | /    | -        | -              | -            | NA          | 3 | a |
| 2920      | Raisins secs                                | Raisin                      | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -  | NA        | -                              | /                | /          | /        | /    | -        | -              | -            | NA          | 3 | a |
| 2921      | Tomates en dés                              | Tomatoes                    | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -  | NA        | -                              | /                | /          | /        | /    | -        | -              | -            | NA          | 3 | a |
| 2922      | Navets en cubes                             | Turnip                      | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -  | NA        | -                              | /                | /          | /        | /    | -        | -              | -            | NA          | 3 | a |
| 2923      | Choux de Bruxelles surgelés                 | Frozen Brussel sprouts      | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -  | NA        | -                              | /                | /          | /        | /    | -        | -              | -            | NA          | 3 | a |
| 2924      | Poivrons verts                              | Green pepper                | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -  | NA        | -                              | /                | /          | /        | /    | -        | -              | -            | NA          | 3 | a |
| 2925      | Julienne de légumes surgelés                | Frozen vegetables           | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -  | NA        | -                              | /                | /          | /        | /    | -        | -              | -            | NA          | 3 | a |
| 2926      | Poêlée champêtre                            | Frozen vegetables           | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -  | NA        | -                              | /                | /          | /        | /    | -        | -              | -            | NA          | 3 | a |
| 2927      | Epinards hachés                             | Spinach                     | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -  | NA        | -                              | /                | /          | /        | /    | -        | -              | -            | NA          | 3 | a |

\* Analyses performed according to the COFRAC accreditation

FRUITS AND VEGETABLES (mTSB protocol)

| Sample N° | Product (French name)                         | Product (English name) | Reference method ISO 16654* |                |          |                |              | Alternative method: BAX® <i>E.coli</i> O157:H7 MP mTSB + novobiocin 18 h at 41.5°C |                                |            |           |                |              | Alternative method: BAX® <i>E.coli</i> O157:H7 MP Express mTSB + novobiocin 18 h at 41.5°C |                                |                  |            |          |                | Category | Type |              |             |
|-----------|---|------------------------|-----------------------------|----------------|----------|----------------|--------------|--|--------------------------------|------------|-----------|----------------|--------------|--|--------------------------------|------------------|------------|----------|----------------|----------|------|--------------|-------------|
|           |   |                        | IMS 6H                      |                | IMS 24H  |                | Final result | PCR Reult  | Direct streaking onto CT- SMAC |            |           |                |              | PCR Reult  | Direct streaking onto CT- SMAC |                  |            |          |                |          |      |              |             |
|           |   |                        | CT- SMAC                    | CHROMagar O157 | CT- SMAC | CHROMagar O157 |              |  | Typical colonies               | Latex O157 | Late x H7 | Confir- mation | Final result |  | Agree- ment                    | Typical colonies | Latex O157 | Latex H7 | Confir- mation |          |      | Final result | Agree- ment |
| 2928      | Brocolis                                      | Broccoli               | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -            | NA   | -                              | /                | /          | /        | /              | -        | NA   | 3            | a           |
| 2473      | Jus de pomme                                  | Apple juice            | +                           | +              | /        | /              | +            | +  | +                              | +          | +         | +              | +            | PA   | +                              | +                | +          | +        | +              | +        | PA   | 3            | b           |
| 2474      | Jus de fruit et lait pêche abricot            | Fruit juice            | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -            | NA   | -                              | /                | /          | /        | /              | -        | NA   | 3            | b           |
| 2475      | Jus d'orange                                  | Orange juice           | -                           | -              | +        | +              | +            | +  | +                              | +          | +         | +              | +            | PA   | +                              | +                | +          | +        | +              | +        | PA   | 3            | b           |
| 2476      | Jus de fruit et lait orange, banane, fraise   | Fruit juice            | +                           | +              | /        | /              | +            | +  | +                              | +          | +         | +              | +            | PA   | +                              | +                | +          | +        | +              | +        | PA   | 3            | b           |
| 2477      | Jus multivitaminé                             | Fruit juice            | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -            | NA   | -                              | /                | /          | /        | /              | -        | NA   | 3            | b           |
| 2478      | Soupe tomate, carotte, céleri                 | Vegetable soup         | +                           | +              | /        | /              | +            | +  | +                              | +          | +         | +              | +            | PA   | +                              | +                | +          | +        | +              | +        | PA   | 3            | b           |
| 2479      | Soupe poivron rouge, concombre, oignon        | Vegetable soup         | +                           | +              | /        | /              | +            | +  | +                              | +          | +         | +              | +            | PA   | +                              | +                | +          | +        | +              | +        | PA   | 3            | b           |
| 2480      | Soupe pomme de terre, carotte, poireau, navet | Vegetable soup         | +                           | +              | /        | /              | +            | +  | +                              | +          | +         | +              | +            | PA   | +                              | +                | +          | +        | +              | +        | PA   | 3            | b           |
| 2840      | Jus de fruit pêche abricot                    | Fruit juice            | -                           | -              | +        | +              | +            | -  | /                              | /          | /         | /              | -            | ND   | -                              | /                | /          | /        | /              | -        | ND   | 3            | b           |
| 2915      | Jus de fruit et lait pêche abricot            | Fruit juice            | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -            | NA   | -                              | /                | /          | /        | /              | -        | NA   | 3            | b           |
| 2916      | Soupe froide à l'Andalouse                    | Vegetable soup         | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -            | NA   | -                              | /                | /          | /        | /              | -        | NA   | 3            | b           |
| 2917      | Jus d'orange, fraise, banane                  | Fruit juice            | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -            | NA   | -                              | /                | /          | /        | /              | -        | NA   | 3            | b           |
| 2918      | 100% pur jus vitaminé                         | Fruit juice            | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -            | NA   | -                              | /                | /          | /        | /              | -        | NA   | 3            | b           |
| 2929      | Préparation à base de fruits jaunes           | Fruit preparation      | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -            | NA   | -                              | /                | /          | /        | /              | -        | NA   | 3            | b           |
| 2930      | Préparation à base de fruits rouges           | Fruit preparation      | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -            | NA   | -                              | /                | /          | /        | /              | -        | NA   | 3            | b           |
| 2931      | Préparation à base de fruits rouges           | Fruit preparation      | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -            | NA   | -                              | /                | /          | /        | /              | -        | NA   | 3            | b           |
| 2814      | Cidre traditionnel                            | Cider                  | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -            | NA   | -                              | /                | /          | /        | /              | -        | NA   | 3            | c           |
| 2815      | Cidre traditionnel                            | Cider                  | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -            | NA   | -                              | /                | /          | /        | /              | -        | NA   | 3            | c           |
| 2817      | Cidre traditionnel                            | Cider                  | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -            | NA   | -                              | /                | /          | /        | /              | -        | NA   | 3            | c           |
| 2826      | Choucroute crue                               | Sauerkraut             | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -            | NA   | -                              | /                | /          | /        | /              | -        | NA   | 3            | c           |
| 2827      | Olives vertes                                 | Green olive            | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -            | NA   | -                              | /                | /          | /        | /              | -        | NA   | 3            | c           |
| 2841      | Cidre bouché brut                             | Cider                  | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -            | NA   | -                              | /                | /          | /        | /              | -        | NA   | 3            | c           |
| 2842      | Cidre traditionnel                            | Cider                  | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -            | NA   | -                              | /                | /          | /        | /              | -        | NA   | 3            | c           |
| 2843      | Cidre fermier                                 | Cider                  | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -            | NA   | -                              | /                | /          | /        | /              | -        | NA   | 3            | c           |
| 2906      | Choucroute crue                               | Sauerkraut             | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -            | NA   | -                              | /                | /          | /        | /              | -        | NA   | 3            | c           |
| 2907      | Olives vertes                                 | Green olive            | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -            | NA   | -                              | /                | /          | /        | /              | -        | NA   | 3            | c           |

FRUITS AND VEGETABLES (mTSB protocol)

| Sample N° | Product (French name)              | Product (English name)  | Reference method ISO 16654* |                |          |                | Alternative method: BAX® <i>E.coli</i> O157:H7 MP mTSB + novobiocin 18 h at 41.5°C |           |                                |            |           |                | Alternative method: BAX® <i>E.coli</i> O157:H7 MP Express mTSB + novobiocin 18 h at 41.5°C |                                |             |                  |            |          | Category | Type |                |              |             |
|-----------|------------------------------------|-------------------------|-----------------------------|----------------|----------|----------------|--|-----------|--------------------------------|------------|-----------|----------------|--|--------------------------------|-------------|------------------|------------|----------|----------|------|----------------|--------------|-------------|
|           |                                    |                         | IMS 6H                      |                | IMS 24H  |                | Final result   | PCR Reult | Direct streaking onto CT- SMAC |            |           |                | PCR Reult  | Direct streaking onto CT- SMAC |             |                  |            |          |          |      |                |              |             |
|           |                                    |                         | CT- SMAC                    | CHROMagar O157 | CT- SMAC | CHROMagar O157 |  |           | Typical colonies               | Latex O157 | Late x H7 | Confir- mation |  | Final result                   | Agree- ment | Typical colonies | Latex O157 | Latex H7 |          |      | Confir- mation | Final result | Agree- ment |
| 2908      | Cidre traditionnel                 | Cider                   | -                           | -              | -        | -              | -  | /         | /                              | /          | /         | -              | NA   | -                              | /           | /                | /          | /        | -        | NA   | 3              | c            |             |
| 2909      | Choucroute crue                    | Sauerkraut              | -                           | -              | -        | -              | -  | /         | /                              | /          | /         | -              | NA   | -                              | /           | /                | /          | /        | -        | NA   | 3              | c            |             |
| 2910      | Olives vertes                      | Green olive             | -                           | -              | -        | -              | -  | /         | /                              | /          | /         | -              | NA   | -                              | /           | /                | /          | /        | -        | NA   | 3              | c            |             |
| 2911      | Cidre traditionnel                 | Cider                   | -                           | -              | -        | -              | -  | /         | /                              | /          | /         | -              | NA   | -                              | /           | /                | /          | /        | -        | NA   | 3              | c            |             |
| 2998      | Choucroute crue                    | Sauerkraut              | +                           | +              | +        | +              | +  | +         | +                              | +          | +         | +              | PA   | +                              | +           | +                | +          | +        | +        | PA   | 3              | c            |             |
| 8054      | Cornichon au vinaigre              | Pickle                  | st                          | st             | st       | st             | -  | -         | st                             | /          | /         | /              | -  | NA                             | -           | st               | /          | /        | /        | -    | NA             | 3            | c           |
| 8055      | Cornichon au vinaigre              | Pickle                  | st                          | st             | st       | st             | -  | -         | st                             | /          | /         | /              | -  | NA                             | -           | st               | /          | /        | /        | -    | NA             | 3            | c           |
| 8056      | Cornichon recette paysanne         | Pickle                  | +p(9)                       | -              | +p       | +p             | +  | +         | +p                             | +          | +         | +              | +  | PA                             | +           | +p               | +          | +        | +        | +    | PA             | 3            | c           |
| 8057      | Cornichon recette paysanne         | Pickle                  | +p(23)                      | +p(19)         | +p       | +p             | +  | +         | +p                             | +          | +         | +              | +  | PA                             | +           | +p               | +          | +        | +        | +    | PA             | 3            | c           |
| 8058      | Choucroute                         | Sauerkraut              | st                          | st             | st       | st             | -  | -         | st                             | /          | /         | /              | -  | NA                             | -           | st               | /          | /        | /        | -    | NA             | 3            | c           |
| 8059      | Choucroute                         | Sauerkraut              | st                          | st             | st       | st             | -  | -         | st                             | /          | /         | /              | -  | NA                             | -           | st               | /          | /        | /        | -    | NA             | 3            | c           |
| 8060      | Cidre normandie                    | Cider                   | +p                          | +p             | /        | /              | +  | +         | +p                             | +          | +         | +              | +  | PA                             | +           | +p               | +          | +        | +        | +    | PA             | 3            | c           |
| 8061      | Cidre normandie                    | Cider                   | st                          | st             | st       | st             | -  | -         | st                             | /          | /         | /              | -  | NA                             | -           | st               | /          | /        | /        | -    | NA             | 3            | c           |
| 8062      | Cidre bretagne                     | Cider                   | st                          | st             | st       | st             | -  | -         | st                             | /          | /         | /              | -  | NA                             | -           | st               | /          | /        | /        | -    | NA             | 3            | c           |
| 8183      | Carottes lacto-fermentée           | Fermented carott        | +(2) (NC)                   | -              | st       | st             | -  | -         | st                             | /          | /         | /              | -  | NA                             | -           | st               | /          | /        | /        | -    | NA             | 3            | c           |
| 8184      | Carottes lacto-fermentée           | Fermented carott        | -                           | -              | st       | st             | -  | -         | st                             | /          | /         | /              | -  | NA                             | -           | st               | /          | /        | /        | -    | NA             | 3            | c           |
| 8185      | Chou blanc lacto-fermenté          | Fermented white cabbage | +p                          | +p             | /        | /              | +  | +         | +p                             | +          | +         | +              | +  | PA                             | +           | +p               | +          | +        | +        | +    | PA             | 3            | c           |
| 8186      | Chou blanc lacto-fermenté          | Fermented white cabbage | +p                          | +p             | /        | /              | +  | +         | +p                             | +          | +         | +              | +  | PA                             | +           | +p               | +          | +        | +        | +    | PA             | 3            | c           |
| 8187      | Cocktail de légumes lacto-fermenté | Fermented vegetables    | st                          | st             | st       | st             | -  | -         | st                             | /          | /         | /              | -  | NA                             | -           | st               | /          | /        | /        | -    | NA             | 3            | c           |
| 8188      | Cocktail de légumes lacto-fermenté | Fermented vegetables    | st                          | st             | st       | st             | -  | -         | st                             | /          | /         | /              | -  | NA                             | -           | st               | /          | /        | /        | -    | NA             | 3            | c           |
| 8189      | Radis noir lacto-fermenté          | Fermented black radish  | +p                          | +p             | /        | /              | +  | +         | +p                             | +          | +         | +              | +  | PA                             | +           | +p               | +          | +        | +        | +    | PA             | 3            | c           |
| 8190      | Radis noir lacto-fermenté          | Fermented black radish  | +p                          | +p             | /        | /              | +  | +         | +p                             | +          | +         | +              | +  | PA                             | +           | +p               | +          | +        | +        | +    | PA             | 3            | c           |
| 8191      | Chou rouge lacto-fermenté          | Fermented red cabbage   | +p                          | +p             | /        | /              | +  | +         | +p                             | +          | +         | +              | +  | PA                             | +           | +p               | +          | +        | +        | +    | PA             | 3            | c           |
| 8192      | Olives vertes dénoyautées          | Olives                  | st                          | st             | st       | st             | -  | -         | st                             | /          | /         | /              | -  | NA                             | -           | st               | /          | /        | /        | -    | NA             | 3            | c           |

READY TO EAT AND READY TO REHEAT DISHES, RAW MEAT (pork, chicken, ovine) (mTSB protocol)

| Sample N° | Product (French name)                   | Product (English name) | Reference method ISO 16654* |                |          |                |              | Alternative method: BAX® <i>E.coli</i> O157:H7 MP mTSB + novobiocin 18 h at 41,5°C |                                |            |           |                |              |           | Alternative method: BAX® <i>E.coli</i> O157:H7 MP Express mTSB + novobiocin 18 h at 41,5°C |                  |            |          |                | Category | Type |              |             |   |   |
|-----------|---|------------------------|-----------------------------|----------------|----------|----------------|--------------|--|--------------------------------|------------|-----------|----------------|--------------|-----------|--|------------------|------------|----------|----------------|----------|------|--------------|-------------|---|---|
|           |   |                        | IMS 6H                      |                | IMS 24H  |                | Final result | PCR Reult  | Direct streaking onto CT- SMAC |            |           |                |              | PCR Reult | Direct streaking onto CT- SMAC   |                  |            |          |                |          |      |              |             |   |   |
|           |   |                        | CT- SMAC                    | CHROMagar O157 | CT- SMAC | CHROMagar O157 |              |  | Typical colonies               | Latex O157 | Late x H7 | Confir- mation | Final result |           | Agree- ment  | Typical colonies | Latex O157 | Latex H7 | Confir- mation |          |      | Final result | Agree- ment |   |   |
| 2465      | Emincé de museau de porc à la Lyonnaise | RTE food               | -                           | -              | +        | +              | +            | +  | +                              | +          | +         | +              | +            | +         | PA   | +                | +          | +        | +              | +        | +    | +            | PA          | 4 | a |
| 2466      | Salade camarguaise                      | RTE food               | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -            | NA        | -  | /                | /          | /        | /              | -        | NA   | -            | NA          | 4 | a |
| 2468      | Taboulé à la volaille                   | RTE Salad              | +                           | +              | /        | /              | +            | +  | +                              | +          | +         | +              | +            | PA        | +  | +                | +          | +        | +              | +        | +    | +            | PA          | 4 | a |
| 2469      | Taboulé au poulet                       | RTE Salad              | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -            | NA        | -  | /                | /          | /        | /              | -        | NA   | -            | NA          | 4 | a |
| 2470      | Salade camarguaise                      | RTE Salad              | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -            | NA        | -  | /                | /          | /        | /              | -        | NA   | -            | NA          | 4 | a |
| 2471      | Salade de chou rouge                    | Red cabbage salad      | +                           | +              | /        | /              | +            | +  | +                              | +          | +         | +              | +            | PA        | +  | +                | +          | +        | +              | +        | +    | +            | PA          | 4 | a |
| 2472      | Cervelas vinaigrette à l'Alsacienne     | RTE food               | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -            | NA        | -  | /                | /          | /        | /              | -        | NA   | -            | NA          | 4 | a |
| 2750      | Cervelas vinaigrette à l'Alsacienne     | RTE food               | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -            | NA        | -  | /                | /          | /        | /              | -        | NA   | -            | NA          | 4 | a |
| 2751      | Museau de porc à la lyonnaise           | RTE food               | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -            | NA        | -  | /                | /          | /        | /              | -        | NA   | -            | NA          | 4 | a |
| 2752      | Taboulé au poulet                       | RTE Salad              | +                           | +              | /        | /              | +            | +  | +                              | +          | +         | +              | +            | PA        | +  | +                | +          | +        | +              | +        | +    | +            | PA          | 4 | a |
| 2753      | Taboulé à la volaille                   | RTE Salad              | +                           | +              | /        | /              | +            | +  | +                              | +          | +         | +              | +            | PA        | +  | +                | +          | +        | +              | +        | +    | +            | PA          | 4 | a |
| 2754      | Salade camarguaise                      | RTE Salad              | +                           | +              | /        | /              | +            | +  | +                              | +          | +         | +              | +            | PA        | +  | +                | +          | +        | +              | +        | +    | +            | PA          | 4 | a |
| 2755      | Salade de chou rouge                    | RTE Salad              | +                           | +              | /        | /              | +            | +  | +                              | +          | +         | +              | +            | PA        | +  | +                | +          | +        | +              | +        | +    | +            | PA          | 4 | a |
| 2756      | Salade camarguaise                      | RTE Salad              | +                           | +              | /        | /              | +            | +  | +                              | +          | +         | +              | +            | PA        | +  | +                | +          | +        | +              | +        | +    | +            | PA          | 4 | a |
| 2757      | Betteraves rouges                       | Red beetroot           | +                           | +              | /        | /              | +            | +  | +                              | +          | +         | +              | +            | PA        | +  | +                | +          | +        | +              | +        | +    | +            | PA          | 4 | a |
| 2758      | Macédoine de légumes                    | RTE Salad              | +                           | +              | /        | /              | +            | +  | +                              | +          | +         | +              | +            | PA        | +  | +                | +          | +        | +              | +        | +    | +            | PA          | 4 | a |
| 2759      | Entremêlés de pâtes et écrevisses       | RTE food               | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -            | NA        | -  | /                | /          | /        | /              | -        | NA   | -            | NA          | 4 | a |
| 2760      | Salade piémontaise aux champignons      | RTE Salad              | +                           | +              | /        | /              | +            | +  | +                              | +          | +         | +              | +            | PA        | +  | +                | +          | +        | +              | +        | +    | +            | PA          | 4 | a |
| 2761      | Salade strasbourgeoise                  | RTE Salad              | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -            | NA        | -  | /                | /          | /        | /              | -        | NA   | -            | NA          | 4 | a |
| 2859      | Quiche Lorraine                         | RTE Food               | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -            | NA        | -  | /                | /          | /        | /              | -        | NA   | -            | NA          | 4 | a |
| 2865      | Quiche Lorraine                         | RTE Food               | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -            | NA        | -  | /                | /          | /        | /              | -        | NA   | -            | NA          | 4 | a |
| 2868      | Cake aux lardons et olives              | RTE Cake               | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -            | NA        | -  | /                | /          | /        | /              | -        | NA   | -            | NA          | 4 | a |
| 2934      | Cake jambon olives                      | RTE Cake               | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -            | NA        | -  | /                | /          | /        | /              | -        | NA   | -            | NA          | 4 | a |
| 2935      | Quiche Lorraine                         | RTE food               | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -            | NA        | -  | /                | /          | /        | /              | -        | NA   | -            | NA          | 4 | a |
| 2804      | Poulet sauce aigre douce                | RTRH chicken meat      | +                           | +              | +        | +              | +            | +  | +                              | +          | +         | +              | +            | PA        | +  | +                | +          | +        | +              | +        | +    | +            | PA          | 4 | b |
| 2805      | Poulet sauce aigre douce                | RTRH chicken meat      | +                           | +              | /        | /              | +            | +  | +                              | +          | +         | +              | +            | PA        | +  | +                | +          | +        | +              | +        | +    | +            | PA          | 4 | b |

\* Analyses performed according to the COFRAC accreditation

READY TO EAT AND READY TO REHEAT DISHES, RAW MEAT (pork, chicken, ovine) (mTSB protocol)

| Sample N° | Product (French name)          | Product (English name) | Reference method ISO 16654* |                |          |                |              | Alternative method: BAX® <i>E.coli</i> O157:H7 MP mTSB + novobiocin 18 h at 41,5°C |                                |            |           |                |              | Alternative method: BAX® <i>E.coli</i> O157:H7 MP Express mTSB + novobiocin 18 h at 41,5°C |                                |                  |            |          |                | Category | Type |              |             |   |   |
|-----------|--------------------------------|------------------------|-----------------------------|----------------|----------|----------------|--------------|--|--------------------------------|------------|-----------|----------------|--------------|--|--------------------------------|------------------|------------|----------|----------------|----------|------|--------------|-------------|---|---|
|           |                                |                        | IMS 6H                      |                | IMS 24H  |                | Final result | PCR Reult  | Direct streaking onto CT- SMAC |            |           |                |              | PCR Reult  | Direct streaking onto CT- SMAC |                  |            |          |                |          |      |              |             |   |   |
|           |                                |                        | CT- SMAC                    | CHROMagar O157 | CT- SMAC | CHROMagar O157 |              |  | Typical colonies               | Latex O157 | Late x H7 | Confir- mation | Final result |  | Agree- ment                    | Typical colonies | Latex O157 | Latex H7 | Confir- mation |          |      | Final result | Agree- ment |   |   |
| 2807      | Emincé de porc cuisiné         | RTRH pork meat         | +                           | +              | /        | /              | +            | +  | +                              | +          | +         | +              | +            | +  | PA                             | +                | +          | +        | +              | +        | +    | +            | PA          | 4 | b |
| 2808      | Tomates farcies                | RTRH tomatoes          | +                           | +              | /        | /              | +            | +  | +                              | +          | +         | +              | +            | +  | PA                             | +                | +          | +        | +              | +        | +    | +            | PA          | 4 | b |
| 2809      | Tomates farcies                | RTRH tomatoes          | +                           | +              | /        | /              | +            | +  | +                              | +          | +         | +              | +            | +  | PA                             | +                | +          | +        | +              | +        | +    | +            | PA          | 4 | b |
| 2810      | Lasagnes                       | RTRH food              | +                           | +              | /        | /              | +            | +  | +                              | +          | +         | +              | +            | +  | PA                             | +                | +          | +        | +              | +        | +    | +            | PA          | 4 | b |
| 2813      | Aubergines farcies             | RTRH eggplant          | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -            | NA   | -                              | /                | /          | /        | /              | -        | -    | -            | NA          | 4 | b |
| 2857      | Porc au caramel                | RTRH pork meat         | -                           | +              | +/-      | -              | -            | -  | /                              | /          | /         | /              | -            | NA   | -                              | /                | /          | /        | /              | -        | -    | -            | NA          | 4 | b |
| 2858      | Rognons de porc cuisinés       | RTRH pork meat         | +                           | +              | /        | /              | +            | +  | +                              | +          | +         | +              | +            | +  | PA                             | +                | +          | +        | +              | +        | +    | +            | PA          | 4 | b |
| 2860      | Bouchées à la reine            | RTRH food              | +                           | +              | /        | /              | +            | +  | +                              | +          | +         | +              | +            | +  | PA                             | +                | +          | +        | +              | +        | +    | +            | PA          | 4 | b |
| 2863      | Porc au caramel                | RTRH pork meat         | -                           | +              | -        | -              | -            | -  | /                              | /          | /         | /              | -            | NA   | -                              | /                | /          | /        | /              | -        | -    | -            | NA          | 4 | b |
| 2864      | Rognons de porc cuisinés       | RTRH pork meat         | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -            | NA   | -                              | /                | /          | /        | /              | -        | -    | -            | NA          | 4 | b |
| 2866      | Bouchées à la reine            | RTRH food              | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -            | NA   | -                              | /                | /          | /        | /              | -        | -    | -            | NA          | 4 | b |
| 2867      | Friand à la chair              | RTRH food              | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -            | NA   | -                              | /                | /          | /        | /              | -        | -    | -            | NA          | 4 | b |
| 2869      | Fricadelles                    | RTRH pork meat         | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -            | NA   | -                              | /                | /          | /        | /              | -        | -    | -            | NA          | 4 | b |
| 2870      | Poulet aigre doux              | RTRH chicken meat      | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -            | NA   | -                              | /                | /          | /        | /              | -        | -    | -            | NA          | 4 | b |
| 2932      | Nems au poulet                 | RTRH chicken meat      | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -            | NA   | -                              | /                | /          | /        | /              | -        | -    | -            | NA          | 4 | b |
| 2933      | Emincé de porc Shanganaise     | RTRH pork meat         | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -            | NA   | -                              | /                | /          | /        | /              | -        | -    | -            | NA          | 4 | b |
| 2936      | Bouchée à la reine             | RTRH food              | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -            | NA   | -                              | /                | /          | /        | /              | -        | -    | -            | NA          | 4 | b |
| 8063      | Poulet tomates purée courgette | RTRH chicken meat      | +p                          | +p             | /        | /              | +            | +  | +p                             | +          | +         | +              | +            | +  | PA                             | +                | +p         | +        | +              | +        | +    | +            | PA          | 4 | b |
| 8064      | Petit salé lentilles vertes    | RTRH pork meat         | st                          | st             | st       | st             | -            | -  | st                             | /          | /         | /              | -            | NA   | -                              | st               | /          | /        | /              | -        | -    | -            | NA          | 4 | b |
| 2794      | Côte de porc                   | Pork meat              | -                           | -              | +        | +              | +            | +  | +                              | +          | +         | +              | +            | +  | PA                             | +                | +          | +        | +              | +        | +    | +            | PA          | 4 | c |
| 2797      | Cuisse de poulet               | Chicken meat           | -                           | +              | -        | -              | -            | -  | -                              | /          | /         | -              | -            | NA   | -                              | -                | /          | /        | -              | -        | -    | -            | NA          | 4 | c |
| 2802      | Filet de poulet                | Chicken meat           | -                           | +              | +        | +              | +            | +  | +                              | +          | +         | +              | +            | +  | PA                             | +                | +          | +        | +              | +        | +    | +            | PA          | 4 | c |
| 2855      | Côte de porc échine            | Pork meat              | +                           | +              | /        | /              | +            | +  | +                              | +          | +         | +              | +            | +  | PA                             | +                | +          | +        | +              | +        | +    | +            | PA          | 4 | c |
| 2856      | Côte de mouton                 | Sheep meat             | +                           | +              | /        | /              | +            | +  | +                              | +          | +         | +              | +            | +  | PA                             | +                | +          | +        | +              | +        | +    | +            | PA          | 4 | c |
| 2861      | Côte de porc échine            | Pork meat              | -                           | -              | -        | +/-            | -            | -  | /                              | /          | /         | /              | -            | NA   | -                              | /                | /          | /        | /              | -        | -    | -            | NA          | 4 | c |
| 2862      | Côte de mouton                 | Sheep meat             | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -            | NA   | -                              | /                | /          | /        | /              | -        | -    | -            | NA          | 4 | c |
| 2872      | Tranche de gigot d'agneau      | Lamb meat              | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -            | NA   | -                              | /                | /          | /        | /              | -        | -    | -            | NA          | 4 | c |
| 101       | Tranche de gigot d'agneau      | Lamb meat              | -                           | -              | -        | -              | -            | -  | /                              | /          | /         | /              | -            | NA   | -                              | /                | /          | /        | /              | -        | -    | -            | NA          | 4 | c |
| 102       | Tranche de gigot d'agneau      | Lamb meat              | +                           | +              | -        | -              | +            | +  | +                              | +          | +         | +              | +            | +  | PA                             | +                | +          | +        | +              | +        | +    | +            | PA          | 4 | c |

READY TO EAT AND READY TO REHEAT DISHES, RAW MEAT (pork, chicken, ovine) (mTSB protocol)

| Sample N° | Product (French name)           | Product (English name) | Reference method ISO 16654* |                      |          |                | Alternative method: BAX® <i>E.coli</i> O157:H7 MP mTSB + novobiocin 18 h at 41,5°C |           |                                |            |           |                | Alternative method: BAX® <i>E.coli</i> O157:H7 MP Express mTSB + novobiocin 18 h at 41,5°C |                                |             |                  |            |          | Category | Type |                |              |             |   |   |
|-----------|---------------------------------|------------------------|-----------------------------|----------------------|----------|----------------|--|-----------|--------------------------------|------------|-----------|----------------|--|--------------------------------|-------------|------------------|------------|----------|----------|------|----------------|--------------|-------------|---|---|
|           |                                 |                        | IMS 6H                      |                      | IMS 24H  |                | Final result   | PCR Reult | Direct streaking onto CT- SMAC |            |           |                | PCR Reult  | Direct streaking onto CT- SMAC |             |                  |            |          |          |      |                |              |             |   |   |
|           |                                 |                        | CT- SMAC                    | CHROMagar O157       | CT- SMAC | CHROMagar O157 |  |           | Typical colonies               | Latex O157 | Late x H7 | Confir- mation |  | Final result                   | Agree- ment | Typical colonies | Latex O157 | Latex H7 |          |      | Confir- mation | Final result | Agree- ment |   |   |
| 103       | Côte de mouton                  | Sheep meat             | +                           | +                    | +        | -              | +  | +         | +                              | +          | +         | +              | +  | +                              | PA          | +                | +          | +        | +        | +    | +              | +            | PA          | 4 | c |
| 105       | Côte de porc                    | Pork meat              | -                           | +                    | -        | -              | -  | -         | /                              | /          | /         | /              | -  | NA                             | -           | /                | /          | /        | /        | -    | NA             | 4            | c           |   |   |
| 8065      | Filet poulet fermier            | Raw chicken meat       | +p                          | +M                   | /        | /              | +  | +         | +m                             | +          | +         | +              | +  | PA                             | +           | +m               | +          | +        | +        | +    | +              | PA           | 4           | c |   |
| 8066      | Filet poulet blanc              | Raw chicken meat       | +p                          | +M                   | /        | /              | +  | +         | +m                             | +          | +         | +              | +  | PA                             | +           | +m               | +          | +        | +        | +    | +              | PA           | 4           | c |   |
| 8067      | Filet aiguillettes poulet blanc | Raw chicken meat       | -                           | +md(latex -, indol-) | -        | -              | -  | -         | -                              | /          | /         | /              | -  | NA                             | -           | -                | /          | /        | /        | -    | NA             | 4            | c           |   |   |
| 8068      | Morceaux pilon poulet           | Raw chicken meat       | +p                          | +M                   | /        | /              | +  | +         | +p                             | +          | +         | +              | +  | PA                             | +           | +p               | +          | +        | +        | +    | +              | PA           | 4           | c |   |
| 8069      | Cote de porc à griller          | Raw pork meat          | +p                          | +M                   | /        | /              | +  | +         | +p                             | +          | +         | +              | +  | PA                             | +           | +p               | +          | +        | +        | +    | +              | PA           | 4           | c |   |
| 8070      | Sauté de porc                   | Raw pork meat          | +p                          | +M                   | /        | /              | +  | +         | +p                             | +          | +         | +              | +  | PA                             | +           | +p               | +          | +        | +        | +    | +              | PA           | 4           | c |   |
| 8071      | Jambon à escalope               | Raw pork meat          | +p                          | +M                   | /        | /              | +  | +         | +M                             | +          | +         | +              | +  | PA                             | +           | +M               | +          | +        | +        | +    | +              | PA           | 4           | c |   |
| 8193      | Côte de porc crue               | Raw pork meat          | st                          | st                   | st       | -              | -  | -         | -                              | /          | /         | /              | -  | NA                             | -           | -                | /          | /        | /        | -    | NA             | 4            | c           |   |   |

**Appendix 6 - Relative level of detection: raw data**

Matrix: Raw ground beef (MP)  
Strain : *E. coli* O157:H7 Ad552

Aerobic mesophilic flora : 1,6.10<sup>3</sup> CFU/g

| N° sample | Level | Contamination level- (cfu/sample) | Reference method: ISO 16654♦ |                |          |                |              | Number positive samples/ Total | Alternative method: BAX® System PCR Assay for <i>E. coli</i> O157:H7 MP |              |              |                               |   |              |              |                                |
|-----------|-------|-----------------------------------|------------------------------|----------------|----------|----------------|--------------|--------------------------------|---|--------------|--------------|-------------------------------|---|--------------|--------------|--------------------------------|
|           |       |                                   | IMS 6 h                      |                | IMS 24 h |                | Final result |                                | Protocol 8 h at 42°C±1°C Preheated MP media                             |              |              | Number positive samples/Total | Protocol 24 h at 42°C±1°C MP media Preheated MP media |              |              | Number positive samples/ Total |
|           |       |                                   | CT-SMAC                      | CHROMagar O157 | CT-SMAC  | CHROMagar O157 |              |                                | PCR Result  | Confirmation | Final result |                               | PCR Result  | Confirmation | Final result |                                |
|           |       |                                   |                              |                |          |                |              |                                |   |              |              |                               |   |              |              |                                |
| 8653      | 0     | 0                                 | -                            | -              | -        | +md/-          | -            | -                              | -   | -            | -            | -                             | -   | -            | 0/5          |                                |
| 8654      |       |                                   | -                            | -              | -        | +md/-          | -            | -                              | -   | -            | -            | -                             | -   | -            |              |                                |
| 8655      |       |                                   | -                            | -              | -        | +md/-          | -            | -                              | -   | -            | -            | -                             | -   | -            |              |                                |
| 8656      |       |                                   | -                            | -              | -        | -              | -            | -                              | -   | -            | -            | -                             | -   | -            |              |                                |
| 8657      |       |                                   | -                            | -              | -        | -              | -            | -                              | -   | -            | -            | -                             | -   | -            |              |                                |
| 8658      | Low   | 0,57                              | -                            | -              | -        | -              | -            | -                              | -   | -            | -            | -                             | -   | -            | 10/20        |                                |
| 8659      |       |                                   | -                            | -              | -        | -              | -            | -                              | -   | -            | -            | -                             | -   | -            |              |                                |
| 8660      |       |                                   | -                            | -              | +d/-     | -              | -            | -                              | +   | +            | +            | +                             | +   | +            |              |                                |
| 8661      |       |                                   | +M                           | +1/2           | /        | /              | +            | +                              | +   | +            | +            | +                             | +   | +            |              |                                |
| 8662      |       |                                   | +p                           | +1/2           | /        | /              | +            | -                              | -   | -            | -            | -                             | -   | -            |              |                                |
| 8663      |       |                                   | +p                           | +M             | /        | /              | +            | +                              | +   | +            | +            | +                             | +   | +            |              |                                |
| 8664      |       |                                   | -                            | -              | -        | +d/-           | -            | -                              | -   | -            | -            | -                             | -   | -            |              |                                |
| 8665      |       |                                   | -                            | -              | -        | -              | -            | +                              | +   | +            | +            | +                             | +   | +            |              |                                |
| 8666      |       |                                   | -                            | -              | -        | +d/-           | -            | -                              | -   | -            | -            | -                             | -   | -            |              |                                |
| 8667      |       |                                   | +M                           | +1/2           | /        | /              | +            | -                              | -   | -            | -            | -                             | -   | -            |              |                                |
| 8668      |       |                                   | +M                           | +1/2           | /        | /              | +            | +                              | +   | +            | +            | +                             | +   | +            |              |                                |
| 8669      |       |                                   | -                            | -              | -        | -              | -            | +                              | +   | +            | +            | +                             | +   | +            |              |                                |
| 8670      |       |                                   | +M                           | +m             | /        | /              | +            | +                              | +   | +            | +            | +                             | +   | +            |              |                                |
| 8671      |       |                                   | +M                           | +m             | /        | /              | +            | -                              | -   | -            | -            | -                             | -   | -            |              |                                |
| 8672      |       |                                   | +M                           | +1/2           | /        | /              | +            | +                              | +   | +            | +            | +                             | +   | +            |              |                                |
| 8673      |       |                                   | -                            | -              | -        | +d/-           | -            | -                              | -   | -            | -            | -                             | -   | -            |              |                                |
| 8674      |       |                                   | -                            | -              | -        | -              | -            | -                              | -   | -            | -            | -                             | -   | -            |              |                                |
| 8675      |       |                                   | +M                           | -              | +d/-     | +5             | +            | -                              | -   | -            | -            | -                             | -   | -            |              |                                |
| 8676      | -     | -                                 | -                            | -              | -        | -              | -            | -                              | -   | -            | -            | -                             |   |              |              |                                |
| 8677      | +m    | +m                                | /                            | /              | +        | -              | -            | -                              | -   | -            | -            | -                             |   |              |              |                                |
| 8678      | High  | 5,7                               | +M                           | +1/2           | /        | /              | +            | +                              | +   | +            | +            | +                             | +   | +            | 5/5          |                                |
| 8679      |       |                                   | +M                           | +1/2           | /        | /              | +            | +                              | +   | +            | +            | +                             | +   |              |              |                                |
| 8680      |       |                                   | +M                           | +1/2           | /        | /              | +            | +                              | +   | +            | +            | +                             | +   |              |              |                                |
| 8681      |       |                                   | +M                           | +1/2           | /        | /              | +            | +                              | +   | +            | +            | +                             | +   |              |              |                                |
| 8682      |       |                                   | +M                           | +1/2           | /        | /              | +            | +                              | +   | +            | +            | +                             | +   |              |              |                                |

♦ Analyses performed according to the COFRAC accreditation

Matrix : Raw ground beef (MPE)  
 Strain : *E. coli* O157:H7 Ad485 (2008)  
 Aerobic mesophilic flora : 1,5.104 CFU/g

| N° sample | Level | Contamination level- (cfu/sample) | Reference method: ISO 16654 ♦ |                |          |                |              | Number positive samples/Total | Alternative method: BAX® System PCR Assay for <i>E. coli</i> O157:H7 MP |              |              |                               |  |              |              |                               |
|-----------|-------|-----------------------------------|-------------------------------|----------------|----------|----------------|--------------|-------------------------------|---|--------------|--------------|-------------------------------|--|--------------|--------------|-------------------------------|
|           |       |                                   | IMS 6 h                       |                | IMS 24 h |                | Final result |                               | Protocol 8 h at 42°C±1°C Preheated MP media                             |              |              | Number positive samples/Total | Protocol 24 h at 42°C±1°C Preheated MP media |              |              | Number positive samples/Total |
|           |       |                                   | CT-SMAC                       | CHROMagar O157 | CT-SMAC  | CHROMagar O157 |              |                               | PCR MPE   | Confirmation | Final result |                               | PCR MPE                                      | Confirmation | Final result |                               |
|           |       |                                   |                               |                |          |                |              |                               |   |              |              |                               |  |              |              |                               |
| 2588      | 0     | /                                 | -                             | -              | -        | -              | -            | -                             | /   | -            | 0/6          | -                             | /  | -            | 0/6          |                               |
| 2589      |       |                                   | -                             | -              | -        | -              | -            | /                             | -   |              |              |                               |  |              |              |                               |
| 2590      |       |                                   | -                             | -              | d        | d              | -            | /                             | -   |              |              |                               |  |              |              |                               |
| 2591      |       |                                   | -                             | -              | d        | d              | -            | /                             | -   |              |              |                               |  |              |              |                               |
| 2592      |       |                                   | -                             | -              | -        | -              | -            | /                             | -   |              |              |                               |  |              |              |                               |
| 2593      |       |                                   | d                             | -              | d        | -              | -            | /                             | -   |              |              |                               |  |              |              |                               |
| 2594      | 1     | 0.25                              | -                             | -              | -        | d              | -            | /                             | -   | 0/6          | -            | /                             | -  | 0/6          |              |                               |
| 2595      |       |                                   | -                             | -              | -        | +              | -            | /                             | -   |              |              |                               |  |              |              |                               |
| 2596      |       |                                   | -                             | -              | d        | d              | -            | /                             | -   |              | -/+          | /                             | -  |              |              |                               |
| 2597      |       |                                   | -                             | -              | d        | d              | -            | /                             | -   |              | -            | /                             | -  |              |              |                               |
| 2598      |       |                                   | +                             | +              | /        | /              | +            | /                             | -   |              | +            | /                             | +  |              |              |                               |
| 2599      |       |                                   | +                             | +              | /        | /              | +            | /                             | -   |              | +            | /                             | +  |              |              |                               |
| 2600      | 2     | 0.5                               | -                             | -              | -        | -              | -            | /                             | -   | 3/6          | -            | +                             | -  | 2/6          |              |                               |
| 2601      |       |                                   | +                             | +              | /        | /              | +            | /                             | +   |              | +            | +                             | +  |              |              |                               |
| 2602      |       |                                   | +                             | +              | /        | /              | +            | /                             | +   |              | +            | +                             | +  |              |              |                               |
| 2603      |       |                                   | -                             | -              | -        | -              | -            | /                             | -   |              | -/+          | +                             | -  |              |              |                               |
| 2604      |       |                                   | +                             | +              | /        | /              | +            | /                             | -   |              | +            | /                             | +  |              |              |                               |
| 2605      |       |                                   | +                             | +              | /        | /              | +            | /                             | -   |              | +            | /                             | +  |              |              |                               |
| 2606      | 3     | 1                                 | +                             | +              | /        | /              | +            | /                             | +   | +            | +            | 2/6                           | +  | +            | +            | 3/6                           |
| 2607      |       |                                   | d                             | +              | d        | -              | -            | /                             | -   | -            | /            |                               | -  |              |              |                               |
| 2608      |       |                                   | +                             | +              | /        | /              | +            | /                             | -   | +            | -/+ims1      |                               | +  |              |              |                               |
| 2609      |       |                                   | +                             | +              | /        | /              | +            | /                             | -   | +            | /            |                               | +  |              |              |                               |
| 2610      |       |                                   | +                             | +              | /        | /              | +            | /                             | +   | +            | +            |                               | +  |              |              |                               |
| 2611      |       |                                   | -                             | -              | -        | -              | -            | /                             | -   | -            | /            |                               | -  |              |              |                               |
| 2612      | 4     | 2.5                               | +                             | +              | /        | /              | +            | /                             | +   | +            | +            | 6/6                           | +  | +            | +            | 6/6                           |
| 2613      |       |                                   | +                             | +              | /        | /              | +            | /                             | +   | +            | +            |                               | +  |              |              |                               |
| 2614      |       |                                   | +                             | +              | /        | /              | +            | /                             | +   | +            | +            |                               | +  |              |              |                               |
| 2615      |       |                                   | +                             | +              | /        | /              | +            | /                             | +   | +            | +            |                               | +  |              |              |                               |
| 2616      |       |                                   | +                             | +              | /        | /              | +            | /                             | +   | +            | +            |                               | +  |              |              |                               |
| 2617      |       |                                   | +                             | +              | /        | /              | +            | /                             | +   | +            | +            |                               | +  |              |              |                               |

♦ Analyses performed according to the COFRAC accreditation  
 ADRIA Développement  
 Summary report (Version 0)  
 BAX® *E. coli* O157 :H7 MP (QUA 18/04 - 03/08)

Raw milk  
**E. coli O157:H7 R33-9**  
 Aerobic mesophilic flora: 4,7.10<sup>4</sup>/g

| Sample N° | Level | Contamination level- (cfu/sample) | Reference method: ISO 16654* |                |         |                |        | Alternative method: BAX® System PCR Assay for E. coli O157:H7 MP |     |            |                  |            |          |                   |                    |   |
|-----------|-------|-----------------------------------|------------------------------|----------------|---------|----------------|--------|--|-----|------------|------------------|------------|----------|-------------------|--------------------|---|
|           |       |                                   | Typical colonies             |                |         |                | Result | Positive/Total   | PCR |            | Confirmations    |            |          | Positive/Total MP | Positive/Total MPE |   |
|           |       |                                   | IMS 6H                       |                | IMS 24H |                |        |  | MP  | MP Express | CT SMAC          |            |          |                   |                    |   |
|           |       |                                   | CT SMAC                      | CHROMagar O157 | CT SMAC | CHROMagar O157 |        |  |     |            | Typical colonies | Latex O157 | Latex H7 |                   |                    |   |
| 2534      | 0     | /                                 | -                            | +/-            | -       | -              | -      | 0/6  | -   | -          | /                | /          | /        | 0/6               | 0/6                |   |
| 2535      |       |                                   | -                            | -              | -       | -              | -      | -  | -   | -          | /                | /          | /        |                   |                    |   |
| 2536      |       |                                   | -                            | -              | -       | -              | -      | -  | -   | -          | -                | /          | /        |                   |                    | / |
| 2537      |       |                                   | -                            | +/-            | -       | -              | -      | -  | -   | -          | -                | /          | /        |                   |                    | / |
| 2538      |       |                                   | -                            | +/-            | +/-     | -              | -      | -  | -   | -          | -                | /          | /        |                   |                    | / |
| 2539      |       |                                   | -                            | -              | -       | -              | -      | -  | -   | -          | -                | /          | /        |                   |                    | / |
| 2873      | 1     | 0,65                              | +                            | +              | /       | /              | +      | 2/6  | +   | +          | +                | +          | +        | 2/6               | 2/6                |   |
| 2874      |       |                                   | -                            | -              | -       | -              | -      | -  | -   | -          | /                | /          | /        |                   |                    |   |
| 2875      |       |                                   | +                            | +              | /       | /              | +      | +  | +   | +          | +                | +          | +        |                   |                    |   |
| 2876      |       |                                   | -                            | -              | -       | -              | -      | -  | -   | -          | -                | /          | /        |                   |                    | / |
| 2877      |       |                                   | -                            | -              | -       | -              | -      | -  | -   | -          | -                | /          | /        |                   |                    | / |
| 2878      |       |                                   | -                            | -              | -       | -              | -      | -  | -   | -          | -                | /          | /        |                   |                    | / |
| 2540      | 2     | 0,8                               | +                            | +              | /       | /              | +      | 5/6  | +   | +          | +                | +          | +        | 5/6               | 5/6                |   |
| 2541      |       |                                   | -                            | -              | +/-     | -              | -      | -  | -   | -          | /                | /          | /        |                   |                    |   |
| 2542      |       |                                   | +                            | +              | /       | /              | +      | +  | +   | +          | +                | +          | +        |                   |                    |   |
| 2543      |       |                                   | +                            | +              | /       | /              | +      | +  | +   | +          | +                | +          | +        |                   |                    |   |
| 2544      |       |                                   | +                            | +              | /       | /              | +      | +  | +   | +          | +                | +          | +        |                   |                    |   |
| 2545      |       |                                   | +                            | +              | /       | /              | +      | +  | +   | +          | +                | +          | +        |                   |                    |   |
| 2546      | 3     | 1,6                               | +                            | +              | /       | /              | +      | 5/6  | +   | +          | +                | +          | +        | 5/6               | 5/6                |   |
| 2547      |       |                                   | +                            | +              | /       | /              | +      | +  | +   | +          | +                | +          | +        |                   |                    |   |
| 2548      |       |                                   | +                            | +              | /       | /              | +      | +  | +   | +          | +                | +          | +        |                   |                    |   |
| 2549      |       |                                   | -                            | -              | +/-     | +/-            | -      | -  | -   | -          | -                | /          | /        |                   |                    | / |
| 2550      |       |                                   | +                            | +              | /       | /              | +      | +  | +   | +          | +                | +          | +        |                   |                    |   |
| 2551      |       |                                   | +                            | +              | /       | /              | +      | +  | +   | +          | +                | +          | +        |                   |                    |   |
| 2552      | 4     | 3,2                               | -                            | -              | +/-     | +/-            | -      | 4/6  | -   | -          | /                | /          | /        | 4/6               | 4/6                |   |
| 2553      |       |                                   | +                            | +              | /       | /              | +      | +  | +   | +          | +                | +          | +        |                   |                    |   |
| 2554      |       |                                   | +                            | +              | /       | /              | +      | +  | +   | +          | +                | +          | +        |                   |                    |   |
| 2555      |       |                                   | +                            | +              | /       | /              | +      | +  | +   | +          | +                | +          | +        |                   |                    |   |
| 2556      |       |                                   | -                            | +/-            | -       | -              | -      | -  | -   | -          | -                | /          | /        |                   |                    | / |
| 2557      |       |                                   | +                            | +              | /       | /              | +      | +  | +   | +          | +                | +/-        | +        |                   |                    | + |
| 2558      | 5     | 8                                 | +                            | +              | /       | /              | +      | 6/6  | +   | +          | +                | +          | +        | 6/6               | 6/6                |   |
| 2559      |       |                                   | +                            | +              | /       | /              | +      | +  | +   | +          | +                | +          | +        |                   |                    |   |
| 2560      |       |                                   | +                            | +              | /       | /              | +      | +  | +   | +          | +                | +          | +        |                   |                    |   |
| 2561      |       |                                   | +                            | +              | /       | /              | +      | +  | +   | +          | +                | +          | +        |                   |                    |   |
| 2562      |       |                                   | +                            | +              | /       | /              | +      | +  | +   | +          | +                | +          | +        |                   |                    |   |
| 2563      |       |                                   | +                            | +              | /       | /              | +      | +  | +   | +          | +                | +          | +        |                   |                    |   |

\* Analyses performed according to the COFRAC accreditation

**Cider**  
**E. coli O157:H7 LS56**  
 Aerobic mesophilic flora:4,0.10<sup>2</sup>/g

| Sample N° | Level | Contamination level- (cfu/sample) | Reference method: ISO 16654* |                |         |                |        | Alternative method: BAX® System PCR Assay for E. coli O157:H7 MP |     |            |                  |            | Positive/Total MP | Positive/Total MPE |          |
|-----------|-------|-----------------------------------|------------------------------|----------------|---------|----------------|--------|--|-----|------------|------------------|------------|-------------------|--------------------|----------|
|           |       |                                   | Typical colonies             |                |         |                | Result | Positive/Total   | PCR |            | Confirmations    |            |                   |                    |          |
|           |       |                                   | IMS 6H                       |                | IMS 24H |                |        |  | MP  | MP Express | CT SMAC          |            |                   |                    |          |
|           |       |                                   | CT SMAC                      | CHROMagar O157 | CT SMAC | CHROMagar O157 |        |  |     |            | Typical colonies | Latex O157 |                   |                    | Latex H7 |
| 2489      | 0     | /                                 | -                            | -              | -       | -              | -      | -  | -   | /          | /                | /          | 0/6               | 0/6                |          |
| 2490      |       |                                   | -                            | -              | -       | -              | -      | -  | -   | /          | /                | /          |                   |                    |          |
| 2491      |       |                                   | -                            | -              | -       | -              | -      | -  | -   | /          | /                | /          |                   |                    |          |
| 2492      |       |                                   | -                            | -              | -       | -              | -      | -  | -   | /          | /                | /          |                   |                    |          |
| 2493      |       |                                   | -                            | -              | -       | -              | -      | -  | -   | /          | /                | /          |                   |                    |          |
| 2494      |       |                                   | -                            | -              | -       | -              | -      | -  | -   | /          | /                | /          |                   |                    |          |
| 2495      | 1     | 0,55                              | -                            | -              | -       | -              | -      | -  | -   | /          | /                | /          | 3/6               | 3/6                |          |
| 2496      |       |                                   | +                            | +              | /       | /              | +      | +  | +   | +          | +                | +          |                   |                    |          |
| 2497      |       |                                   | -                            | -              | -       | -              | -      | -  | -   | /          | /                | /          |                   |                    |          |
| 2498      |       |                                   | -                            | -              | -       | -              | -      | -  | -   | /          | /                | /          |                   |                    |          |
| 2499      |       |                                   | +                            | +              | /       | /              | +      | +  | +   | +          | +                | +          |                   |                    |          |
| 2500      | +     | +                                 | /                            | /              | +       | +              | +      | +  | +   | +          |                  |            |                   |                    |          |
| 2501      | 2     | 1,1                               | -                            | -              | -       | -              | -      | -  | -   | /          | /                | /          | 2/6               | 2/6                |          |
| 2502      |       |                                   | -                            | -              | -       | -              | -      | -  | -   | /          | /                | /          |                   |                    |          |
| 2503      |       |                                   | +                            | +              | /       | /              | +      | +  | +   | +          | +                | +          |                   |                    |          |
| 2504      |       |                                   | -                            | -              | -       | -              | -      | -  | -   | /          | /                | /          |                   |                    |          |
| 2505      |       |                                   | +                            | +              | /       | /              | +      | +  | +   | +          | +                | +          |                   |                    |          |
| 2506      | -     | -                                 | -                            | -              | -       | -              | -      | -  | /   | /          | /                |            |                   |                    |          |
| 2507      | 3     | 2,2                               | +                            | +              | /       | /              | +      | +  | +   | +          | +                | +          | 6/6               | 6/6                |          |
| 2508      |       |                                   | +                            | +              | /       | /              | +      | +  | +   | +          | +                | +          |                   |                    |          |
| 2509      |       |                                   | +                            | +              | /       | /              | +      | +  | +   | +          | +                | +          |                   |                    |          |
| 2510      |       |                                   | +                            | +              | /       | /              | +      | +  | +   | +          | +                | +          |                   |                    |          |
| 2511      |       |                                   | +                            | +              | /       | /              | +      | +  | +   | +          | +                | +          |                   |                    |          |
| 2512      |       |                                   | +                            | +              | /       | /              | +      | +  | +   | +          | +                | +          |                   |                    |          |
| 2513      | 4     | 5,5                               | +                            | +              | /       | /              | +      | +  | +   | +          | +                | 6/6        | 6/6               |                    |          |
| 2514      |       |                                   | +                            | +              | /       | /              | +      | +  | +   | +          | +                |            |                   | +                  |          |
| 2515      |       |                                   | +                            | +              | /       | /              | +      | +  | +   | +          | +                |            |                   | +                  |          |
| 2516      |       |                                   | +                            | +              | /       | /              | +      | +  | +   | +          | +                |            |                   | +                  |          |
| 2517      |       |                                   | +                            | +              | /       | /              | +      | +  | +   | +          | +                |            |                   | +                  |          |
| 2518      |       |                                   | +                            | +              | /       | /              | +      | +  | +   | +          | +                |            |                   | +                  |          |

\* Analyses performed according to the COFRAC accreditation

**Deli salad (Piémontaise)**  
**E. coli O157:H7 ENV177**  
 Aerobic mesophilic flora: 6,4.10<sup>4</sup>/g

| Sample N° | Level | Contamination level- (cfu/sample) | Reference method: ISO 16654 ♦ |                |         |                |        | Alternative method: BAX® System PCR Assay for E. coli O157:H7 MP |     |            |                  |            |          |        |                   |                    |
|-----------|-------|-----------------------------------|-------------------------------|----------------|---------|----------------|--------|--|-----|------------|------------------|------------|----------|--------|-------------------|--------------------|
|           |       |                                   | Typical colonies              |                |         |                | Result | Positive/Total   | PCR |            | Confirmations    |            |          | Result | Positive/Total MP | Positive/Total MPE |
|           |       |                                   | IMS 6H                        |                | IMS 24H |                |        |  | MP  | MP Express | CT SMAC          |            |          |        |                   |                    |
|           |       |                                   | CT SMAC                       | CHROMagar O157 | CT SMAC | CHROMagar O157 |        |  |     |            | Typical colonies | Latex O157 | Latex H7 |        |                   |                    |
| 2311      | 0     | /                                 | -                             | -              | -       | -              | -      | -  | -   | /          | /                | /          | -        | 0/6    | 0/6               |                    |
| 2312      |       |                                   | -                             | -              | -       | -              | -      | -  | -   | /          | /                | /          | -        |        |                   |                    |
| 2313      |       |                                   | -                             | -              | -       | -              | -      | -  | -   | /          | /                | /          | -        |        |                   |                    |
| 2314      |       |                                   | -                             | -              | -       | -              | -      | -  | -   | /          | /                | /          | -        |        |                   |                    |
| 2315      |       |                                   | -                             | -              | -       | -              | -      | -  | -   | /          | /                | /          | -        |        |                   |                    |
| 2316      |       |                                   | -                             | -              | -       | -              | -      | -  | -   | /          | /                | /          | -        |        |                   |                    |
| 2317      | 1     | 0,65                              | +                             | +              | /       | /              | +      | +  | +   | +          | +                | +          | 2/6      | 2/6    |                   |                    |
| 2318      |       |                                   | -                             | -              | -       | -              | -      | -  | -   | /          | /                | /          |          |        | -                 |                    |
| 2319      |       |                                   | -                             | -              | -       | -              | -      | -  | -   | /          | /                | /          |          |        | -                 |                    |
| 2320      |       |                                   | -                             | -              | -       | -              | -      | -  | -   | /          | /                | /          |          |        | -                 |                    |
| 2321      |       |                                   | -                             | -              | -       | -              | -      | -  | -   | /          | /                | /          |          |        | -                 |                    |
| 2322      |       |                                   | +                             | +              | /       | /              | +      | +  | +   | +          | +                | +          |          |        | +                 |                    |
| 2323      | 2     | 1,3                               | -                             | -              | -       | -              | -      | -  | -   | /          | /                | /          | -        | 4/6    | 4/6               |                    |
| 2324      |       |                                   | +                             | +              | /       | /              | +      | +  | +   | +          | +                | +          |          |        |                   |                    |
| 2325      |       |                                   | +                             | +              | /       | /              | +      | +  | +   | +          | +                | +          |          |        |                   |                    |
| 2326      |       |                                   | -                             | -              | -       | -              | -      | -  | -   | /          | /                | /          | -        |        |                   |                    |
| 2327      |       |                                   | +                             | +              | /       | /              | +      | +  | +   | +          | +                | +          |          |        |                   |                    |
| 2328      |       |                                   | +                             | +              | /       | /              | +      | +  | +   | +          | +                | +          |          |        |                   |                    |
| 2329      | 3     | 2,6                               | +                             | +              | /       | /              | +      | +  | +   | +          | +                | +          | 6/6      | 6/6    |                   |                    |
| 2330      |       |                                   | +                             | +              | /       | /              | +      | +  | +   | +          | +                | +          |          |        |                   |                    |
| 2331      |       |                                   | +                             | +              | /       | /              | +      | +  | +   | +          | +                | +          |          |        |                   |                    |
| 2332      |       |                                   | +                             | +              | /       | /              | +      | +  | +   | +          | +                | +          |          |        |                   |                    |
| 2333      |       |                                   | +                             | +              | /       | /              | +      | +  | +   | +          | +                | +          |          |        |                   |                    |
| 2334      |       |                                   | +                             | +              | /       | /              | +      | +  | +   | +          | +                | +          |          |        |                   |                    |
| 2335      | 4     | 6,5                               | +                             | +              | /       | /              | +      | +  | +   | +          | +                | +          | 6/6      | 6/6    |                   |                    |
| 2336      |       |                                   | +                             | +              | /       | /              | +      | +  | +   | +          | +                | +          |          |        |                   |                    |
| 2337      |       |                                   | +                             | +              | /       | /              | +      | +  | +   | +          | +                | +          |          |        |                   |                    |
| 2338      |       |                                   | +                             | +              | /       | /              | +      | +  | +   | +          | +                | +          |          |        |                   |                    |
| 2339      |       |                                   | +                             | +              | /       | /              | +      | +  | +   | +          | +                | +          |          |        |                   |                    |
| 2340      |       |                                   | +                             | +              | /       | /              | +      | +  | +   | +          | +                | +          |          |        |                   |                    |

♦ Analyses performed according to the COFRAC accreditation

## Appendix 7 – Inclusivity and exclusivity study: raw data

| POSITIVE STRAINS |                         |          |                           |                      |                               |                 |               |              |   |
|------------------|-------------------------|----------|---------------------------|----------------------|-------------------------------|-----------------|---------------|--------------|---|
| Strain           |                         | Serotype | Reference                 | Origin               | Inoculation rate<br>CFU/225ml | PCR result      |               | Confirmation |   |
|                  |                         |          |                           |                      |                               | MP              | MPE           | CT SMAC      |   |
|                  |                         |          |                           |                      |                               | Aspect colonies | Latex O157:H7 |              |   |
| 1.               | <i>Escherichia coli</i> | O157:H7  | B177                      | Environmental sample | 39                            | +               | +             | colourless   | + |
| 2.               | <i>Escherichia coli</i> | O157:H7  | BV2                       | Environmental sample | 58                            | +               | +             | colourless   | + |
| 3.               | <i>Escherichia coli</i> | O157:H7  | BR3                       | Environmental sample | 26                            | +               | +             | colourless   | + |
| 4.               | <i>Escherichia coli</i> | O157:H7  | BD4                       | Environmental sample | 41                            | +               | +             | colourless   | + |
| 5.               | <i>Escherichia coli</i> | O157:H7  | ENV177                    | STEP                 | 31                            | +               | +             | colourless   | + |
| 6.               | <i>Escherichia coli</i> | O157:H7  | ET8                       | STEP                 | 39                            | +               | +             | colourless   | + |
| 7.               | <i>Escherichia coli</i> | O157:H7  | EK9                       | STEP                 | 35                            | +               | +             | colourless   | + |
| 8.               | <i>Escherichia coli</i> | O157:H7  | 435                       | Ground beef          | 36                            | +               | +             | colourless   | + |
| 9.               | <i>Escherichia coli</i> | O157:H7  | 670T                      | Ground beef          | 35                            | +               | +             | colourless   | + |
| 10.              | <i>Escherichia coli</i> | O157:H7  | 730T                      | Ground beef          | 39                            | +               | +             | colourless   | + |
| 11.              | <i>Escherichia coli</i> | O157:H7  | 226T                      | Ground beef          | 31                            | +               | +             | colourless   | + |
| 12.              | <i>Escherichia coli</i> | O157:H7  | 42197-1                   | Ground beef          | 96                            | +               | +             | colourless   | + |
| 13.              | <i>Escherichia coli</i> | O157:H7  | A3612                     | Ground beef          | 36                            | +               | +             | colourless   | + |
| 14.              | <i>Escherichia coli</i> | O157:H7  | A4513                     | Ground beef          | 48                            | +               | +             | colourless   | + |
| 15.              | <i>Escherichia coli</i> | O157:H7  | A1075                     | Ground beef          | 23                            | +               | +             | colourless   | + |
| 16.              | <i>Escherichia coli</i> | O157:H7  | B68                       | Environmental sample | 50                            | +               | +             | colourless   | + |
| 17.              | <i>Escherichia coli</i> | O157:H7  | AT40                      | Environmental sample | 41                            | +               | +             | colourless   | + |
| 18.              | <i>Escherichia coli</i> | O157:H7  | AV36                      | Environmental sample | 43                            | +               | +             | colourless   | + |
| 19.              | <i>Escherichia coli</i> | O157:H7  | AR15                      | Environmental sample | 28                            | +               | +             | colourless   | + |
| 20.              | <i>Escherichia coli</i> | O157:H7  | LS3                       | Feces                | 43                            | +               | +             | colourless   | + |
| 21.              | <i>Escherichia coli</i> | O157:H7  | AMVT6                     | Feces                | 85                            | +               | +             | colourless   | + |
| 22.              | <i>Escherichia coli</i> | O157:H7  | ATKP8                     | Feces                | 97                            | +               | +             | colourless   | + |
| 23.              | <i>Escherichia coli</i> | O157:H7  | AZRS15                    | Feces                | 86                            | +               | +             | colourless   | + |
| 24.              | <i>Escherichia coli</i> | O157:H7  | R33-9                     | Bovine feces         | 102                           | +               | +             | colourless   | + |
| 25.              | <i>Escherichia coli</i> | O157:H7  | AZ15-6                    | Bovine feces         | 56                            | +               | +             | colourless   | + |
| 26.              | <i>Escherichia coli</i> | O157:H7  | AQ29-4                    | Bovine feces         | 82                            | +               | +             | colourless   | + |
| 27.              | <i>Escherichia coli</i> | O157:H7  | AA18-3                    | Bovine feces         | 80                            | +               | +             | colourless   | + |
| 28.              | <i>Escherichia coli</i> | O157:H7  | LS56                      | Selles               | 92                            | +               | +             | colourless   | + |
| 29.              | <i>Escherichia coli</i> | O157:H7  | A425TK                    | Feces                | 119                           | +               | +             | colourless   | + |
| 30.              | <i>Escherichia coli</i> | O157:H7  | A206RP                    | Feces                | 125                           | +               | +             | colourless   | + |
| 31.              | <i>Escherichia coli</i> | O157:H7  | A778EF                    | Feces                | 97                            | +               | +             | colourless   | + |
| 32.              | <i>Escherichia coli</i> | O157:H7  | MK41242                   | Ground beef          | 95                            | +               | +             | colourless   | + |
| 33.              | <i>Escherichia coli</i> | O157:H7  | AMK2608                   | Ground beef          | 51                            | +               | +             | colourless   | + |
| 34.              | <i>Escherichia coli</i> | O157:H7  | AMK1506                   | Ground beef          | 86                            | +               | +             | colourless   | + |
| 35.              | <i>Escherichia coli</i> | O157:H7  | AMK1311                   | Ground beef          | 100                           | +               | +             | colourless   | + |
| 36.              | <i>Escherichia coli</i> | O157:H7  | 37006ID                   | Ground beef          | 91                            | +               | +             | colourless   | + |
| 37.              | <i>Escherichia coli</i> | O157:H7  | A1518ID                   | Ground beef          | 104                           | +               | +             | colourless   | + |
| 38.              | <i>Escherichia coli</i> | O157:H7  | A1512ID                   | Ground beef          | 96                            | +               | +             | colourless   | + |
| 39.              | <i>Escherichia coli</i> | O157:H7  | A1814ID                   | Ground beef          | 79                            | +               | +             | colourless   | + |
| 40.              | <i>Escherichia coli</i> | O157:H7  | A1989ID                   | Ground beef          | 77                            | +               | +             | colourless   | + |
| 41.              | <i>Escherichia coli</i> | O157:H7  | EF190                     | Feces                | 83                            | +               | +             | colourless   | + |
| 42.              | <i>Escherichia coli</i> | O157:H7  | Ad686                     | Environmental sample | 5                             | +               | +             | colourless   | + |
| 43.              | <i>Escherichia coli</i> | O157:H7  | CIP103571<br>(ATCC 35150) | Clinic               | 74                            | +               | +             | colourless   | + |
| 44.              | <i>Escherichia coli</i> | O157:H7  | ATCC 43888                |                      | 68                            | +               | +             | colourless   | + |
| 45.              | <i>Escherichia coli</i> | O157:H7  | Ad485                     | Ground beef          | 78                            | +               | +             | colourless   | + |
| 46.              | <i>Escherichia coli</i> | O157:H7  | Ad486                     | Ground beef          | 92                            | +               | +             | colourless   | + |
| 47.              | <i>Escherichia coli</i> | O157:H7  | Ad487                     | Ground beef          | 43                            | +               | +             | colourless   | + |
| 48.              | <i>Escherichia coli</i> | O157:H7  | Ad488                     | Ground beef          | 66                            | +               | +             | colourless   | + |
| 49.              | <i>Escherichia coli</i> | O157:H7  | Ad489                     | Ground beef          | 72                            | +               | +             | colourless   | + |
| 50.              | <i>Escherichia coli</i> | O157:H7  | ATCC 700728               |                      | 109                           | +               | +             | colourless   | + |

| NEGATIVE STRAINS |                             |             |           |                               |                     |               |                                |                  |       |
|------------------|-----------------------------|-------------|-----------|-------------------------------|---------------------|---------------|--------------------------------|------------------|-------|
| Strain           | Serotype                    | Reference   | Origin    | Inoculation rate<br>CFU/225ml | PCR Result          |               | Confirmations                  |                  |       |
|                  |                             |             |           |                               | MP<br>MP media      | MPE           | CT SMAC                        |                  |       |
|                  |                             |             |           |                               |                     |               | Aspect colonies<br>(in French) | Latex<br>O157:H7 |       |
| 1.               | <i>Escherichia coli</i>     | O92:H33     | JM221     | Clinical isolate (Mexco)      | 5,7.10 <sup>5</sup> | -             | -                              | growth -         | /     |
| 2.               | <i>Escherichia coli</i>     | O3:H2       | 38765     | Clinical isolate Chile        | 5,0.10 <sup>5</sup> | -             | -                              | growth -         | /     |
| 3.               | <i>Escherichia coli</i>     | O78:H11     | H10407    | ATCC 35401                    | 4,9.10 <sup>5</sup> | -             | -                              | pink             | /     |
| 4.               | <i>Escherichia coli</i>     | O6:H6       | EDL1493   |                               | 3,6.10 <sup>5</sup> | -             | -                              | pink             | /     |
| 5.               | <i>Escherichia coli</i>     | O6:H10      | ECOR10    | Clinical isolate Sweden       | 7,6.10 <sup>5</sup> | -             | -                              | weak pink growth | /     |
| 6.               | <i>Escherichia coli</i>     | O111:H21    | DEC6a     | Clinical isolate USA          | 2,5.10 <sup>5</sup> | -             | -                              | growth -         | /     |
| 7.               | <i>Escherichia coli</i>     | O86:H43     | ECOR23    | Animal (elephant USA)         | 3,7.10 <sup>5</sup> | -             | -                              | weak pink growth | /     |
| 8.               | <i>Escherichia coli</i>     | O26:H11     | DEC9a     | Clinical isolate USA          | 3,9.10 <sup>5</sup> | -             | -                              | growth -         | /     |
| 9.               | <i>Escherichia coli</i>     | O111:H8     | DEC8b     | Clinical isolate USA          | 4,9.10 <sup>5</sup> | -             | -                              | pink             | /     |
| 10.              | <i>Escherichia coli</i>     | O128:H2     | DEC11a    | Clinical isolate USA          | 8,0.10 <sup>5</sup> | -             | -                              | pink             | /     |
| 11.              | <i>Escherichia coli</i>     | O111:H2     | DEC12a    | Clinical isolate USA          | 5,7.10 <sup>5</sup> | -             | -                              | growth -         | /     |
| 12.              | <i>Escherichia coli</i>     | O128:H7     | DEC13a    | Clinical isolate USA          | 3,9.10 <sup>5</sup> | -             | -                              | growth -         | /     |
| 13.              | <i>Escherichia coli</i>     | O78:K80:H12 | TX-1      | ATCC 43896                    | 4,1.10 <sup>5</sup> | -             | -                              | weak pink growth | /     |
| 14.              | <i>Escherichia coli</i>     | O104:H21    | ECOR26    | Clinical isolate USA          | 7,0.10 <sup>5</sup> | -             | -                              | weak pink growth | /     |
| 15.              | <i>Escherichia coli</i>     | O157:H43    | DEC7a     | Animal (pork USA)             | 4,0.10 <sup>5</sup> | -             | -                              | weak pink growth | /     |
| 16.              | <i>Escherichia coli</i>     | O55:H7      | DEC5d     | Human Sri Lanka               | 4,2.10 <sup>5</sup> | +(MP broth)   | +(MP broth)                    | pink             | /     |
|                  |                             |             |           |                               | 63                  | +(mTSB +novo) | +(mTSB +novo)                  | pink             | /     |
| 17.              | <i>Escherichia coli</i>     | O44:H18     | 42        | Clinical isolate Peru         | 7,6.10 <sup>5</sup> | -             | -                              | pink             | /     |
| 18.              | <i>Escherichia coli</i>     | O127:H6     | E2348/69  | Clinical isolate UK           | 8,5.10 <sup>5</sup> | -             | -                              | incolore         | O157- |
| 19.              | <i>Escherichia coli</i>     | O55:H6      | DEC1a     | Clinical isolate USA          | 4,5.10 <sup>5</sup> | -             | -                              | incolore         | O157- |
| 20.              | <i>Escherichia coli</i>     | O18:K1:H7   | RS218     | Clinical isolate              | 4,7.10 <sup>5</sup> | -             | -                              | pink             | /     |
| 21.              | <i>Salmonella</i>           | Landau      | Ad499     |                               | 2,9.10 <sup>5</sup> | -             | -                              | growth -         | /     |
| 22.              | <i>Salmonella</i>           | Sternhauze  | Ad500     |                               | 3,8.10 <sup>5</sup> | -             | -                              | pale pink        | /     |
| 23.              | <i>Salmonella</i>           | Urbana      | Ad501     |                               | 3,7.10 <sup>5</sup> | -             | -                              | weak pink growth | /     |
| 24.              | <i>Salmonella</i>           | Wayne       | Ad502     |                               | 3,0.10 <sup>5</sup> | -             | -                              | growth -         | /     |
| 25.              | <i>Hafnia alvei</i>         |             | 88        | pastry                        | 4,2.10 <sup>5</sup> | -             | -                              | growth -         | /     |
| 26.              | <i>Hafnia alvei</i>         |             | 167       | sausage                       | 3,2.10 <sup>5</sup> | -             | -                              | growth -         | /     |
| 27.              | <i>Citrobacter freundii</i> |             | 25        | vegetable                     | 3,9.10 <sup>5</sup> | -             | -                              | growth -         | /     |
| 28.              | <i>Citrobacter freundii</i> |             | 104       | Ground beef                   | 3,6.10 <sup>5</sup> | -             | -                              | growth -         | /     |
| 29.              | <i>Escherichia vulneris</i> |             | 127       | Raw milk                      | 5,5.10 <sup>5</sup> | -             | -                              | growth -         | /     |
| 30.              | <i>Pantoea spp.</i>         |             | 134       | Pork meat                     | 8,5.10 <sup>4</sup> | -             | -                              | growth -         | /     |
| 31.              | <i>Escherichia coli</i>     | O157        | Ad524     | Environmental sample          | 4,2.10 <sup>5</sup> | -             | -                              | pink             | /     |
| 32.              | <i>Escherichia coli</i>     | O157        | Ad525     | Bovine feces                  | 5,7.10 <sup>5</sup> | -             | -                              | pink             | /     |
| 33.              | <i>Escherichia coli</i>     | O157        | Ad526     | Bovine feces                  | 6,4.10 <sup>5</sup> | -             | -                              | pink             | /     |
| 34.              | <i>Escherichia coli</i>     | O157        | Ad527     | Clinical isolate              | 4,3.10 <sup>5</sup> | -             | -                              | pink             | /     |
| 35.              | <i>Escherichia coli</i>     | O157:H-     | O1.12.903 |                               | 109                 | -             | -                              | weak pink growth | /     |
| 36.              | <i>Escherichia coli</i>     | O157:H-     | O1.12.905 |                               | 42                  | -             | -                              | weak pink growth | /     |

Strains tested with the protocol applied for the inclusivity (MP broth 42°C)

### Appendix 8 - Inter-laboratory study: results obtained by the collaborators and the expert laboratory

Laboratory **A**  
Aerobic mesophilic flora 760/g

| Sample N° | Reference method: ISO 16654 |            |                     |              | Alternative method: BAX® O157:H7 MP |         |               |              | Agreement |
|-----------|-----------------------------|------------|---------------------|--------------|-------------------------------------|---------|---------------|--------------|-----------|
|           | IMS 24H                     |            | Confirmation result | Final result | PCR result                          | CT SMAC | Latex O157:H7 | Final result |           |
|           | CT SMAC                     | O157:H7 ID |                     |              |                                     |         |               |              |           |
| A3        | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| A8        | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| A9        | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| A12       | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| A15       | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| A18       | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| A20       | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| A21       | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| A1        | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| A4        | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| A7        | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| A10       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| A11       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| A13       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| A17       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| A24       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| A2        | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| A5        | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| A6        | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| A14       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| A16       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| A19       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| A22       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| A23       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |

Laboratory **B**  
 Aerobic mesophilic flora 360/g

| Sample N° | Reference method: ISO 16654 |            |                     |              | Alternative method: BAX® O157:H7 MP |         |               |              | Agreement |
|-----------|-----------------------------|------------|---------------------|--------------|-------------------------------------|---------|---------------|--------------|-----------|
|           | IMS 24H                     |            | Confirmation result | Final result | PCR result                          | CT SMAC | Latex O157:H7 | Final result |           |
|           | CT SMAC                     | O157:H7 ID |                     |              |                                     |         |               |              |           |
| B3        | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| B8        | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| B9        | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| B12       | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| B15       | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| B18       | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| B20       | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| B21       | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| B1        | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| B4        | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| B7        | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| B10       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| B11       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| B13       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| B17       | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| B24       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| B2        | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| B5        | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| B6        | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| B14       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| B16       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| B19       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| B22       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| B23       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |

Laboratory **C**  
 Aerobic mesophilic flora 2000/g

| Sample N° | Reference method: ISO 16654 |            |                     |              | Alternative method: BAX® O157:H7 MP |         |               |              | Agreement |
|-----------|-----------------------------|------------|---------------------|--------------|-------------------------------------|---------|---------------|--------------|-----------|
|           | IMS 24H                     |            | Confirmation result | Final result | PCR result                          | CT SMAC | Latex O157:H7 | Final result |           |
|           | CT SMAC                     | O157:H7 ID |                     |              |                                     |         |               |              |           |
| C3        | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| C8        | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| C9        | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| C12       | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| C15       | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| C18       | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| C20       | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| C21       | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| C1        | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| C4        | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| C7        | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| C10       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| C11       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| C13       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| C17       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| C24       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| C2        | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| C5        | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| C6        | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| C14       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| C16       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| C19       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| C22       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| C23       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |

Laboratory                    D  
 Aerobic mesophilic flora    2300/g

| Sample N° | Reference method: ISO 16654 |            |                     |              | Alternative method: BAX® O157:H7 MP |         |               |              | Agreement |
|-----------|-----------------------------|------------|---------------------|--------------|-------------------------------------|---------|---------------|--------------|-----------|
|           | IMS 24H                     |            | Confirmation result | Final result | PCR result                          | CT SMAC | Latex O157:H7 | Final result |           |
|           | CT SMAC                     | O157:H7 ID |                     |              |                                     |         |               |              |           |
| D3        | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| D8        | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| D9        | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| D12       | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| D15       | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| D18       | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| D20       | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| D21       | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| D1        | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| D4        | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| D7        | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| D10       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| D11       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| D13       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| D17       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| D24       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| D2        | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| D5        | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| D6        | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| D14       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| D16       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| D19       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| D22       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| D23       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |

Laboratory                    E  
 Aerobic mesophilic flora    1100/g

| Sample N° | Reference method: ISO 16654 |            |                     |              | Alternative method: BAX® O157:H7 MP |         |               |              | Agreement |
|-----------|-----------------------------|------------|---------------------|--------------|-------------------------------------|---------|---------------|--------------|-----------|
|           | IMS 24H                     |            | Confirmation result | Final result | PCR result                          | CT SMAC | Latex O157:H7 | Final result |           |
|           | CT SMAC                     | O157:H7 ID |                     |              |                                     |         |               |              |           |
| E3        | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| E8        | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| E9        | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| E12       | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| E15       | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| E18       | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| E20       | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| E21       | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| E1        | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| E4        | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| E7        | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| E10       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| E11       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| E13       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| E17       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| E24       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| E2        | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| E5        | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| E6        | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| E14       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| E16       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| E19       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| E22       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| E23       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |

**Laboratory** F  
 Aerobic mesophilic flora 3300/g

| SampleN° | Reference method: ISO 16654 |            |                     |              | Alternative method: BAX® O157:H7 MP |         |               |              | Agrrement |
|----------|-----------------------------|------------|---------------------|--------------|-------------------------------------|---------|---------------|--------------|-----------|
|          | IMS 24H                     |            | Confirmation result | Final result | PCR result                          | CT SMAC | Latex O157:H7 | Final result |           |
|          | CT SMAC                     | O157:H7 ID |                     |              |                                     |         |               |              |           |
| F3       | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| F8       | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| F9       | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| F12      | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| F15      | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| F18      | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| F20      | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| F21      | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| F1       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| F4       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| F7       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| F10      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| F11      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| F13      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| F17      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| F24      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| F2       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| F5       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| F6       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| F14      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| F16      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| F19      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| F22      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| F23      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |

Laboratory **G**  
 Aerobic mesophilic flora 5400/g

| Sample N° | Reference method: ISO 16654 |            |                     |              | Alternative method: BAX® O157:H7 MP |         |               |              | Agreement |
|-----------|-----------------------------|------------|---------------------|--------------|-------------------------------------|---------|---------------|--------------|-----------|
|           | IMS 24H                     |            | Confirmation result | Final result | PCR result                          | CT SMAC | Latex O157:H7 | Final result |           |
|           | CT SMAC                     | O157:H7 ID |                     |              |                                     |         |               |              |           |
| G3        | +(1)                        | +(1)       | +                   | +            | -                                   | /       | /             | -            | ND        |
| G8        | +(1)                        | +(1)       | +                   | +            | -                                   | /       | /             | -            | ND        |
| G9        | +(1)                        | +(1)       | +                   | +            | -                                   | /       | /             | -            | ND        |
| G12       | +(1)                        | +(1)       | +                   | +            | -                                   | /       | /             | -            | ND        |
| G15       | +(1)                        | +(1)       | +                   | +            | -                                   | /       | /             | -            | ND        |
| G18       | +(1)                        | +(1)       | +                   | +            | -                                   | /       | /             | -            | ND        |
| G20       | +(1)                        | +(1)       | +                   | +            | -                                   | /       | /             | -            | ND        |
| G21       | +(1)                        | +(1)       | +                   | +            | -                                   | /       | /             | -            | ND        |
| G1        | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| G4        | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| G7        | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| G10       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| G11       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| G13       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| G17       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| G24       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| G2        | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| G5        | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| G6        | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| G14       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| G16       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| G19       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| G22       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| G23       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |

(1) Presence of a few characteristic colonies

Laboratory I  
Aerobic mesophilic flora 780/g

| Sample N° | Reference method: ISO 16654 |            |                     |              | Alternative method: BAX® O157:H7 MP |         |               |              | Agrrement |
|-----------|-----------------------------|------------|---------------------|--------------|-------------------------------------|---------|---------------|--------------|-----------|
|           | IMS 24H                     |            | Confirmation result | Final result | PCR result                          | CT SMAC | Latex O157:H7 | Final result |           |
|           | CT SMAC                     | O157:H7 ID |                     |              |                                     |         |               |              |           |
| I3        | +                           | +          | +(H7-)              | +            | -                                   | /       | /             | -            | ND        |
| I8        | +                           | -          | -                   | -            | -                                   | /       | /             | -            | NA        |
| I9        | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| I12       | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| I15       | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| I18       | +                           | -          | -                   | -            | -                                   | /       | /             | -            | NA        |
| I20       | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| I21       | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| I1        | +                           | +          | +(H7-)              | +            | +                                   | +       | +(H7-)        | +            | PA        |
| I4        | +                           | +          | +(H7-)              | +            | +                                   | +       | +(H7-)        | +            | PA        |
| I7        | +                           | +          | +(H7-)              | +            | +                                   | +       | +(H7-)        | +            | PA        |
| I10       | +                           | +          | +(H7-)              | +            | +                                   | +       | +(H7-)        | +            | PA        |
| I11       | +                           | +          | +(H7-)              | +            | +                                   | +       | +(H7-)        | +            | PA        |
| I13       | +                           | +          | +(H7-)              | +            | +                                   | +       | +(H7-)        | +            | PA        |
| I17       | +                           | +          | +(H7-)              | +            | +                                   | +       | +(H7-)        | +            | PA        |
| I24       | +                           | +          | +(H7-)              | +            | +                                   | +       | +(H7-)        | +            | PA        |
| I2        | +                           | +          | +(H7-)              | +            | +                                   | +       | +(H7-)        | +            | PA        |
| I5        | +                           | +          | +(H7-)              | +            | +                                   | +       | +(H7-)        | +            | PA        |
| I6        | +                           | +          | +(H7-)              | +            | +                                   | +       | +(H7-)        | +            | PA        |
| I14       | +                           | +          | +(H7-)              | +            | +                                   | +       | +(H7-)        | +            | PA        |
| I16       | +                           | +          | +(H7-)              | +            | +                                   | +       | +(H7-)        | +            | PA        |
| I19       | +                           | +          | +(H7-)              | +            | +                                   | +       | +(H7-)        | +            | PA        |
| I22       | +                           | +          | +(H7-)              | +            | +                                   | +       | +(H7-)        | +            | PA        |
| I23       | +                           | +          | +(H7-)              | +            | +                                   | +       | +(H7-)        | +            | PA        |

Laboratory  
Aerobic mesophilic flora

J  
220/g

| SampleN° | Reference method: ISO 16654 |            |                     |              | Alternative method: BAX® O157:H7 MP |         |               |              | Agrrement |
|----------|-----------------------------|------------|---------------------|--------------|-------------------------------------|---------|---------------|--------------|-----------|
|          | IMS 24H                     |            | Confirmation result | Final result | PCR result                          | CT SMAC | Latex O157:H7 | Final result |           |
|          | CT SMAC                     | O157:H7 ID |                     |              |                                     |         |               |              |           |
| J3       | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| J8       | +                           | +          | -                   | -            | -                                   | /       | /             | -            | NA        |
| J9       | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| J12      | +                           | +          | -                   | -            | -                                   | /       | /             | -            | NA        |
| J15      | +                           | +          | -                   | -            | -                                   | /       | /             | -            | NA        |
| J18      | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| J20      | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| J21      | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| J1       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| J4       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| J7       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| J10      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| J11      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| J13      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| J17      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| J24      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| J2       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| J5       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| J6       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| J14      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| J16      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| J19      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| J22      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| J23      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |

Laboratory  
Aerobic mesophilic flora

K  
2800/g

| SampleN° | Reference method: ISO 16654 |            |                     |              | Alternative method: BAX® O157:H7 MP |         |               |              | Agrrement |
|----------|-----------------------------|------------|---------------------|--------------|-------------------------------------|---------|---------------|--------------|-----------|
|          | IMS 24H                     |            | Confirmation result | Final result | PCR result                          | CT SMAC | Latex O157:H7 | Final result |           |
|          | CT SMAC                     | O157:H7 ID |                     |              |                                     |         |               |              |           |
| K3       | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| K8       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| K9       | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| K12      | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| K15      | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| K18      | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| K20      | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| K21      | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| K1       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| K4       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| K7       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| K10      | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| K11      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| K13      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| K17      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| K24      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| K2       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| K5       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| K6       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| K14      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| K16      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| K19      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| K22      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| K23      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |

Laboratory  
Aerobic mesophilic flora

L  
3000/g

| SampleN° | Reference method: ISO 16654 |            |                     |              | Alternative method: BAX® O157:H7 MP |         |               |              | Agrrement |
|----------|-----------------------------|------------|---------------------|--------------|-------------------------------------|---------|---------------|--------------|-----------|
|          | IMS 24H                     |            | Confirmation result | Final result | PCR result                          | CT SMAC | Latex O157:H7 | Final result |           |
|          | CT SMAC                     | O157:H7 ID |                     |              |                                     |         |               |              |           |
| L3       | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| L8       | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| L9       | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| L12      | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| L15      | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| L18      | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| L20      | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| L21      | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| L1       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| L4       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| L7       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| L10      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| L11      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| L13      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| L17      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| L24      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| L2       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| L4       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| L6       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| L14      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| L16      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| L19      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| L22      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| L23      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |

**Laboratory**  
Aerobic mesophilic flora

**M**  
2500/g

| SampleN° | Reference method: ISO 16654 |            |                     |              | Alternative method: BAX® O157:H7 MP |         |               |              | Agrrement |
|----------|-----------------------------|------------|---------------------|--------------|-------------------------------------|---------|---------------|--------------|-----------|
|          | IMS 24H                     |            | Confirmation result | Final result | PCR result                          | CT SMAC | Latex O157:H7 | Final result |           |
|          | CT SMAC                     | O157:H7 ID |                     |              |                                     |         |               |              |           |
| M3       | -                           | -          | -                   | -            | -                                   | /       | /             | -            | NA        |
| M8       | +                           | -          | -                   | -            | -                                   | /       | /             | -            | NA        |
| M9       | -                           | -          | -                   | -            | -                                   | /       | /             | -            | NA        |
| M12      | +                           | -          | -                   | -            | -                                   | /       | /             | -            | NA        |
| M15      | -                           | -          | -                   | -            | -                                   | /       | /             | -            | NA        |
| M18      | +                           | -          | -                   | -            | -                                   | /       | /             | -            | NA        |
| M20      | +                           | -          | -                   | -            | -                                   | /       | /             | -            | NA        |
| M21      | -                           | -          | -                   | -            | -                                   | /       | /             | -            | NA        |
| M1       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| M4       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| M7       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| M10      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| M11      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| M13      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| M17      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| M24      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| M2       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| M5       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| M6       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| M14      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| M16      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| M19      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| M22      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| M23      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |

Laboratory  
Aerobic mesophilic flora

N  
1900/g

| SampleN° | Reference method: ISO 16654 |            |                     |              | Alternative method: BAX® O157:H7 MP |         |               |              | Agrrement |
|----------|-----------------------------|------------|---------------------|--------------|-------------------------------------|---------|---------------|--------------|-----------|
|          | IMS 24H                     |            | Confirmation result | Final result | PCR result                          | CT SMAC | Latex O157:H7 | Final result |           |
|          | CT SMAC                     | O157:H7 ID |                     |              |                                     |         |               |              |           |
| N3       | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| N8       | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| N9       | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| N12      | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| N15      | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| N18      | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| N20      | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| N21      | -                           | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| N1       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| N4       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| N7       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| N10      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| N11      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| N13      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| N17      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| N24      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| N2       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| N5       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| N6       | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| N14      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| N16      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| N19      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| N22      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| N23      | +                           | +          | +                   | +            | +                                   | +       | +             | +            | PA        |

Laboratory  
Aerobic mesophilic flora

ADRIA  
3000/g

| Sample N° | Reference method: ISO 16654♦ |            |                     |              | Alternative method: BAX® O157:H7 MP |         |               |              | Agrrement |
|-----------|------------------------------|------------|---------------------|--------------|-------------------------------------|---------|---------------|--------------|-----------|
|           | IMS 24H                      |            | Confirmation result | Final result | PCR result                          | CT SMAC | Latex O157:H7 | Final result |           |
|           | CT SMAC                      | O157:H7 ID |                     |              |                                     |         |               |              |           |
| P3        | -                            | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| P8        | -                            | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| P9        | -                            | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| P12       | -                            | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| P15       | -                            | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| P18       | -                            | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| P20       | -                            | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| P21       | -                            | -          | /                   | -            | -                                   | /       | /             | -            | NA        |
| P1        | +                            | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| P4        | +                            | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| P7        | +                            | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| P10       | +                            | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| P11       | +                            | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| P13       | +                            | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| P17       | +                            | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| P24       | +                            | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| P2        | +                            | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| P5        | +                            | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| P6        | +                            | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| P14       | +                            | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| P16       | +                            | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| P19       | +                            | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| P22       | +                            | +          | +                   | +            | +                                   | +       | +             | +            | PA        |
| P23       | +                            | +          | +                   | +            | +                                   | +       | +             | +            | PA        |

♦ Analyses performed according to the COFRAC accreditation