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**AFNOR Certification of the OAA – short protocol method  
for *L.monocytogenes* & *Listeria* species detection,  
according to the EN ISO 16140 standard  
BIO 12/14-04/05 - 43641/43649**

**SUMMARY REPORT**

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OAA summary 2009 v01

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## **APPENDICES**

# 1 Introduction

## 1.1 Validation references

The Ottaviani Agosti Agar – short protocol (OAA) method has been validated since April 2005 according to the reference method EN ISO 16140:2003, with respect to the reference method EN ISO 11290/A1:2004.

## 1.2 Protocol and principle of the alternative method

### 1.2.1 Protocol

The diagram summarizing the method is shown in appendix A.

The protocol is:

- enrichment in half Fraser broth, incubated for 24 hours +/- 2 hours at 30°C +/- 1°C,
- then inoculation of 100 µL on an chromID Ottaviani Agosti agar, incubated for 22 to 26 hours at 37°C +/- 1°C,

The characteristic colonies of *Listeria monocytogenes* on chrom'ID Ottaviani Agosti agar have to be confirmed:

- 1) by the conventional tests described in the methods standardized by the CEN or ISO, including a purification step,
- 2) by the RAPIDEC® Lmono test, without purification if the colonies are well isolated,
- 3) by API Listeria strip, without purification if the colonies are well isolated,
- 4) by the Accuprobe *L.monocytogenes* test, directly from isolated or not colonies on chrom'ID Ottaviani Agosti agar,
- 5) by the VIDAS LMO2 test, directly from isolated or not colonies on chrom'ID Ottaviani Agosti agar.
- 6) By isolation on ALOA CONFIRMATION® agar, on Rapid'L.mono agar (6 ridges per plate) or ChroMagar® *Listeria* identification according to the procedure of the package inserts.

The characteristic colonies of *Listeria spp.* on chrom'ID Ottaviani Agosti agar have to be confirmed:

- by the conventional tests for the genus described in the methods standardized by the CEN or ISO, including a purification step,
- by performing a Gram stain and using the IDCOLOR Catalase reagent directly on the typical isolated colonies,
- by using an isolated colony and stabbing PALCAM agar (up to 15 stabs per plate),
- by streaking on PALCAM agar, if the colony is not well isolated.

In the case of not properly isolated colonies on chrom'ID Ottaviani Agosti agar, a purification on TSAYE plate is necessary, before performing the confirmation tests, except for the Accuprobe *L.monocytogenes* test and the VIDAS LMO2 test.

### 1.2.2 Principle

The method uses the chromID™ Ottaviani Agosti agar, which complies with the formulation described in the standards EN ISO 11290-1/A1 and EN ISO 11290-2/A1

All the species of *Listeria* grow on the agar and produce blue-turquoise colonies (glucosidase activity).

The differentiation of *Listeria monocytogenes* is based on the appearance of an opaque halo around the colony (phospholipase C activity)

## 1.3 Application scope

All food products  
Environmental samples

## 1.4 Reference method

EN ISO 11290-1/A1:2004 (#) standard method.

The diagram summarizing the method is shown in annex A.

## 1.5 Background of certification

The Ottaviani Agosti Agar – short protocol (OAA) method has been certified “AFNOR Validation” with the certificate number BIO 12/14–04/05.

- May 2005 : initial study
- September 2006 : addition of new confirmation procedures
- December 2006 : realization of the interlaboratory study according to EN ISO 16140 standard
- January 2008 : addition of new confirmation procedure (Rapidec® L mono)
- March 2008 : extension to the detection of the other *Listeria species*
- March 2009 : addition of new confirmation procedure (VIDAS® LMO2)

## 2 Comparative study of methods

### 2.1 Relative accuracy, relative specificity and relative sensitivity

Two studies for relative accuracy, relative specificity and relative selectivity were realized:

- one to assess the performances of the method for *Listeria monocytogenes* detection (2005)
- one to assess the performances of the method for *Listeria* spp. detection (2008)

#### 2.1.1 OAA method – short protocol for the *Listeria monocytogenes* detection

The aim of this study, according to the reference document ISO 16140, was to compare the performances of the two methods:

- the reference method EN ISO 11290-1/A1:2004,
- the OAA method

on naturally and artificially *Listeria monocytogenes* contaminated samples and uncontaminated samples .

##### 2.1.1.1 Number and nature of the samples

According to the ISO 16140 standard, a minimum of 60 products per category must be analyzed, with around 50% of positive products (at least 30 results) and 50% of negative products.

Each category was divided into various types and the results are displayed as follows:

Categories	Types	Positive*	Négative	Total
Meat products	Raw meat	10	20	30
	Raw seasoned meat	4	16	20
	Delicatessen	17	9	26
	<b>Total</b>	<b>31</b>	<b>45</b>	<b>76</b>
Dairy products	Raw milk cheese (cow)	7	11	18
	Raw milk cheese (goat and ewe)	14	12	26
	Raw milk and pastries	9	8	17
	<b>Total</b>	<b>30</b>	<b>31</b>	<b>61</b>
Produits de la pêche	Smoked fish	14	8	22
	Raw fish	8	15	23
	Ready-to-eat meals with fish and shellfish	9	11	20
	<b>Total</b>	<b>31</b>	<b>34</b>	<b>65</b>
Vegetables	Raw	8	11	19
	Frozen	9	8	17
	Cooked or seasoned	13	12	25
	<b>Total</b>	<b>30</b>	<b>31</b>	<b>61</b>
Environment	Various waters	11	10	21
	Surface samples	11	19	30
	Residues and scraps	8	13	21
	<b>Total</b>	<b>30</b>	<b>42</b>	<b>72</b>
<b>TOTAL</b>		<b>152</b>	<b>183</b>	<b>335</b>

\* these are positive results by one or other of the methods

### 2.1.1.2 Artificially contaminated samples

Artificial contamination was achieved by using stressed bacterial suspensions, the stress treatment and efficiency of which have been determined according to EN ISO 16140 and AFNOR validation rules.

7 different strains were used to obtain 31 positive results.

In total, 20% of positive results were obtained as a result of artificial contamination.

### 2.1.1.3 Results

The analyses were conducted in single using the two methods.

The results of the 335 analyzed samples are presented in appendix B.

The tables of the results of samples are below:

	<b>Positive reference method (R+)</b>	<b>Negative reference method (R-)</b>
<b>Positive alternative method (A+)</b>	Positive agreement (A+/R+) <b>PA = 145</b>	Positive deviation (R-/A+) <b>PD = 3</b>
<b>Negative alternative method (A-)</b>	Negative deviation (A-/R+) <b>ND = 4 *</b>	Negative agreement (A-/R-) <b>NA = 183 **</b>

Legend:

A+ = positives confirmed

A- = immediate negatives **and** negatives after confirmation when presumed positive

\* 0 unconfirmed OAA presumptive positive result

\*\* 1 unconfirmed OAA and ISO methods presumptive positive result, for a sample contaminated with *L.ivanovii*

### 2.1.1.4 Calculation of relative accuracy (AC), relative specificity (SP) and relative sensitivity (SE) according to the EN ISO 16140 standard

Category	PA	NA	ND	PD	Sum N	Relative accuracy AC (%) [100x(PA+NA)]/N	N+ PA + ND	Relative sensitivity SE (%) [100xPA]/N+	N- NA + PD	Relative specificity SP (%) [100xNA]/N-
Meat products	28	45	0	3	76	96.1	28	100.0	48	93.8
Dairy products	29	31	1	0	61	98.4	30	96.7	31	100
Seafood	30	34	1	0	65	98.5	31	96.8	34	100
Vegetables	30	31	0	0	61	100.0	31	100	30	100
Environment	28	42	2	0	72	97.2	30	93.3	42	100
<b>TOTAL</b>	<b>145</b>	<b>183</b>	<b>4</b>	<b>3</b>	<b>335</b>	<b>97.9</b>	<b>149</b>	<b>97.3</b>	<b>186</b>	<b>98.4</b>

Results for the alternative method

Relative accuracy : <b>AC</b>	<b>97.9 %</b>
Relative specificity : <b>SP</b>	<b>98.4 %</b>
Relative sensitivity : <b>SE</b>	<b>97.3 %</b>

The AFNOR Technical Board asks the sensitivity of the two methods to be recalculated with consideration of all the confirmed positives (this includes the additional positives of the alternative method):

Alternative method	Reference method
$(PA + PD) / (PA + PD + ND) = 97.4 \%$	$(PA + ND) / (PA + PD + ND) = 98.0 \%$

### 2.1.1.5 Analysis of discordances

The number of discordances between the reference method and the alternative was 7.

According to annex F of the EN ISO 16140 standard, the minimum number of discordances for which a statistical test must be conducted in order to compare the two methods is 6.

The statistic test was performed.

When the number of discordances is between 6 and 22, the aim is the determination of the M value, depending on the total number of discordances and according to the EN ISO 16140 (appendix F) and the comparison between M and an m-value, as the smaller of the two values of PD and ND. Both methods would be considered as equivalent if  $m > M$ .

Number of discordances	M	m	Conclusion
7	0	3	Equivalence

The alternative method and the reference method (EN ISO 11290-1/A1) can be considered as equivalent for the detection of *Listeria monocytogenes*.

### 2.1.2 **OAA method – short protocol for the *Listeria spp.* detection**

The aim of this study, according to the reference document ISO 16140, was to compare the performances of the two methods:

- the reference method EN ISO 11290-1/A1:2004,
- the OAA method

on naturally and artificially *Listeria spp* contaminated samples and uncontaminated samples.

#### 2.1.2.1 Number and nature of the samples

According to the ISO 16140 standard, a minimum of 60 products per category must be analyzed, with around 50% of positive products (at least 30 results) and 50% of negative products.

Each category was divided into various types and the results are displayed as follows:

Categories	Types	Positive*	Négative	Total
Meat products	Raw meat	8	1	9
	Raw seasoned meat	11	7	18
	Delicatessen	15	25	40
	<b>Total</b>	<b>34</b>	<b>33</b>	<b>67</b>
Dairy products	Raw milk and raw milk cheese (cow)	12	13	25
	Raw milk and raw milk cheese (goat and ewe)	12	6	18
	Milk powder and pastries	10	13	23
	<b>Total</b>	<b>34</b>	<b>32</b>	<b>66</b>
Produits de la pêche	Raw fish and shellfish	15	32	47
	Smoked fish	9	31	40
	Ready-to-eat meals with fish	6	7	13
	<b>Total</b>	<b>30</b>	<b>70</b>	<b>100</b>
Vegetables	Frozen	10	5	15
	Raw	12	12	24
	Cooked or seasoned	9	14	23
	<b>Total</b>	<b>31</b>	<b>31</b>	<b>62</b>
Environment	Various waters	11	10	21
	Surface samples	11	21	32
	Residues and scraps	12	13	26
	<b>Total</b>	<b>34</b>	<b>44</b>	<b>78</b>
<b>TOTAL</b>		<b>163</b>	<b>210</b>	<b>373</b>

\* these are positive results by one or other of the methods

### 2.1.2.2 Artificial contamination of the samples and percentage

Artificial contamination was achieved by using stressed bacterial suspensions, the stress treatment and efficiency of which have been determined according to EN ISO 16140 and AFNOR validation rules.

18 different strains were used to obtain 76 positive results.

In total, 47% of positive results were obtained as a result of artificial contamination.

### 2.1.2.3 Results of assays

The analyses were conducted singly using the two methods.

The results of the 373 analyzed samples are presented in appendix C.

The tables of the results of samples are below:

	<b>Positive reference method (R+)</b>	<b>Negative reference method (R-)</b>
<b>Positive alternative method (A+)</b>	Positive agreement (A+/R+) <b>PA = 156</b>	Positive deviation (R-/A+) <b>PD = 2</b>
<b>Negative alternative method (A-)</b>	Negative deviation (A-/R+) <b>ND = 5 *</b>	Negative agreement (A-/R-) <b>NA = 210 **</b>

Legend:

A+ = positives confirmed

A- = immediate negatives **and** negatives after confirmation when presumed positive

\* 1 unconfirmed OAA presumptive positive result

\*\* 9 unconfirmed OAA presumptive positive results, and 8 unconfirmed ISO standard presumed positive results (presence of Bacillus)

### 2.1.2.4 Calculation of relative accuracy (AC), relative specificity (SP) and relative sensitivity (SE) according to the EN ISO 16140 standard

Category	PA	NA	ND	PD	Sum N	Relative accuracy AC (%) [100x(PA+NA)]/N	N+ PA + ND	Relative sensitivity SE (%) [100xPA]/N+	N- NA + PD	Relative specificity SP (%) [100xNA]/N-
Meat products	32	33	2	0	67	97.0	34	94.1	33	100
Dairy products	34	32	0	0	66	100	34	100	32	100
Seafood	28	38	2	0	68	97.1	30	93.3	38	100
Vegetables	28	31	1	2	62	95.2	29	96.6	33	93.9
Environment	34	44	0	0	78	100.0	34	100	44	100
<b>TOTAL</b>	<b>156</b>	<b>178</b>	<b>5</b>	<b>2</b>	<b>341</b>	<b>97.9</b>	<b>161</b>	<b>96.9</b>	<b>180</b>	<b>98.9</b>

Note : to avoid any bias in the calculations, 32 negative results for the Seafood products have been eliminated. These results are presented in the tables of Appendix C.

#### Results for the alternative method

Relative accuracy : <b>AC</b>	<b>97.9 %</b>
Relative specificity : <b>SP</b>	<b>98.9 %</b>
Relative sensitivity : <b>SE</b>	<b>96.9 %</b>

The AFNOR Technical Bureau asks the sensitivity of the two methods to be recalculated with consideration of all the confirmed positives (this includes the additional positives of the alternative method):

Alternative method	Reference method
$(PA + PD) / (PA + PD + ND) = 96.9 \%$	$(PA + ND) / (PA + PD + ND) = 98.8 \%$

### 2.1.2.5 Analysis of discordances

The number of discordances between the reference method and the alternative was 7. According to annex F of the EN ISO 16140 standard, the minimum number of discordances for which a statistical test must be conducted in order to compare the two methods is 6. The statistic test was performed.

When the number of discordances is between 6 and 22, the aim is the determination of the M value, depending on the total number of discordances and according to the EN ISO 16140 (appendix F) and the comparison between M and an m-value, as the smaller of the two values of PD and ND. Both methods would be considered as equivalent if  $m > M$ .

Number of discordances	M	m	Conclusion
7	0	2	Equivalence

The alternative method and the reference method (EN ISO 11290-1/A1) can be considered as equivalent for the detection of *Listeria spp.*

## 2.2 **Relative detection level**

The objective was to determine the level of contamination for which less than 50% of the responses obtained are positive and that for which more than 50% of the responses obtained are positive.

Different food/strain combinations were studied in parallel with the reference method and the OAA method, for five categories with *Listeria monocytogenes* and two categories with *Listeria* other than *monocytogenes*.

The artificial contaminations were realized according to EN ISO 16140 and AFNOR validation rules.

The levels of detection, calculated according to the Spearman – Kärber\* method (LOD<sub>50</sub>), obtained for each combination « matrix – strain » were the following:

Matrice	Strain	Relative detection level for the reference method (UFC / 25 g or 25 mL)	Relative detection level for the alternative method (UFC / 25 g or 25 mL)
Rillettes	<i>L.monocytogenes</i> 1/2 c	0.7 [0.4 – 1.3]	0.8 [0.4 – 1.5]
	<i>L.welshimeri</i>	0.6 [0.4 – 1.0]	0.6 [0.4 – 1.0]
Raw milk	<i>L.monocytogenes</i> 1/2 b	0.4 [0.3 – 0.7]	0.4 [0.3 – 0.7]
	<i>L.ivanovii</i>	0.7 [0.4 – 1.4]	0.7 [0.4 – 1.4]
Smoked salmon	<i>L.monocytogenes</i> 1/2 a	0.4 [0.2 – 0.8]	0.4 [0.2 – 0.8]
Red cabbage	<i>L.monocytogenes</i> 4b	0.7 [0.5 – 1.1]	0.7 [0.5 – 1.1]
Process water	<i>L.monocytogenes</i> 1/2 c	0.5 [0.3 – 1.0]	0.5 [0.3 – 1.0]

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

The level of detection obtained for the OAA method – detection of *Listeria monocytogenes* – was between 0.2 and 1.5 cells per 25 grams. For the reference method, it is between 0.2 and 1.3 cells per 25 grams.

The level of detection obtained for detection of *Listeria spp* was between 0.4 and 1.4 cells per 25 grams for both methods.

## 2.3 Inclusivity / exclusivity study

The inclusivity and the exclusivity of the method are defined by analysis, respectively, of 50 positive strains and 30 negative strains. The different studies (initial certification, extensions for additional confirmation protocols, extension for the *Listeria* other than *monocytogenes* detection) have allowed to obtain lot of data.

### 2.3.1 Protocols

#### Protocol for inclusivity

Each of the *Listeria* strains was tested following the complete protocol of the OAA method, from a half Fraser culture.

#### Protocol for exclusivity

The different negative strains were cultivated and diluted in nutrient broth to obtain levels of around  $10^5$  cells per mL. After incubation, a chrom'ID Ottaviani Agosti agar was streaked for each strain and incubated 24 hours at 37°C.

### 2.3.2 Results and conclusion

The results are presented in appendix D.

62 strains of *Listeria* other than *monocytogenes*, including 29 *Listeria ivanovii*, and 153 strains of *Listeria monocytogenes* were tested and were all detected on chrom'ID Ottaviani Agosti agar.

Among the 63 non-*Listeria* strains tested, some strains of *Bacillus* or *Enterococcus* gave blue colonies on the plates, but the confirmation tests were always negative. The same phenomenon is observed for the reference method.

### 2.3.3 Confirmation options

#### a) Confirmations for *Listeria monocytogenes*

In the initial certification study, three different confirmation options were tested:

- Utilisation of conventional tests described in the methods standardized by the CEN or ISO (haemolysis, API strip and Camp test) , without the purification step if the colonies were isolated  
The majority of confirmations was achieved without purification.  
For 7 samples, the purification step was necessary by the lack of isolated colonies:
  - 3 meat products, for which the interfering flora was too high,
  - 1 seafood product, contaminated with both *Listeria monocytogenes* and *Listeria innocua*: the reading of the halos was difficult,
  - 3 environmental samples where the presence of a *Bacillus* prevented the plates reading. Only one sample was positive for *Listeria monocytogenes*. The other two samples didn't contain *Listeria monocytogenes* (results concordant with the reference method).
- Confirmation by the Accuprobe *L.monocytogenes* test and by the VIDAS LMO2 test, directly from isolated or not colonies on chrom'ID Ottaviani Agosti agar  
All the plates with characteristic colonies of *Listeria monocytogenes* gave a positive GeneProbe test and a positive VIDAS LMO2 test, except for one meat product. For this sample, some characteristic colonies were present on chrom'ID Ottaviani Agosti agar, but the GeneProbe result and the VIDAS LMO2 test were negative. Further identifications of these characteristic colonies have led to *Listeria ivanovii*.
- Confirmation by the VIDAS LMO2 test, directly from isolated or not colonies on chrom'ID Ottaviani Agosti agar  
All the samples were confirmed by the VIDAS LMO2 test, from characteristic colonies and all

An **extension study** was performed to add three confirmation options : confirmations by streaking on ALOA *CONFIRMATION*<sup>™</sup> or on RAPID'L.mono (6 streaks) or on CHROMagar<sup>™</sup> Identification *Listeria*, directly from isolated colonies on chrom'ID Ottaviani Agosti agar (the protocols of each confirmation method are followed).

150 *Listeria monocytogenes* strains, with various serotypes and origin, presented a characteristic aspect on chrom'ID Ottaviani Agosti agar, were tested to verify that the confirmations options were positive.

100 non targeted strains including half of *Listeria* other than *monocytogenes* and half of strains from other genus like *Bacillus*, *Lactobacillus*, *Staphylococcus*, *Enterococcus*, ..., which could grow on chrom'ID Ottaviani Agosti, were also tested.

All the results were consistent with those expected, with each confirmation option.

We can note that, even if the *Listeria ivanovii* strains gave characteristic colonies on chrom'ID Ottaviani Agosti agar, the confirmation results were negative.

In **the extension study** for the use of the RAPIDEC<sup>®</sup> Lmono test as a confirmation test, assays were realized on pure cultures.

The RAPIDEC<sup>®</sup> Lmono test was inoculated from an isolated colony on chrom'ID Ottaviani Agosti agar, on blood agar and on TSA agar. Each test was read after an incubation of 4 hours, 6 hours and 24 hours at 37°C and after storage at room temperature following the incubation at 37°C for a maximum of 72 hours after inoculation.

150 *Listeria monocytogenes* strains, with various serotypes and origin, presented a characteristic aspect on chrom'ID Ottaviani Agosti agar, were tested to verify that the RAPIDEC<sup>®</sup> Lmono test was positive.

100 non targeted strains, including half of *Listeria* other than *monocytogenes* and half of strains from other genus like *Bacillus*, *Lactobacillus*, *Staphylococcus*, *Enterococcus*, ..., which could grow on chrom'ID Ottaviani Agosti, were also tested.

Target strains :

From the chrom'ID Ottaviani Agosti agar, the results were consistent with those expected for 149 *Listeria monocytogenes*, after 6 hours incubation. From the blood agar, the results were consistent with those expected for 145 *Listeria monocytogenes*, after 6 hours incubation. For 4 *Listeria monocytogenes*, the results became conform to those expected after 24 hours incubation.

From the TSA agar, the results were consistent with those expected for 141 *Listeria monocytogenes*, after 6 hours incubation. For 8 *Listeria monocytogenes*, the results became conform to those expected after 24 hours incubation. One strain of *Listeria monocytogenes* was not green (positive) with the RAPIDEC<sup>®</sup> Lmono test whatever the length of incubation and the isolation agar.

Non target strains :

Results were consistent with those expected for the 100 strains tested

#### b) Confirmations for *Listeria spp.*

The characteristic colonies of ***Listeria spp.*** on chrom'ID Ottaviani Agosti agar have to be confirmed:

- by the conventional tests for the genus described in the methods standardized by the CEN or ISO, including a purification step,
- by performing a Gram stain and using the IDCColor Catalase reagent directly on the typical isolated colonies,
- by using an isolated colony and stabbing PALCAM agar (up to 15 stabs per plate),
- by streaking on PALCAM agar, if the colony is not well isolated.

These confirmations were performed during the extension study to validate the *Listeria spp.* detection, on all samples tested in the relative accuracy, relative specificity and relative sensitivity assays.

All results were consistent with those expected. Purification and re-isolation on PALCAM plates when the colonies were not isolated, were conducted for 11 samples, representing 0.7% of the positive samples.

### 3 Interlaboratory study

#### 3.1 Study organization

- Number of participating laboratories

16 laboratories received samples.

- Matrix used

Pasteurized milk

- Strain used for contamination

*Listeria monocytogenes* (origin « raw milk cheese »).

- Number of samples per laboratory

24 samples were prepared per laboratory, and were distributed in 3 levels, with 8 samples per level and method.

#### 3.2 Control of experimental parameters

##### 3.2.1 Contamination rates obtained after artificial contamination

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

Level	Samples	Targeted theoretical rate (b/25ml)	Real rate (b/25ml sample)	Estimated lower contamination limit per 25ml sample	Estimated upper contamination limit per 25ml sample
Level 0 (L0)	6-7-8-14-15-19-20-21	0	0		
Low level (L1)	1-2-9-10-11-16-22-23	3	4.5	1.2	11.5
High level (L2)	3-4-5-12-13-17-18-24	30	46.6	34	62

##### 3.2.2 Problems of temperature recorded during transport, temperature on reception and reception times

###### 3.2.2.1 Analysis of temperature monitoring curves during transport

The temperature curves obtained following operation of thermo button data show that temperatures are stable during transport between 0°C and 8°C for most of the laboratories.

###### 3.2.2.2 Temperatures on reception and reception times

The temperatures obtained are recorded in the following tables:

Laboratory	Reception Temperatures (°C)		Comments
	communicated by the laboratory	indicated by the thermo button	
A	4.0°C	4.4°C	/
B	/	12.4°C	Delivery at D2
C	/	12.4°C	Delivery at D2
D	2.5°C	1.4°C	/
E	6.5°C	5.9°C	/
F	4.3°C	5.0°C	/
G	4.0°C	3.4°C	/
H	6.2°C	4.4°C	/
I	6.5°C	3.9°C	/
J	7.1°C	6.0°C	/
K	8.5°C	7.9°C	/
L	6.6°C	3.9°C	/
M	5.5°C	5.9°C	/
N	4.4°C	4.9°C	/
O	5.7°C	6.0°C	/
P	7.8°C	7.5°C	/

##### 3.2.3 Conclusion

Following the delivery conditions, **14 laboratories** realized the analyses, because two 2 laboratories had not received the samples on time.

### 3.3 Results

#### 3.3.1 Results obtained by cooperating laboratories

The detailed results are presented in appendix E and the following tables give a synthesis of the results obtained by the 14 laboratories which have realized the analyses.

##### Positive results obtained by the reference method

Laboratories	Levels of contamination					
	L0		L1		L2	
	Obtaines	Nb samples	Obtaines	Nb samples	Obtaines	Nb samples
Lab A	0	8	8	8	8	8
Lab D	0	8	8	8	8	8
Lab E	0	8	8	8	8	8
Lab F	0	8	4	4	8	8
Lab G	0	8	8	8	8	8
Lab H	0	8	8	8	8	8
Lab I	0	8	8	8	8	8
Lab J	0	8	8	8	8	8
Lab K	0	8	8	8	8	8
Lab L	0	8	8	8	8	8
Lab M	0	8	8	8	8	8
Lab N	0	8	8	8	8	8
Lab O	0	8	8	8	8	8
Lab P	0	8	8	8	8	8
Total	0	112	108	108	112	112

##### Positive results obtained by the alternative method

Laboratories	Levels of contamination					
	L0		L1		L2	
	Obtaines	Nb samples	Obtaines	Nb samples	Obtaines	Nb samples
Lab A	0	8	8	8	8	8
Lab D	0	8	8	8	8	8
Lab E	0	8	8	8	8	8
Lab F	0	8	4	4	8	8
Lab G	0	8	8	8	8	8
Lab H	0	8	8	8	8	8
Lab I	0	8	8	8	8	8
Lab J	0	8	8	8	8	8
Lab K	0	8	8	8	8	8
Lab L	0	8	8	8	8	8
Lab M	0	8	8	8	8	8
Lab N	0	8	8	8	8	8
Lab O	0	8	8	8	8	8
Lab P	0	8	8	8	8	8
Total	0	112	108	108	112	112

#### 3.3.2 Comments (discordances with expected results, exclusions... for instance)

The laboratory F that reported some coagulated samples and leaks on some of them, had not analyzed four of the 24 samples, finding that the risk of cross contamination was too important. Its results have not been exploited.

The results of the reference method and the alternative method were in agreement for the 13 laboratories. The used confirmation tests were various.

### 3.4 Calculations

The results of 13 laboratories were considered.

*Note: the positive results of the alternative method were all confirmed.*

#### 3.4.1 Calculation of specificity percentage (%SP) and sensitivity percentage (%SE) for both methods

The percentages of specificity (SP) and sensitivity (SE) were calculated with the EN ISO 16140 formulas.

**For level L0**, it is requested that the specificity percentage (%SP) should be calculated using each of the methods:

$$SP = \{1 - (FP/N_-)\} \times 100$$

where FP, number of false positives  
N<sub>-</sub>, total number of tests L0

**For levels L1 and L2**, it is requested that the sensitivity percentage (%SE) should be calculated for each of the methods, compared with the number of expected positive results:

$$SE = (TP/N_+) \times 100$$

where TP, number of true positives  
N<sub>+</sub>, total number of tests L1 or L2

The results are given in the following table:

Level	Reference method		Alternative method	
	SP/SE	LCL* %	SP/SE	LCL* %
L0	SP% = 100	98	SP% = 100	98
L1	SE% = 100	98	SE% = 100	98
L2	SE% = 100	98	SE% = 100	98
L1+L2	SE% = 100	98	SE% = 100	98

\* LCL: low critical value, defined in standard ISO 16140

#### 3.4.2 Calculation of the relative precision (AC)

The relative precision is calculated using the following formula:

$$AC = \{(PA + NA) / N\} \times 100$$

where PA, number of positive agreements  
NA, number of negative agreements

NA, number of negative agreements

	Positive reference method (R+)	Negative reference method (R-)	Total
Positive alternative method (A+)	Positive agreement (A+/R+) PA = 208	Positive deviation (R-/A+) PD = 0	(N+) = 208
Negative alternative method (A-)	Negative deviation (A-/R+) ND = 0*	Negative agreement (A-/R-) NA = 104*	(N-) = 104
Total	(N+) = 208	(N-) = 104	N = 312

\* 0 unconfirmed OAA positive result

For this study, the relative accuracy is 100%.

#### 3.4.3 Analysis of discordances

As defined in appendix F in EN ISO 16140 standard, the minimum number of discordances beyond which a statistical test must be carried out to compare the two methods is 6. Therefore, this statistical test was not used because no discordance was observed between the two methods.

### 3.5 Interpretation

#### 3.5.1 Comparison of relative precision (AC), specificity (SP) and sensitivity (SE) values

The values obtained in the two parts of the validation study are given in the following table:

	Interlaboratory study	Comparative study
Relative accuracy (AC)	100 %	97,9 %
Sensitivity (SE)	100 %	97,3 %
Specificity (SP)	100 %	98,4 %

The values obtained following the interlaboratory study are comparable to the values obtained during the preliminary study.

#### 3.5.2 Accordance (DA)

The accordance is the percentage chance of finding the same result from two identical test portions analyzed in the same laboratory under repeatability conditions, in other words a single operator using the same instrument and the same reagents within the shortest feasible time interval.

The first step to calculate the accordance is to calculate the probability that two identical samples give the same result for each of the participating laboratories, and then to determine the average of the probabilities of all laboratories.

The different tables used to deduce the accordance are given in appendix F and the accordance for each of the methods at each of the levels are given in the following table:

Level	Reference method	Alternative method
L0	DA % = 100 %	DA % = 100 %
L1	DA % = 100 %	DA % = 100 %
L2	DA % = 100 %	DA % = 100 %

#### 3.5.3 Concordance

The concordance is the percentage chance of finding the same result for two identical samples analyzed in two different laboratories.

The objective is to calculate the percentage of all pairs giving the same results on all possible pairs of results.

Result tables used to make these calculations are given in appendix G and the concordance for each of the methods and for each of the levels are given in the following table:

Level	Reference method	Alternative method
L0	Concordance % = 100 %	Concordance % = 100 %
L1	Concordance % = 100 %	Concordance % = 100 %
L2	Concordance % = 100 %	Concordance % = 100 %

#### 3.5.4 Odds Ratio (COR)

The concordance odds ratio is calculated using the following formula:

$$\text{COR} = \frac{\text{accordance} \times (100 - \text{concordance})}{\text{concordance} \times (100 - \text{accordance})}$$

The concordance odds ratio for each of the methods and for each of the levels is given in the following table:

Level	Reference method	Alternative method
L0	COR % = 1.00	COR % = 1.00
L1	COR % = 1.00	COR % = 1.00
L2	COR % = 1.00	COR % = 1.00

A value of 1.00 for the Odds ratio means that the degree of agreement and the agreement are equal. When the Odds ratio increases, the interlaboratory variation becomes more predominant.

## 4 Practicability

Practicability was studied according to the 13 criteria defined by the AFNOR technical board, comparing the EN ISO 11290 reference method to the OAA method.

1. <i>Packaging mode of the components of the method (see package insert)</i> 2. <i>Reagent volumes (see package insert and vial packaging)</i>	The prepared Petri plates are packed in a box set of 2 x 10 plates or 10 x 10 plates of $\varnothing$ 90 mm.
3. <i>Storage conditions of the components (see package insert) – Expiry of products not opened (see package insert)</i>	The storage temperature is between +2°C and +8°C, in the dark.
4. <i>Modalities of use after first use (see package insert)</i>	Out of the box, plates can be stored for 2 weeks at 2-8°C in the cellophane sachet
5. <i>Equipment or necessary specific premises (see package insert)</i>	Among the required equipment, - an air incubator at 30°C $\pm$ 1°C - an air incubator at 37°C $\pm$ 1°C
6. <i>Reagents ready for use or to be reconstituted (see package insert)</i>	/
7. <i>Duration of training of the operator not familiar with the method</i>	Less than 1 day.

### 8. Real time handling - Flexibility of the technique relative to the number of samples to be analyzed

Steps	Average time for a sample (min)	
	Standard ISO 11290-1	OAA method
Preparation, weighing, dilution in half Fraser and stomaching	7	7
Transfer to selective Fraser broth	1	/
Streaking of Half Fraser and Fraser broths, on two selective media	2	/
Streaking of 100 $\mu$ l on chrom'ID Ottaviani Agosti agar	/	1
Plates reading and colonies selection for identification	2	1
<b>Average total time (per sample)</b>	<b>12 minutes</b>	<b>9 minutes</b>

In the case of positive samples, the necessary time for confirmation must be added.  
And the average time for the confirmation of a typical colony by reference method tests can be evaluated at around 5 minutes.

9. Time-to-result

<b>Steps</b>	<b>Time required ISO 11290-1 reference method</b>	<b>Time required OAA method</b>
Realization of first enrichment (Half Fraser)	D0	D0
Transfer to selective broths (Fraser)	D1	/
Streaking of 10 µl on selective plates	D1 and D3	
Streaking of 100µl on chrom'ID Ottaviani Agosti agar		D1
<b>Obtaining negative result</b>	<b>D5</b>	<b>D2</b>
<b>Confirmation tests :</b>		
<b>Genus</b>		
- streaking on TSAYE	D2 to D5	/ (D2 if necessary)
- GRAM stain, catalase	D3 to D6	D2
- Stab or streak on PALCAM plate		D2
<b>Specie <i>Listeria monocytogenes</i></b>		
- streaking on TSAYE	D2 to D5	/ (D2 if necessary)
- GRAM stain, catalase	D3 to D6	D2
- Camp-test, haemolysis, TSBYE broth	D3 to D6	D2
- Rhamnose and xylose fermentation	D4 to D7	D3 to D6
- API strip without purification		D2
- API strip after purification	D3	D3
- Accuprobe		D2
- RAPIDEC Lmono test		D2 to D3
<b>Obtaining positive results</b> or negative result after negative confirmation if done :		
<b>Genus</b>		
- after conventional tests (GRAM, catalase)	<b>D3 to D6</b>	<b>D2</b>
- after stabling or streaking on PALCAM plate		<b>D3</b>
<b>Specie <i>Listeria monocytogenes</i></b>		
- after conventional tests	<b>D9 to D12</b>	<b>D9</b>
- after API strip and associated tests if necessary	<b>D4</b>	<b>D3 to D4</b>
- after Accuprobe		<b>D2</b>
- after RAPIDEC Lmono test		<b>D2 to D3</b>

10. Type of qualification of the operator:	level identical to that necessary for the reference method
11. Steps common to the reference method	First step of enrichment in half Fraser
12. Traceability of the analysis results	/
13. Maintenance by the laboratory	/

## 5 Conclusion

The validation study was conducted according to the reference document EN ISO 16140.

The **comparative study** allows assessing:

- the relative accuracy, the relative sensitivity and the relative specificity,
- the relative detection level,
- the inclusivity and the exclusivity.

The performances were assessed for the detection of *Listeria monocytogenes* on one hand, and of *Listeria spp.* on the other hand.

The performances of the Ottaviani Agosti Agar – short protocol (OAA) method are equivalent to those of the reference method EN ISO 11290-1/A1:2004. They were determined by analysis of samples distributed over five categories of products.

### For the detection of *Listeria monocytogenes*:

- 1) The relative accuracy obtained was 97.9%, the relative sensitivity was 97.3% and the relative specificity was 98.4%, according to the calculations required by the EN ISO 16140 standard.  
Because the positive samples by the alternative method are positive confirmed samples, the sensitivities were recalculated relative to all positive results and are:
  - 98.0% for the reference method,
  - 97.4% for the alternative method.
- 2) The relative level of detection of the alternative method and of the reference method was evaluated by artificial contaminations of four different products, representative of the five categories tested.  
It is between 0.2 and 1.5 cells of *Listeria monocytogenes* per 25 g or mL of sample and the relative detection level of the reference method is between 0.2 and 1.3 cells of *Listeria monocytogenes* per 25 g or mL of sample.

### For the detection of *Listeria* other than *monocytogenes*:

- 1) The relative accuracy obtained was 97.9%, the relative sensitivity was 96.9% and the relative specificity was 98.9%, according to the calculations required by the EN ISO 16140 standard.  
Because the positive samples by the alternative method are positive confirmed samples, the sensitivities were recalculated relative to all positive results and are:
  - 98.8% for the reference method,
  - 96.9% for the alternative method.
- 2) The relative level of detection of the alternative method and of the reference method was evaluated by artificial contaminations of four different products, representative of the five categories tested.  
It is between 0.4 and 1.4 cells of *Listeria* per 25 g or mL of sample and is identical to the one obtained for the reference method.

The **inclusivity** of the method is good since all the strains of *Listeria* were detected.

62 strains of *Listeria* other than *monocytogenes*, including 29 *Listeria ivanovii*, and 153 strains of *Listeria monocytogenes* were tested and were all detected on chrom'ID Ottaviani Agosti agar.

For the **exclusivity**, among the 63 non-*Listeria* strains tested, some strains of *Bacillus* or *Enterococcus* gave blue colonies on the plates, but the confirmation tests are always negative. The same phenomenon is observed for the reference method.

The **interlaboratory study results** obtained for all of the 13 selected laboratories show that the alternative method and the reference method have comparable values of relative accuracy, specificity and sensitivity as those obtained during the preliminary study.

The variability of the alternative method (accordance, concordance, Odds ratio) is comparable with the variability of the reference method.

Lille, the 20th October 2009



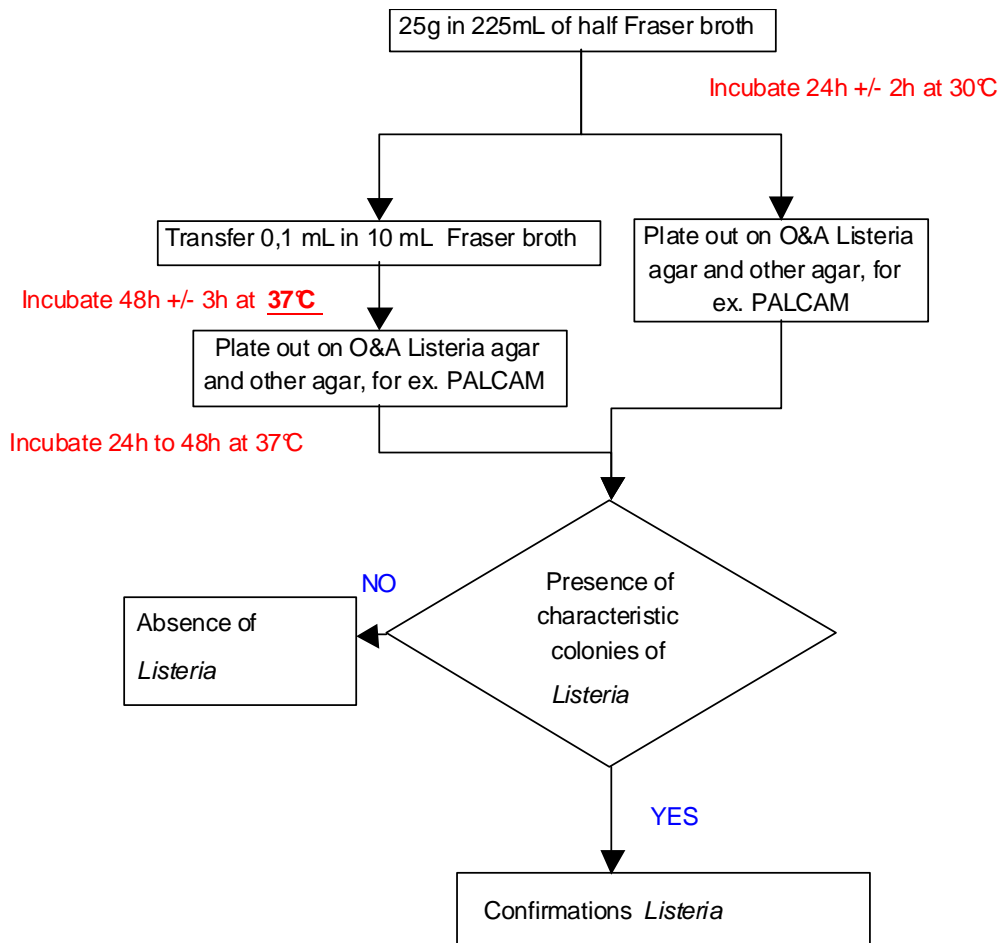
Virginie Ewe  
Technical manager

# APPENDICES

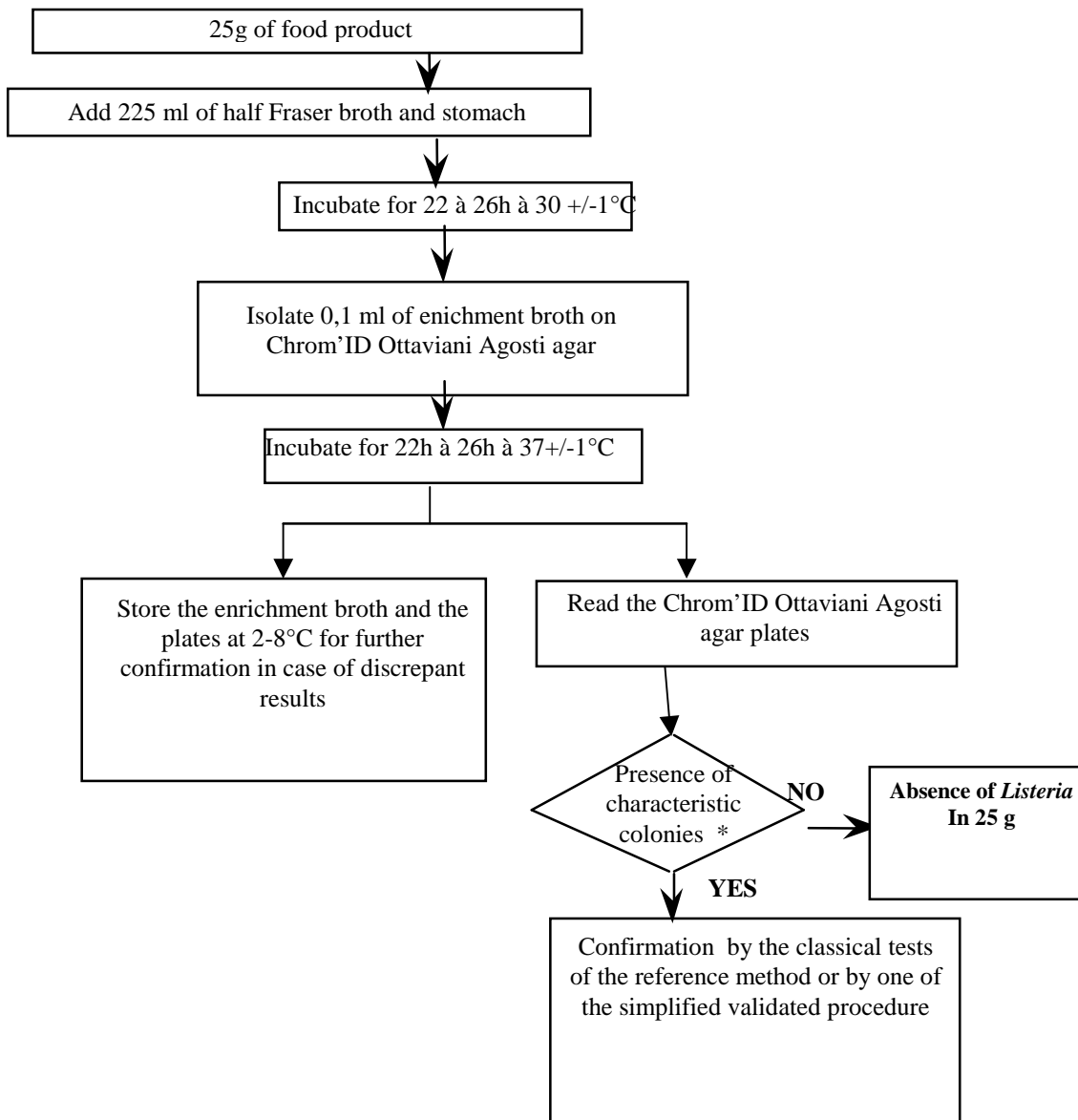
APPENDIX A :

ANALYTICAL PROTOCOLS

# EN ISO STANDARD 11290-1/A1: 2004 (#)



## Ottaviani Agosti Agar (OAA) METHOD (bioMerieux)



\* :

blue colonies with halos for *Listeria monocytogenes* and *Listeria ivanovii*

blue colonies bleues without halo for *Listeria* other than *monocytogenes* and *ivanovii*

APPENDIX B:

RELATIVE ACCURACY, RELATIVE SPECIFICITY,  
RELATIVE SENSITIVITY

-

DETAILED RESULTS TABLES  
FOR EACH SAMPLE CATEGORY  
*Listeria monocytogenes*

## **LEGEND**

### **Total bacteria growth**

∅ : no growth

L = low

M = medium

H = high

### **Distribution of flora**

A = pure culture of suspicious colonies

B = mix with a majority of suspicious colonies

C = mix with a minority of suspicious colonies

D = mix with rare suspicious colonies

E = absence of suspicious colonies

(x) : x characteristic colonies of *Listeria monocytogenes* if  $x \leq 5$

Meat products

Ref	Cat	Artif.C	Sample	Reference method EN ISO 11290-1 (#)						Alternative method										Comparison
				Fraser 1/2 (10µl)		Fraser		Identifications	Result	Fraser 1/2		Confirmations								
				P1	A1	P2	A2			100 µl		Haemolysis	CampT	Xyl.	Rham.	Api List	Accuprobe	VIDAS LMO2	Identifications	
										OAA	Rés.									
M11	PC	No	Brawn	+LD(1)	+LD	+HA	+HA	<i>L.monocytogenes</i>	+	+LB	+	+	S+R-	-	+	6510	+	0,90	<i>L.monocytogenes</i>	=
M12	PC	No	Brawn	+LA	+MA	+HA	+HA	<i>L.monocytogenes</i>	+	+MA	+	+	S+R-	-	+	6510	+	1,84	<i>L.monocytogenes</i>	=
M13	PC	No	Streaky brawn	+MA	+MB	+HA	+HB	<i>L.monocytogenes</i>	+	+HA	+	+	S+R-	-	+	6510	+	0,11	<i>L.monocytogenes</i>	=
N19	PC	No	Pork tongue in jelly	+MB	+LB	+HB	+HB	<i>L.monocytogenes</i>	+	+MB	+	+	S+R-	-	+	6510	+	0,21	<i>L.monocytogenes</i>	=
P15	PC	No	Salt bacon	+MB	+LB	+HB	+HB	<i>L.monocytogenes</i>	+	+MB**	+	+	S+R-	-	+	6510	+	1,50	<i>L.monocytogenes</i>	=
P16	PC	No	Breast	+MA	+LA	+HA	+HA	<i>L.monocytogenes</i>	+	+HA	+	+	S+R-	-	+	6510	+	3,03	<i>L.monocytogenes</i>	=
P20	PC	No	Bacon	+MB	+LB	+HB	+HB	<i>L.monocytogenes</i>	+	+MB	+	+	S+R-	-	+	6510	+	0,94	<i>L.monocytogenes</i>	=
R1	PC	No	Various delicatessen	Ø	Ø	Ø	Ø	/	-	-LE	-	/	/	/	/	/	/	/	/	=
R4	PC	No	Ham sausage	+HA	+MA	+HA	+HB	<i>L.monocytogenes</i>	+	+MA	+	+	S+R-	-	+	6510	+	2,85	<i>L.monocytogenes</i>	=
R6	PC	No	Meat sausage	+MA	+MA	+HA	+HB	<i>L.monocytogenes</i>	+	+MA	+	+	S+R-	-	+	6510	+	2,61	<i>L.monocytogenes</i>	=
R9	PC	No	Ham	+MA	+LA	+HA	+HA	<i>L.monocytogenes</i>	+	+MA	+	+	S+R-	-	+	6510	+	1,78	<i>L.monocytogenes</i>	=
R12	PC	No	Salami	Ø	Ø	Ø	Ø	/	-	-LE	-	/	/	/	/	/	/	/	/	=
V19	PC	No	Parma ham	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	=
X11	PC	No	Brawn	+LA	+LA	+HA	+HA	<i>L.monocytogenes</i>	+	+MA	+	+	S+R-	-	+	6510	+	2,99	<i>L.monocytogenes</i>	=
Y1	PC	No	Horse sausage	+LB	+LB	+HB	+HB	<i>L.monocytogenes</i>	+	+MB	+	+	S+R-	-	+	6510	+	0,49	<i>L.monocytogenes</i>	=
Y2	PC	No	White ham	+LA	+MA	+HA	+HA	<i>L.monocytogenes</i>	+	+MB	+	+	S+R-	-	+	6510	+	2,67	<i>L.monocytogenes</i>	=
Y4	PC	No	Saucisson	Ø	Ø	Ø	Ø	/	-	-LE	-	/	/	/	/	/	/	/	/	=
Y5	PC	No	Merguez	Ø	-LE	Ø	Ø	/	-	-LE	-	/	/	/	/	/	/	/	/	=
Y6	PC	No	Tongue	+MA	+MA	+MB	+HA	<i>L.monocytogenes</i>	+	+MA	+	+	S+R-	-	+	6510	+	2,71	<i>L.monocytogenes</i>	=
Z7	PC	No	Dust rillettes	+MA	+MA	+MA	+MA	<i>L.monocytogenes</i>	+	+MA	+	+	S+R-	-	+	6510	+	2,85	<i>L.monocytogenes</i>	=
Z8	PC	No	White ham	-LE(2)	Ø	Ø	Ø	/	-	+LA(1)**	+	+	S+R-	-	+	6510	+	2,66	<i>L.monocytogenes</i>	PS
Z9	PC	No	Bacon	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	=
Z10	PC	No	Bacon	-LE(2)	-LE	+HB	-HE	<i>L.innocua</i>	-	-LE	-	/	/	/	/	/	/	/	/	=
41	PC	No	Bacon	-LE	-LE	-La	-ME	<i>L.welshimeri (5)</i>	-	-LE	-	/	/	/	/	/	/	/	/	=
59	PC	No	Brawn	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	=
60	PC	No	Bacon	+LD	-LE	+HA	-ME	<i>L.monocytogenes</i>	+	+MD	+	+	S+R-	-	+	6510	+	0,27	<i>L.monocytogenes</i>	=
N4	PC	No	Duck breast	+HB	+HB	+HB	+HB	<i>L.monocytogenes</i>	+	+MB	+	+	S+R-	-	+	6510	+	0,98	<i>L.monocytogenes</i>	=
N12	PC	No	Duck breast	+LA	-LE	+HA	-HE	<i>L.welshimeri</i>	-	Ø	-	/	/	/	/	/	/	/	/	=
N13	PC	No	Duck breast	+MB	+MB	+HB	+MB	<i>L.monocytogenes</i>	+	+MB	+	+	S+R-	-	+	6510	+	0,29	<i>L.monocytogenes</i>	=
P17	PC	No	Beef meat	Ø	Ø	Ø	Ø	/	-	-HE	-	/	/	/	/	/	/	/	/	=
P18	PC	No	Pork meat	+LB	+LA	+HB	+HA	<i>L.monocytogenes</i>	+	+MB**	+	+	S+R-	-	+	6510	+	2,89	<i>L.monocytogenes</i>	=
P19	PC	No	Pork kidneys	+MB	+MB	+HB	+HB	<i>L.monocytogenes</i>	+	+MB	+	+	S+R-	-	+	6510	+	1,54	<i>L.monocytogenes</i>	=
P21	PC	No	Chicken legs	+MA	-ME	+HA	-HE	<i>L.spp</i>	-	-HE	-	/	/	/	/	/	/	/	/	=
R2	PC	No	Beef minced meat	+LA	+LA	+HA	+HA	<i>L.monocytogenes</i>	+	+MA	+	+	S+R-	-	+	6510	+	1,50	<i>L.monocytogenes</i>	=
R3	PC	No	Horse minced meat	Ø	-LE	Ø	Ø	/	-	-LE	-	/	/	/	/	/	/	/	/	=
R5	PC	No	Horse minced meat	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	=
R8	PC	No	Horse meat	Ø	Ø	Ø	-LE	/	-	+LC**	+	+	S+R-	-	+	6510	+	0,18	<i>L.monocytogenes</i>	PS
R11	PC	No	Turkey meat	+LA	+LC	+HA	-HA	<i>L.monocytogenes</i>	+	+LB	+	+	S+R-	-	+	6510	+	1,65	<i>L.monocytogenes</i>	=
R13	PC	No	Frozen ground beef	+LA	Ø	+HA	-ME	<i>L.spp</i>	-	-LE	-	/	/	/	/	/	/	/	/	=
V21	PC	No	Frozen beef balls	Ø	Ø	Ø	Ø	/	-	-ME	-	/	/	/	/	/	/	/	/	=
V22	PC	No	Ground beef	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	=
X12	PC	No	Chicken legs	Ø	Ø	Ø	Ø	/	-	-LE	-	/	/	/	/	/	/	/	/	=
Y8	PC	No	Chicken meat	+MB	+MB	+HB	+MC	<i>L.monocytogenes</i>	+	+MB	+	+	S+R-	-	+	6510	+	1,28	<i>L.monocytogenes</i>	=
Y9	PC	No	Beef meat	-LE	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	=
Z12	PC	No	Ground beef	Ø	Ø	-HE	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	=
Z13	PC	No	Ground beef	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	=
17	PC	No	Ground beef	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	=
20	PC	No	Chicken legs	+LA	Ø	+HA	+MA	<i>L.monocytogenes</i>	+	+LA	+	+	S+R-	-	+	6510	+	2,90	<i>L.monocytogenes</i>	=
21	PC	No	Horse minced meat	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	=
28	PC	No	Chicken legs	+LA	+LA	+MA	+MA	<i>L.monocytogenes</i>	+	+MA	+	+	S+R-	-	+	6510	+	2,97	<i>L.monocytogenes</i>	=
34	PC	No	Minced beef meat	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	=
35	PC	No	Minced beef meat	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	=
54	PC	No	Chicken meat	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	=
58	PC	No	Ground beef	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	=
63	PC	No	Minced meat	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	=
64	PC	No	Beef balls	Ø	-LE	Ø	Ø	/	-	-LE	-	/	/	/	/	/	/	/	/	=

**Meat products**

Ref	Cat	Artif.C	Sample	Reference method EN ISO 11290-1 (#)						Alternative method										Comparison	
				Fraser 1/2 (10µl)		Fraser		Identifications	Result	Fraser 1/2		Confirmations									
				P1	A1	P2	A2			100 µl		Haemolysis	CampT	Xyl.	Rham.	Api List	Accuprobe	VIDAS LMO2	Identifications		
				OAA	Rés.																
R7	PC	No	Bolognese minced meat	+LA	-LE	+HA	-ME	<i>L.spp</i>	-	-ME	-	/	/	/	/	/	/	/	/	/	=
P22	PC	No	Bolognese minced meat	+LA	-LE	+HB	-HE	<i>L.spp</i>	-	-ME	-	/	/	/	/	/	/	/	/	/	=
R10	PC	No	Merguez	+LA	+LC	+HB	+MC	<i>L.monocytogenes</i>	+	+LC	+	+	S+R-	-	+	6510	+	1,01	<i>L.monocytogenes</i>	=	
R14	PC	No	Sausages	+HA	+MA	+HA	+MA	<i>L.monocytogenes</i>	+	+HA	+	+	S+R-	-	+	6510	+	2,20	<i>L.monocytogenes</i>	=	
R15	PC	No	Bolognese minced meat	+LB	-LE	+HB	-ME	<i>L.welshimeri</i>	-	-ME	-	/	/	/	/	/	/	/	/	/	=
V20	PC	No	Rissolette of calf	Ø	Ø	Ø	Ø	/	-	-LE	-	/	/	/	/	/	/	/	/	/	=
V23	PC	No	Rissolette of calf	Ø	Ø	Ø	Ø	/	-	-ME	-	/	/	/	/	/	/	/	/	/	=
W3	PC	No	Burger with tomatoes	Ø	Ø	Ø	Ø	/	-	-ME	-	/	/	/	/	/	/	/	/	/	=
X14	PC	No	Beef tartare	+LA	+LA	+HA	+HA	<i>L.ivanovii</i>	-	+MB	-	++	S-R+	+	-	3370	-	0,00	<i>L.ivanovii</i>	=	
Y3	PC	No	Beef tartare	-LE	Ø	Ø	Ø	/	-	-LE	-	/	/	/	/	/	/	/	/	/	=
Y7	PC	No	Sausage	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	/	=
Y10	PC	No	Beef tartare	-LE	-LE	-ME	-LE	/	-	-ME	-	/	/	/	/	/	/	/	/	/	=
Y11	PC	No	Burger with onions	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	/	=
Z11	PC	No	Rissolette of calf	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	/	=
Z14	PC	No	Frozen chicken nuggets	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	/	=
18	PC	No	Breaded calf	+MA	-ME	+HA	-ME	<i>L.innocua</i>	-	-ME	-	/	/	/	/	/	/	/	/	/	=
29	PC	No	Paupiettes of turkey	+LA	-LA	+MA	-MC	<i>L.welshimeri</i>	-	+LD	+	+	S+R-	-	+	6510	+	0,66	<i>L.monocytogenes</i>	=	
37	PC	No	Thyme sausage	Ø	Ø	Ø	Ø	/	-	-LE	-	/	/	/	/	/	/	/	/	/	=
51	PC	No	Breaded calf	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	/	=
55	PC	No	Paupiettes of turkey	+LC	Ø	+MA	+MA	<i>L.monocytogenes</i>	+	+LA	+	+	S+R-	-	+	6510	+	2,57	<i>L.monocytogenes</i>	=	

Ref	Cat	Artif.C	Sample	Reference method EN ISO 11290-1 (#)						Alternative method										Comparison		
				Fraser 1/2 (10µl)		Fraser		Identifications	Result	Fraser 1/2		Confirmations										
				P1	A1	P2	A2			100 µl		Haemolysis	CampT	Xyl.	Rham.	Api List	Accuprobe	VIDAS LMO2	Identifications			
										OAA	Rés.											
P12	PL	No	Goat cheese (raw milk)	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	/	/	=
P13	PL	No	Goat cheese (raw milk)	+LC	Ø	Ø	Ø	/	-	-ME	-	/	/	/	/	/	/	/	/	/	/	=
R28	PL	No	Roquefort cheese	-ME	Ø	-ME	Ø	/	-	-LE	-	/	/	/	/	/	/	/	/	/	/	=
W6	PL	No	Goat cheese (raw milk)	-LE	Ø	Ø	Ø	/	-	-ME	-	/	/	/	/	/	/	/	/	/	/	=
W7	PL	No	Goat cheese (raw milk)	+LB	+LD	+HB	+HA	<i>L.monocytogenes</i>	+	+MD	+	+	S+R-	-	+	6510	+	0,70	<i>L.monocytogenes</i>	=		
W8	PL	No	Goat cheese (raw milk)	-LE	Ø	-ME	Ø	/	-	-ME	-	/	/	/	/	/	/	/	/	/	/	=
W11	PL	No	Goat cheese (raw milk)	-LE	Ø	Ø	Ø	/	-	-HE	-	/	/	/	/	/	/	/	/	/	/	=
W12	PL	No	Goat cheese (raw milk)	+LA	+LA	+HB	+MA	<i>L.monocytogenes</i>	+	+MA	+	+	S+R-	-	+	6510	+	2,80	<i>L.monocytogenes</i>	=		
X2	PL	No	Goat cheese (raw milk)	-LE	Ø	-LE	Ø	/	-	-LE	-	/	/	/	/	/	/	/	/	/	/	=
X5	PL	No	Goat cheese (raw milk)	-LE	Ø	Ø	Ø	/	-	-ME	-	/	/	/	/	/	/	/	/	/	/	=
X6	PL	No	Goat cheese (raw milk)	+MA	+MA	+HA	+HA	<i>L.monocytogenes</i>	+	+MA	+	+	S+R-	-	+	6510	+	2,81	<i>L.monocytogenes</i>	=		
Y12	PL	No	Goat cheese (raw milk)	Ø	Ø	-LE	Ø	/	-	-LE	-	/	/	/	/	/	/	/	/	/	/	=
Z15	PL	No	Ewe's raw milk cheese	-ME	Ø	+HA	+MA	<i>L.monocytogenes</i>	+	-LE**	-	/	/	/	/	/	-	0,00	/	/	/	FN
Z17	PL	No	Goat cheese (raw milk)	-LE(2)	Ø	+MA	+MA	<i>L.monocytogenes</i>	+	+LA	+	+	S+R-	-	+	6510	+	1,34	<i>L.monocytogenes</i>	=		
Z18	PL	No	Goat cheese (raw milk)	+LB	-LE	+HB	-HE	<i>L.innocua</i>	-	-ME	-	/	/	/	/	/	/	/	/	/	/	=
Z19	PL	No	Goat cheese (raw milk)	Ø	Ø	Ø	Ø	/	-	-ME	-	/	/	/	/	/	/	/	/	/	/	=
12	PL	No	Goat cheese (raw milk)	+LA	+LA	+HA	+MA	<i>L.monocytogenes</i>	+	+LA	+	+	S+R-	-	+	6510	+	3,07	<i>L.monocytogenes</i>	=		
13	PL	No	Goat cheese (raw milk)	+LA	+LA	+HA	+MA	<i>L.monocytogenes</i>	+	+LA	+	+	S+R-	-	+	6510	+	2,74	<i>L.monocytogenes</i>	=		
14	PL	No	Goat cheese (raw milk)	+LA	+LA	+HA	+HA	<i>L.monocytogenes</i>	+	+LA	+	+	S+R-	-	+	6510	+	2,61	<i>L.monocytogenes</i>	=		
38	PL	No	Goat cheese (raw milk)	Ø	Ø	+LA	-LE	<i>L.monocytogenes</i>	+	+LA	+	+	S+R-	-	+	6510	+	2,92	<i>L.monocytogenes</i>	=		
39	PL	No	Goat cheese (raw milk)	+LA	+LA	+MA	-LE	<i>L.monocytogenes</i>	+	+MA	+	+	S+R-	-	+	6510	+	2,83	<i>L.monocytogenes</i>	=		
40	PL	No	Goat cheese (raw milk)	Ø	Ø	Ø	Ø	/	-	-LE	-	/	/	/	/	/	/	/	/	/	/	=
42	PL	No	Goat cheese (raw milk)	+LB	-LE	+LA	+MA	<i>L.monocytogenes</i>	+	+MC	+	+	S+R-	-	+	6510	+	2,17	<i>L.monocytogenes</i>	=		
49	PL	No	Goat cheese (raw milk)	+LA	+LA	+MA	+MA	<i>L.monocytogenes</i>	+	+LB	+	+	S+R-	-	+	6510	+	2,87	<i>L.monocytogenes</i>	=		
52	PL	No	Goat cheese (raw milk)	+MB	+MA	+MA	+MA	<i>L.monocytogenes</i>	+	+MA	+	+	S+R-	-	+	6510	+	2,51	<i>L.monocytogenes</i>	=		
53	PL	No	Goat cheese (raw milk)	+LA	+LA	+MA	+MA	<i>L.monocytogenes</i> <i>*L.innocua (2)</i>	+	+MA	+	+	S+R-	-	+	6510	+	2,86	<i>L.monocytogenes</i>	=		
P11	PL	No	Maroilles cheese (raw milk)	Ø	Ø	Ø	Ø	/	-	-ME	-	/	/	/	/	/	/	/	/	/	/	=
P14	PL	No	Maroilles cheese (raw milk)	Ø	-LE	Ø	Ø	/	-	-ME	-	/	/	/	/	/	/	/	/	/	/	=
R29	PL	No	Camembert cheese (raw milk)	+MA	+MA	+HB	+HB	<i>L.monocytogenes</i>	+	+MA	+	+	S+R-	-	+	6510	+	1,50	<i>L.monocytogenes</i>	=		
R30	PL	No	Brie de Meaux cheese	+MC	+LC	+HA	+HC	<i>L.monocytogenes</i>	+	+MB	+	+	S+R-	-	+	6510	+	0,85	<i>L.monocytogenes</i>	=		
W9	PL	No	Epoisses cheese	Ø	-LE	Ø	Ø	/	-	-LE	-	/	/	/	/	/	/	/	/	/	/	=
W10	PL	No	Epoisses cheese	+HA	+HA	+HA	+HA	<i>L.monocytogenes</i>	+	+HA	+	+	S+R-	-	+	6510	+	3,13	<i>L.monocytogenes</i>	=		
W14	PL	No	Raw cow's milk cheese	+LB	+MA	+MB	+MB	<i>L.monocytogenes</i>	+	+MA	+	+	S+R-	-	+	6510	+	0,77	<i>L.monocytogenes</i>	=		
X3	PL	No	Raw cow's milk cheese	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	/	/	=
X4	PL	No	"Bergues" cheese (raw milk)	+LA	+MA	+HA	+HA	<i>L.monocytogenes</i>	+	+MA	+	+	S+R-	-	+	6510	+	2,99	<i>L.monocytogenes</i>	=		
X13	PL	No	Munster cheese (raw milk)	+LB	+LC	+HB	+HB	<i>L.monocytogenes</i>	+	+MB	+	+	S+R-	-	+	6510	+	0,78	<i>L.monocytogenes</i>	=		
Y13	PL	No	Raw cow's milk cheese	-ME	Ø	-ME	Ø	/	-	-ME	-	/	/	/	/	/	/	/	/	/	/	=
Z16	PL	No	Munster cheese (raw milk)	-LE(2)	-LE	-LE	Ø	/	-	-LE	-	/	/	/	/	/	/	/	/	/	/	=
Z20	PL	No	Raw cow's milk cheese	Ø	Ø	+HA	+HA	<i>L.monocytogenes</i>	+	+LB	+	+	S+R-	-	+	6510	+	2,42	<i>L.monocytogenes</i>	=		
24	PL	No	Raw cow's milk cheese	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	/	/	=
25	PL	No	Raw cow's milk cheese	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	/	/	=
36	PL	No	Raw cow's milk cheese	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	/	/	=
43	PL	No	Raw cow's milk cheese	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	/	/	=
56	PL	No	Raw cow's milk cheese	Ø	Ø	-LE	Ø	/	-	-LE	-	/	/	/	/	/	/	/	/	/	/	=

Ref	Cat	Artif.C	Sample	Reference method EN ISO 11290-1 (#)						Alternative method										Comparison	
				Fraser 1/2 (10µl)		Fraser		Identifications	Result	Fraser 1/2		Confirmations									
				P1	A1	P2	A2			100 µl		Haemolysis	CampT	Xyl.	Rham.	Api List	Accuprobe	VIDAS LMO2	Identifications		
										OAA	Rés.										
M20	PL	Yes	Raw milk	+MA	+MA	+HA	+HA	<i>L.monocytogenes</i>	+	+HB	+	+	S+R-	-	+	6510	+	0,54	<i>L.monocytogenes</i>	=	
M21	PL	Yes	Raw milk	+MA	+MB	+HA	+HB	<i>L.monocytogenes</i>	+	+HA	+	+	S+R-	-	+	6510	+	1,90	<i>L.monocytogenes</i>	=	
M22	PL	Yes	Raw milk	+MA	+MA	+HA	+HA	<i>L.monocytogenes</i>	+	+HA	+	+	S+R-	-	+	6510	+	1,25	<i>L.monocytogenes</i>	=	
M23	PL	Yes	Raw milk	+MA	+MA	+HA	+HA	<i>L.monocytogenes</i>	+	+HA	+	+	S+R-	-	+	6510	+	3,01	<i>L.monocytogenes</i>	=	
M24	PL	Yes	Raw milk	+MA	+MA	+HA	+HA	<i>L.monocytogenes</i>	+	+HA	+	+	S+R-	-	+	6510	+	1,75	<i>L.monocytogenes</i>	=	
O1	PL	No	Raw milk	-LE	-LE	Ø	Ø	/	-	-ME	-	/	/	/	/	/	/	/	/	/	=
O2	PL	No	Raw milk	-LE	-LE	Ø	Ø	/	-	-ME	-	/	/	/	/	/	/	/	/	/	=
O3	PL	No	Raw milk	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	/	=
O4	PL	No	Raw milk	Ø	Ø	Ø	Ø	/	-	-LE	-	/	/	/	/	/	/	/	/	/	=
O5	PL	No	Raw milk	Ø	Ø	Ø	Ø	/	-	-LE	-	/	/	/	/	/	/	/	/	/	=
N1	PL	No	Raw milk	Ø	Ø	-LE	-LE	/	-	-LE	-	/	/	/	/	/	/	/	/	/	=
P9	PL	No	Raw milk	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	/	=
P10	PL	No	Raw milk	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	/	=
V15	PL	No	Chocolate profiteroles	+MB	+MB	+HB	+MB	<i>L.monocytogenes</i>	+	+MB	+	+	S+R-	-	+	6510	+	2,52	<i>L.monocytogenes</i>	=	
Y14	PL	No	Chocolate profiteroles	+MA	+MA	+HA	+HA	<i>L.monocytogenes</i>	+	+MA	+	+	S+R-	-	+	6510	+	1,20	<i>L.monocytogenes</i>	=	
W4	PL	No	Tart	+MA	+MA	+HB	+HB	<i>L.monocytogenes</i>	+	+MA	+	+	S+R-	-	+	6510	+	3,00	<i>L.monocytogenes</i>	=	
W5	PL	No	Bun with whipped cream	+HB	+HA	+MB	+MB	<i>L.monocytogenes</i>	+	+HA	+	+	S+R-	-	+	6510	+	2,99	<i>L.monocytogenes</i>	=	

Seafood products

Ref	Cat	Artif.C	Sample	Reference method EN ISO 11290-1 (#)						Alternative method										Comparison		
				Fraser 1/2 (10µl)		Fraser		Identifications	Result	Fraser 1/2		Confirmations										
				P1	A1	P2	A2			100 µl		Haemolysis	CampT	Xyl.	Rham.	Api List	Accuprobe	VIDAS LMO2	Identifications			
										OAA	Rés.											
N2	PP	No	Haddock fillet	+LB	-LE	+HA	-ME	<i>L.spp</i>	-	-ME	-	/	/	/	/	/	/	/	/	/	/	=
N3	PP	No	Cutlass fish fillet	Ø	-LE	-LE	Ø	/	-	-ME	-	/	/	/	/	/	/	/	/	/	/	=
P2	PP	No	Herring fillet	+MA	+LA	+HA	+MA	<i>L.monocytogenes</i>	+	+MA	+	+	S+R-	-	+	6510	+	1,99		<i>L.monocytogenes</i>	=	
P5	PP	No	Salmon fillet	+MA	+MA	+HB	+HB	<i>L.monocytogenes</i>	+	+HA	+	+	S+R-	-	+	6510	+	2,41		<i>L.monocytogenes</i>	=	
P6	PP	No	Halibut fillet	+MA	+MA	+HB	+HB	<i>L.monocytogenes</i>	+	+MA	+	+	S+R-	-	+	6510	+	2,56		<i>L.monocytogenes</i>	=	
P7	PP	No	Haddock fillet	+MB	+LB	+HB	+HC	<i>L.monocytogenes</i>	+	+MB	+	+	S+R-	-	+	6510	+	1,42		<i>L.monocytogenes</i>	=	
P8	PP	No	Cod fillet	Ø	Ø	Ø	Ø	/	-	-LE	-	/	/	/	/	/	/	/	/	/	=	
S9	PP	No	Salmon fillet	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	/	=	
T1	PP	No	Salmon steak	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	/	=	
T2	PP	No	Fish fillet	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	/	=	
T3	PP	No	Salmon fillet	+MB	-LE	+LB	-LE	<i>L.welshimeri</i>	-	-ME	-	/	/	/	/	/	/	/	/	/	=	
T4	PP	No	Salmon fillet	+LB	-LE	+LB	-LE	<i>L.welshimeri</i>	-	-ME	-	/	/	/	/	/	/	/	/	/	=	
T5	PP	No	Salmon fillet	+MB	-LE	+LB	-LE	<i>L.welshimeri</i>	-	-ME	-	/	/	/	/	/	/	/	/	/	=	
T9	PP	No	Salmon	+MB	-ME	+HA	-HE	<i>L.innocua</i>	-	-ME	-	/	/	/	/	/	/	/	/	/	=	
T10	PP	No	Salmon steak	-ME	Ø	-LE	Ø	/	-	-ME	-	/	/	/	/	/	/	/	/	/	=	
T11	PP	No	Salmon	-LE	Ø	Ø	Ø	/	-	-ME	-	/	/	/	/	/	/	/	/	/	=	
X10	PP	No	Salmon tartar	+LA(2)	+LA(2)	+HA	+HA	<i>L.monocytogenes</i>	+	+LA	+	+	S+R-	-	+	6510	+	2,50		<i>L.monocytogenes</i>	=	
Z2	PP	No	Salmon tartar	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	/	=	
Z5	PP	No	Salmon tartar	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	/	=	
Z7	PP	No	Salmon fillet	Ø	Ø	+HA	+MA	<i>L.monocytogenes</i>	+	+LA	+	+	S+R-	-	+	6510	+	2,37		<i>L.monocytogenes</i>	=	
33	PP	No	Salmon tartar	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	/	=	
44	PP	No	Salmon tartar	Ø	+LA	+HA	+MA	<i>L.monocytogenes</i>	+	+LC	+	+	S+R-	-	+	6510	+	2,54		<i>L.monocytogenes</i>	=	
48	PP	No	Salmon tartar	Ø	Ø	+MA	+MA	<i>L.monocytogenes</i>	+	+LA	+	+	S+R-	-	+	6510	+	2,40		<i>L.monocytogenes</i>	=	
P1	PP	No	Fish with "bordelaise" sauce	+HA	+HA	+HB	+HB	<i>L.monocytogenes</i>	+	+HA	+	+	S+R-	-	+	6510	+	2,15		<i>L.monocytogenes</i>	=	
P3	PP	No	Fish with "bordelaise" sauce	+MA	+MA	+MB	+MB	<i>L.monocytogenes</i>	+	+HA	+	+	S+R-	-	+	6510	+	2,86		<i>L.monocytogenes</i>	=	
S2	PP	No	White fish skewer	+LB	+LB	+HB	+HB	<i>L.monocytogenes</i> <i>L.innocua</i>	+	+LB**	+	+	S+R-	-	+	6510	+	0,74		<i>L.monocytogenes</i>	=	
S5	PP	No	White fish skewer	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	/	=	
S6	PP	No	Salmon yarrow	+LA	+LA(4)	+HB	+HB	<i>L.monocytogenes</i>	+	+LB	+	+	S+R-	-	+	6510	+	1,08		<i>L.monocytogenes</i>	=	
S7	PP	No	Salmon yarrow	Ø	Ø	Ø	Ø	/	-	-ME	-	/	/	/	/	/	/	/	/	/	=	
S8	PP	No	salmon paupiettes	+LA(1)	+LA(1)	+HA	+HA	<i>L.monocytogenes</i>	+	+LA(1)**	+	+	S+R-	-	+	6510	+	2,63		<i>L.monocytogenes</i>	=	
O6	PP	No	Cooked shrimps	Ø	Ø	Ø	Ø	/	-	-ME	-	/	/	/	/	/	/	/	/	/	=	
O7	PP	No	Cooked shrimps	Ø	Ø	-ME	-ME	/	-	-LE	-	/	/	/	/	/	/	/	/	/	=	
O8	PP	No	Frozen peeled shrimps	Ø	Ø	-ME	-ME	/	-	-LE	-	/	/	/	/	/	/	/	/	/	=	
O9	PP	No	Frozen peeled shrimps	Ø	Ø	-ME	-ME	/	-	-LE	-	/	/	/	/	/	/	/	/	/	=	
O10	PP	No	Gray shrimps	Ø	Ø	Ø	Ø	/	-	-ME	-	/	/	/	/	/	/	/	/	/	=	
W1	PP	No	Gray shrimps	+LA	+LB	+HB	+MB	<i>L.monocytogenes</i>	+	+MB	+	+	S+R-	-	+	6510	+	2,98		<i>L.monocytogenes</i>	=	
W2	PP	No	Sweet herring fillet	-LE	Ø	+HA	+MA	<i>L.monocytogenes</i>	+	+MC	+	+	S+R-	-	+	6510	+	2,24		<i>L.monocytogenes</i>	=	
X7	PP	No	Marinated herring fillets	Ø	Ø	Ø	Ø	/	-	-ME	-	/	/	/	/	/	/	/	/	/	=	
X8	PP	No	Marinated herring fillets	Ø	Ø	Ø	Ø	/	-	-ME	-	/	/	/	/	/	/	/	/	/	=	
X9	PP	No	Salmon tartar	+LA	+LA	+HA	+HA	<i>L.monocytogenes</i>	+	+MA	+	+	S+R-	-	+	6510	+	2,93		<i>L.monocytogenes</i>	=	
Z3	PP	No	Marinated herring fillets	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	/	=	
Z6	PP	No	Cooked shrimps	+LB	+LB	+MB	+MB	<i>L.monocytogenes</i>	+	+MB	+	+	S+R-	-	+	6510	+	2,72		<i>L.monocytogenes</i>	=	
45	PP	No	Herring fillet	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	/	=	

Ref	Cat	Artif.C	Sample	Reference method EN ISO 11290-1 (#)						Alternative method										Comparison
				Fraser 1/2 (10µl)		Fraser		Identifications	Result	Fraser 1/2		Confirmations								
				P1	A1	P2	A2			100 µl		Haemolysis	CampT	Xyl.	Rham.	Api List	Accuprobe	VIDAS LMO2	Identifications	
										OAA	Rés.									
P4	PP	No	Smoked salmon	+LA	+MA	+HA	+HA	<i>L.monocytogenes</i>	+	+MA	+	+	S+R-	-	+	6510	+	2,23	<i>L.monocytogenes</i>	=
V24	PP	No	Smoked salmon	+LA(5)	Ø	+MB	+MB	<i>L.monocytogenes</i>	+	+LA	+	+	S+R-	-	+	6510	+	2,36	<i>L.monocytogenes</i>	=
Z1	PP	No	Smoked salmon from Norway	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	=
Z4	PP	No	Smoked tuna	+LB	+LA	+MA	+MA	<i>L.monocytogenes</i>	+	+MA	+	+	S+R-	-	+	6510	+	2,70	<i>L.monocytogenes</i>	=
16	PP	No	Smoked salmon	+MA	+MA	+HA	+HA	<i>L.monocytogenes</i>	+	+MA	+	+	S+R-	-	+	6510	+	2,65	<i>L.monocytogenes</i>	=
19	PP	No	Smoked salmon	+MA	+MA	+LA	+MA	<i>L.monocytogenes</i>	+	+MA	+	+	S+R-	-	+	6510	+	2,77	<i>L.monocytogenes</i>	=
22	PP	No	Smoked salmon	Ø	+LA	+HA	+HA	<i>L.monocytogenes</i>	+	+LB	+	+	S+R-	-	+	6510	+	0,90	<i>L.monocytogenes</i>	=
23	PP	No	Smoked salmon	Ø	Ø	Ø	Ø	/	-	-LE	-	/	/	/	/	/	/	/	/	=
26	PP	No	Smoked fish fillet	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	=
30	PP	No	Smoked fish fillet	Ø	Ø	+HA	+MA	<i>L.monocytogenes</i>	+	Ø	-	/	/	/	/	/	/	/	/	FN
31	PP	No	Smoked salmon	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	=
32	PP	No	Smoked salmon	+MA	+MA	+LA	+LA	<i>L.monocytogenes</i>	+	+MA	+	+	S+R-	-	+	6510	+	2,99	<i>L.monocytogenes</i>	=
46	PP	No	Smoked salmon	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	=
47	PP	No	Smoked fish fillet	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	=
50	PP	No	Smoked salmon	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	=
57	PP	No	Smoked salmon	Ø	Ø	+MA	+MA	<i>L.monocytogenes</i>	+	+LA	+	+	S+R-	-	+	6510	+	1,71	<i>L.monocytogenes</i>	=
61	PP	No	Smoked salmon	+LA	+LA	+HB	+HA	<i>L.monocytogenes</i>	+	+LA	+	+	S+R-	-	+	6510	+	2,46	<i>L.monocytogenes</i>	=
62	PP	No	Smoked salmon	+LA	+MA	+HA	+MA	<i>L.monocytogenes</i>	+	+MA	+	+	S+R-	-	+	6510	+	2,71	<i>L.monocytogenes</i>	=
65	PP	No	Smoked salmon	+LA	+LA	+HA	+HA	<i>L.monocytogenes</i>	+	+MA	+	+	S+R-	-	+	6510	+	2,50	<i>L.monocytogenes</i>	=
66	PP	No	Smoked salmon	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	=
67	PP	No	Smoked salmon	+MA	+MA	+HA	+HA	<i>L.monocytogenes</i>	+	+MA	+	+	S+R-	-	+	6510	+	2,32	<i>L.monocytogenes</i>	=
68	PP	No	Smoked trout	+HA	+MA	+HA	+HA	<i>L.monocytogenes</i>	+	+HA	+	+	S+R-	-	+	6510	+	2,44	<i>L.monocytogenes</i>	=

Ref	Cat	Artif.C	Sample	Reference method EN ISO 11290-1 (#)						Alternative method										Comparison
				Fraser 1/2 (10µl)		Fraser		Identifications	Result	Fraser 1/2		Confirmations								
				P1	A1	P2	A2			100 µl		Haemolysis	CampT	Xyl.	Rham.	Api List	Accuprobe	VIDAS LMO2	Identifications	
										OAA	Rés.									
M1	PV	Yes	Mashed spinashes	+MA	+MA	+HA	+HA	<i>L.monocytogenes</i>	+	+HA	+	+	S+R-	-	+	6510	+	1,92	<i>L.monocytogenes</i>	=
M3	PV	Yes	Vegetables soup	+MA	+MA	+HA	+HA	<i>L.monocytogenes</i>	+	+HA	+	+	S+R-	-	+	6510	+	2,32	<i>L.monocytogenes</i>	=
M4	PV	Yes	Tomatoes	+MA	+MA	+HA	+HA	<i>L.monocytogenes</i>	+	+HA	+	+	S+R-	-	+	6510	+	2,29	<i>L.monocytogenes</i>	=
M8	PV	Yes	Mashed vegetables	+HA	+MA	+HA	+HA	<i>L.monocytogenes</i>	+	+HA	+	+	S+R-	-	+	6510	+	1,33	<i>L.monocytogenes</i>	=
M10	PV	Yes	Mashed spinashes	+HA	+MA	+HA	+HA	<i>L.monocytogenes</i>	+	+MA	+	+	S+R-	-	+	6510	+	1,45	<i>L.monocytogenes</i>	=
N6	PV	No	Lentils salad	-LE	-ME	Ø	Ø	/	-	-ME	-	/	/	/	/	/	/	/	/	=
N7	PV	No	Vegetables pan fry	Ø	-LE	-ME	-ME	/	-	-ME	-	/	/	/	/	/	/	/	/	=
N9	PV	No	Couscous semolina and tomatoes	+MB	-LE	+MB	-ME	/	-	-ME	-	/	/	/	/	/	/	/	/	=
N10	PV	No	Cooked cauliflower	Ø	Ø	Ø	Ø	/	-	-LE	-	/	/	/	/	/	/	/	/	=
N18	PV	No	Cooked cabbage	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	=
P23	PV	No	Tabbouleh	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	=
P24	PV	No	Mixed vegetabes	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	=
P25	PV	No	Cantonese rice	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	=
R17	PV	Yes	Fruits salad	Ø	Ø	Ø	-LE	/	-	Ø	-	/	/	/	/	/	/	/	/	=
R19	PV	Yes	Mixed vegetabes	+LA	+LA	+HA	+HA	<i>L.monocytogenes</i>	+	+LA	+	+	S+R-	-	+	6510	+	0,73	<i>L.monocytogenes</i>	=
R23	PV	Yes	Mashed green beans	+MA	+MA	+HA	+MB	<i>L.monocytogenes</i>	+	+MA	+	+	S+R-	-	+	6510	+	1,44	<i>L.monocytogenes</i>	=
R24	PV	Yes	Tomatoes	Ø	-LE	Ø	Ø	/	-	-HE	-	/	/	/	/	/	/	/	/	=
R26	PV	Yes	Vegetables pan fry	+LA	+LB	+HB	+HA	<i>L.monocytogenes</i>	+	+LC	+	+	S+R-	-	+	6510	+	0,32	<i>L.monocytogenes</i>	=
R27	PV	Yes	Tabbouleh	+MA	+MA	+HA	+HB	<i>L.monocytogenes</i>	+	+MA	+	+	S+R-	-	+	6510	+	2,59	<i>L.monocytogenes</i>	=
S1	PV	No	Mashed spinashes	+LA	+LA	+HB	+HB	<i>L.monocytogenes</i>	+	+MB	+	+	S+R-	-	+	6510	+	1,43	<i>L.monocytogenes</i>	=
V18	PV	No	Rice with cooked vegetables	+MA	+MA	+MA	+MA	<i>L.monocytogenes</i>	+	+MA	+	+	S+R-	-	+	6510	+	2,57	<i>L.monocytogenes</i>	=
W13	PV	No	Vegetables pan fry	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	=
W16	PV	No	Cooked pasta	+LA	+LA	+MB	+MB	<i>L.monocytogenes</i>	+	+MA	+	+	S+R-	-	+	6510	+	2,95	<i>L.monocytogenes</i>	=
W18	PV	No	Zucchinis pan fry	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	=
Y16	PV	No	Cantonese rice	+MA	+HA	+MA	+HA	<i>L.monocytogenes</i>	+	+MA	+	+	S+R-	-	+	6510	+	2,73	<i>L.monocytogenes</i>	=
M5	PV	Yes	Beetroot	+HA	+HA	+HA	+HA	<i>L.monocytogenes</i>	+	+HA	+	+	S+R-	-	+	6510	+	2,11	<i>L.monocytogenes</i>	=
M6	PV	Yes	Mixed vegetabes	+MA	+MA	+HA	+HA	<i>L.monocytogenes</i>	+	+HA	+	+	S+R-	-	+	6510	+	1,96	<i>L.monocytogenes</i>	=
M7	PV	Yes	Green beans	+MA	+MA	+HA	+HA	<i>L.monocytogenes</i>	+	+HA	+	+	S+R-	-	+	6510	+	2,20	<i>L.monocytogenes</i>	=
M9	PV	Yes	Celery	+MA	+MA	+HA	+HA	<i>L.monocytogenes</i>	+	+HA	+	+	S+R-	-	+	6510	+	1,42	<i>L.monocytogenes</i>	=
N8	PV	No	Salad	+MB	-ME	+MB	-ME	<i>L.spp</i>	-	-HE	-	/	/	/	/	/	/	/	/	=
N15	PV	No	Grated carrots	-LE	Ø	-ME	Ø	/	-	-LE	-	/	/	/	/	/	/	/	/	=
N16	PV	No	Mashed potatoes and tomatoes	+LA	Ø	+LA	Ø	<i>L.spp</i>	-	-ME	-	/	/	/	/	/	/	/	/	=
N17	PV	No	Green beans	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	=
P26	PV	No	Broccoli	+MA	+MA	+HA	+MA	<i>L.monocytogenes</i>	+	+LA	+	+	S+R-	-	+	6510	+	2,36	<i>L.monocytogenes</i>	=
P27	PV	No	Pasta	+LB	+LA	+HA	+MA	<i>L.monocytogenes</i>	+	+HA	+	+	S+R-	-	+	6510	+	2,94	<i>L.monocytogenes</i>	=
P28	PV	No	Cauiflower	-LE	Ø	-ME	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	=
R16	PV	Yes	Salad	-ME	-LE	-ME	-LE	/	-	-ME	-	/	/	/	/	/	/	/	/	=
R18	PV	Yes	Vegetables for couscous	+MA	+LA	+HA	+HA	<i>L.monocytogenes</i>	+	+MA	+	+	S+R-	-	+	6510	+	1,47	<i>L.monocytogenes</i>	=
R21	PV	Yes	Carrots and celery	Ø	Ø	Ø	Ø	/	-	-ME	-	/	/	/	/	/	/	/	/	=
R22	PV	Yes	Grated celery	+LA	+LA	+HA	+HA	<i>L.monocytogenes</i>	+	+MA	+	+	S+R-	-	+	6510	+	1,36	<i>L.monocytogenes</i>	=
S3	PV	No	Mushrooms	-LE	-LE	-ME	-ME	/	-	-LE	-	/	/	/	/	/	/	/	/	=
S4	PV	No	Zucchinis and tomatoes	Ø	Ø	Ø	-ME	/	-	-LE	-	/	/	/	/	/	/	/	/	=
V16	PV	No	Mushrooms	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	=
W20	PV	No	Broccoli	Ø	Ø	Ø	Ø	/	-	-LE	-	/	/	/	/	/	/	/	/	=

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				Fraser 1/2 (10µl)		Fraser		Identifications	Result	Fraser 1/2		Confirmations									
				P1	A1	P2	A2			100 µl		Haemolysis	CampT	Xyl.	Rham.	Api List	Accuprobe	VIDAS LMO2	Identifications		
										OAA	Rés.										
M2	PV	Yes	Frozen cauliflower	+MA	+MA	+HA	+HA	<i>L.monocytogenes</i>	+	+HA	+	+	S+R-	-	+	6510	+	2,14	<i>L.monocytogenes</i>	=	
N5	PV	No	Frozen french fries	Ø	Ø	-LE	-LE	/	-	-LE	-	/	/	/	/	/	/	/	/	/	=
N11	PV	No	Frozen browned potatoes	+MA	+MA	+HB	+MA	<i>L.monocytogenes</i>	+	+MA	+	+	S+R-	-	+	6510	+	1,98	<i>L.monocytogenes</i>	=	
N14	PV	No	Frozen french fries	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	/	=
R20	PV	Yes	Frozen spinashes	+MA	+MA	+HA	+HA	<i>L.monocytogenes</i>	+	+MB	+	+	S+R-	-	+	6510	+	1,87	<i>L.monocytogenes</i>	=	
R25	PV	Yes	Frozen ratatouille	+MA	+LB	+HA	+HA	<i>L.monocytogenes</i>	+	+MA	+	+	S+R-	-	+	6510	+	1,90	<i>L.monocytogenes</i>	=	
V17	PV	No	Frozen browned potatoes	-LE	-LE	+MA	-ME	<i>L.innocua</i>	-	-LE	-	/	/	/	/	/	/	/	/	/	=
W15	PV	No	Frozen spinashes	+LB	+LA	+HB	+MB	<i>L.monocytogenes</i>	+	+MA	+	+	S+R-	-	+	6510	+	2,99	<i>L.monocytogenes</i>	=	
W17	PV	No	Frozen browned potatoes	+MB	+LA	+HB	+MB	<i>L.monocytogenes</i>	+	+MA	+	+	S+R-	-	+	6510	+	3,16	<i>L.monocytogenes</i>	=	
W19	PV	No	Frozen french fries	+MA	+MA	+MB	+HB	<i>L.monocytogenes</i>	+	+MA	+	+	S+R-	-	+	6510	+	3,09	<i>L.monocytogenes</i>	=	
X1	PV	No	Frozen browned potatoes	Ø	Ø	Ø	Ø	/	-	-LE	-	/	/	/	/	/	/	/	/	/	=
Y15	PV	No	Frozen browned potatoes	+LB	+LA	+MA	+HA	<i>L.monocytogenes</i>	+	+MB	+	+	S+R-	-	+	6510	+	2,95	<i>L.monocytogenes</i>	=	
Y17	PV	No	Frozen french fries	Ø	Ø	Ø	Ø	/	-	-LE	-	/	/	/	/	/	/	/	/	/	=
Y18	PV	No	Frozen browned potatoes	Ø	Ø	Ø	Ø	/	-	-ME	-	/	/	/	/	/	/	/	/	/	=
Y19	PV	No	Frozen spinashes with cream	Ø	Ø	-LE	Ø	/	-	-LE	-	/	/	/	/	/	/	/	/	/	=
Y20	PV	No	Frozen french fries	-ME	+LA	+MA	+MA	<i>L.monocytogenes</i>	+	+MA	+	+	S+R-	-	+	6510	+	3,04	<i>L.monocytogenes</i>	=	
15	PV	No	Frozen browned potatoes	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	/	=

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				Fraser 1/2 (10µl)		Fraser		Identifications	Result	Fraser 1/2		Confirmations								
				P1	A1	P2	A2			100 µl		Haemolysis	CampT	Xyl.	Rham.	Api List	Accuprobe	VIDAS LMO2	Identifications	
				OAA	Rés.															
M14	EN	Yes	New water for mushrooms washing	+MA	+MA	+HA	+HA	<i>L.monocytogenes</i>	+	+HA	+	+	S+R-	-	+	6510	+	1,35	<i>L.monocytogenes</i>	=
M15	EN	Yes	Prewashing water for mushrooms	+MA	+MA	+HA	+HA	<i>L.monocytogenes</i>	+	+HA	+	+	S+R-	-	+	6510	+	1,78	<i>L.monocytogenes</i>	=
M16	EN	Yes	Rinsing water	+LA	+LA	+HA	+HA	<i>L.monocytogenes</i>	+	+MA	+	+	S+R-	-	+	6510	+	1,56	<i>L.monocytogenes</i>	=
M17	EN	Yes	New water for vegetables washing	+LA	+MA	+HA	+HA	<i>L.monocytogenes</i>	+	+HA	+	+	S+R-	-	+	6510	+	1,06	<i>L.monocytogenes</i>	=
M18	EN	Yes	Prewashing water for vegetables	+MA	+MA	+HA	+HA	<i>L.monocytogenes</i>	+	+HA	+	+	S+R-	-	+	6510	+	2,08	<i>L.monocytogenes</i>	=
M19	EN	Yes	Rinsing water for vegetables	+LA	+MA	+HA	+HA	<i>L.monocytogenes</i>	+	+MA	+	+	S+R-	-	+	6510	+	1,48	<i>L.monocytogenes</i>	=
R31	EN	Yes	Rinsing water	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	=
R32	EN	Yes	Rinsing water for mushrooms	+LA	+LA	+HA	+HB	<i>L.monocytogenes</i>	+	+MA	+	+	S+R-	-	+	6510	+	1,96	<i>L.monocytogenes</i>	=
R33	EN	Yes	Eau de rinçage, atelier champignons	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	=
R34	EN	Yes	Process water, mushroom plant	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	=
R35	EN	Yes	Process water	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	=
R36	EN	Yes	Rinsig water, fresh vegetables plant	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	=
R37	EN	Yes	Washing water, fresh vegetables plant	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	=
R38	EN	Yes	Rinsing water for mushrooms	Ø	Ø	+HA	+HA	<i>L.monocytogenes</i>	+	-LE	-	/	/	/	/	-	0,00	/	/	FN
R39	EN	Yes	Washing bath for mushrooms	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	=
T16	EN	No	Water from fish conveyor gutter	+LB	+LA	+HA	+HA	<i>L.monocytogenes</i>	+	+MB	+	+	S+R-	-	+	6510	+	0,20	<i>L.monocytogenes</i>	=
U9	EN	No	Rinsing water	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	=
U10	EN	No	Rinsing baths	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	=
U11	EN	No	Rinsing baths	Ø	Ø	Ø	Ø	/	-	Ø	-	/	/	/	/	/	/	/	/	=
V1	EN	No	Siphon sewage	+MA	+MB	+MB	+MB	<i>L.monocytogenes</i>	+	+HB	+	+	S+R-	-	+	6510	+	1,17	<i>L.monocytogenes</i>	=
V25	EN	No	Water from fish conveyor	+MB	+LA	+MB	+MB	<i>L.monocytogenes</i>	+	+MA	+	+	S+R-	-	+	6510	+	2,11	<i>L.monocytogenes</i>	=
T7	EN	No	Surface Clean box	-LE	Ø	Ø	-LE	/	-	-ME	-	/	/	/	/	/	/	/	/	=
T8	EN	No	Surface Clean box	Ø	Ø	Ø	Ø	/	-	-LE	-	/	/	/	/	/	/	/	/	=
T26	EN	No	Stainless blade, RTE plant	-LE	Ø	-LE	Ø	/	-	-ME	-	/	/	/	/	/	/	/	/	=
U1	EN	No	Surface orange box after wathing	-ME	-LE	-LE	-LE	/	-	-ME**	-	/	/	/	/	/	/	/	/	=
U2	EN	No	Surface orange lid after wathing	-LE	-LE	Ø	-LE	/	-	-HE	-	/	/	/	/	/	/	/	/	=
U3	EN	No	Surface orange box before wathing	+LA	-ME	+HA	-HE	<i>L.welshimeri</i>	-	-HE	-	/	/	/	/	/	/	/	/	=
U4	EN	No	Surface orange box before wathing	-ME	-LE	+HA	-HE	<i>L.welshimeri</i>	-	-ME	-	/	/	/	/	/	/	/	/	=
U5	EN	No	Surface orange box before wathing	+LB	+MB	+HA	+HA	<i>L.monocytogenes</i> <i>L.welshimeri</i>	+	+MD**	+	+	S+R-	-	+	6510	+	2,18	<i>L.monocytogenes</i>	=
U6	EN	No	Surface box after washing	-ME	-ME	Ø	-ME	/	-	-ME	-	/	/	/	/	/	/	/	/	=
U7	EN	No	Surface red box after washing	+MB	+MB	+HB	+HB	<i>L.monocytogenes</i> <i>L.welshimeri</i>	+	+HD	+	+	S+R-	-	+	6510	+	0,26	<i>L.monocytogenes</i>	=
U8	EN	No	Surface box after washing	-LE	-LE	Ø	-ME	/	-	-ME	-	/	/	/	/	/	/	/	/	=
U12	EN	No	Surface beige chest before washing	-LE	-LE	+HA	-HE	<i>L.innocua</i>	-	-ME**	-	/	/	/	/	/	/	/	/	=
U13	EN	No	Surface green box before wathing	-LE	-LE	+MB	-ME	<i>L.welshimeri</i>	-	-HE	-	/	/	/	/	/	/	/	/	=
U14	EN	No	Surface fish box after drying	-ME	-ME	+LB	-LE	<i>L.welshimeri</i>	-	-HE	-	/	/	/	/	/	/	/	/	=
U15	EN	No	Gauze drying machine	-LE	Ø	-ME	-LE	/	-	-ME	-	/	/	/	/	/	/	/	/	=
U16	EN	No	Gauze exit washing machine	-LE	-LE	-LE	-ME	/	-	-ME	-	/	/	/	/	/	/	/	/	=
U17	EN	No	Gauze exit rinsing machine	-HE	-ME	-ME	-ME	/	-	-HE	-	/	/	/	/	/	/	/	/	=
U18	EN	No	Surface white chest before washing	+LB	+MB	+HA	+HA	<i>L.monocytogenes</i>	+	+MB	+	+	S+R-	-	+	6510	+	0,27	<i>L.monocytogenes</i>	=
U19	EN	No	Surface beige box before washing	-LE	-LE	-LE	-LE	/	-	-HE	-	/	/	/	/	/	/	/	/	=
U21	EN	No	Surface dried red box after washing	-LE	-LE	-ME	-HE	/	-	-ME	-	/	/	/	/	/	/	/	/	=
U22	EN	No	Surface wet red box after washing	-LE	-ME	-HE	-HE	/	-	-ME	-	/	/	/	/	/	/	/	/	=
U23	EN	No	Surface gray box after washing	-ME	-ME	-LE	-ME	/	-	-ME	-	/	/	/	/	/	/	/	/	=
V2	EN	No	Surface conveyor	+HA	+MA	+MB	+MB	<i>L.monocytogenes</i>	+	+HA	+	+	S+R-	-	+	6510	+	2,74	<i>L.monocytogenes</i>	=
V4	EN	No	Surface gray box with fish fillets	+HA	+LA	+MB	+HB	<i>L.monocytogenes</i>	+	+MA	+	+	S+R-	-	+	6510	+	3,11	<i>L.monocytogenes</i>	=
V5	EN	No	Swab from knife	+HA	+MA	+MB	+MB	<i>L.monocytogenes</i>	+	+HA	+	+	S+R-	-	+	6510	+	3,03	<i>L.monocytogenes</i>	=
V7	EN	No	Gauze fish conveyor	+HA	+MA	+MB	+MB	<i>L.monocytogenes</i>	+	+HA	+	+	S+R-	-	+	6510	+	3,02	<i>L.monocytogenes</i>	=
V8	EN	No	Surface salmon scales	+HB	+HB	+MB	+MB	<i>L.monocytogenes</i>	+	+HA	+	+	S+R-	-	+	6510	+	2,97	<i>L.monocytogenes</i>	=
V11	EN	No	Surface white fish box	+HB	+MA	+MB	+MB	<i>L.monocytogenes</i>	+	+HA	+	+	S+R-	-	+	6510	+	3,04	<i>L.monocytogenes</i>	=
V12	EN	No	Surface boxes conveyor	+MA	+MA	+MB	+MB	<i>L.monocytogenes</i>	+	+HA	+	+	S+R-	-	+	6510	+	3,03	<i>L.monocytogenes</i>	=
V13	EN	No	Surface cutting table	+MA	+MA	+MA	+MC	<i>L.monocytogenes</i>	+	+HA	+	+	S+R-	-	+	6510	+	2,75	<i>L.monocytogenes</i>	=

Ref	Cat	Artif.C	Sample	Reference method EN ISO 11290-1 (#)						Alternative method										Comparison	
				Fraser 1/2 (10µl)		Fraser		Identifications	Result	Fraser 1/2		Confirmations									
				P1	A1	P2	A2			100 µl		Haemolysis	CampT	Xyl.	Rham.	Api List	Accuprobe	VIDAS LMO2	Identifications		
				OAA	Rés.																
T6	EN	No	Scraps from fish plant	Ø	Ø	Ø	Ø	/	-	-ME	-	/	/	/	/	/	/	/	/	/	=
T12	EN	No	Scraps from cutting machine	-ME	-LE	+LB	-ME	<i>L.welshimeri</i>	-	-ME	-	/	/	/	/	/	/	/	/	/	=
T13	EN	No	Scraps from box of fish fillets	Ø	Ø	Ø	Ø	/	-	-ME	-	/	/	/	/	/	/	/	/	/	=
T14	EN	No	Scraps from box of fish fillets	-LE	-LE	Ø	Ø	/	-	-ME	-	/	/	/	/	/	/	/	/	/	=
T15	EN	No	Scraps from conveyor	+MC	-LE	+LB	-LE	<i>L.welshimeri</i>	-	-ME	-	/	/	/	/	/	/	/	/	/	=
T17	EN	No	Scraps from conveyor	-LE	Ø	-LE	Ø	/	-	-ME	-	/	/	/	/	/	/	/	/	/	=
T18	EN	No	Scraps of fish fillets	+MB	-ME	+MC	-LE	<i>L.welshimeri</i>	-	-ME	-	/	/	/	/	/	/	/	/	/	=
T19	EN	No	Scraps from boxes	+MB	+MB	+HB	+MB	<i>L.monocytogenes</i>	+	+MB	+	+	S+R-	-	+	6510	+	0,12	<i>L.monocytogenes</i>	=	
T20	EN	No	Scraps from raw materials	Ø	Ø	Ø	Ø	/	-	-ME	-	/	/	/	/	/	/	/	/	/	=
T21	EN	No	Scraps from weighing conveyor	-Lb*	-LE	+MB	+MC	* <i>L.welshimeri</i> (5) <i>L.monocytogenes</i>	+	-ME	-	/	+	S+R-	+	6510**	/	+	0,72	<i>L.monocytogenes</i>	FN
T22	EN	No	Scraps from end conveyor	-ME	Ø	-LE	Ø	/	-	-ME	-	/	/	/	/	/	/	/	/	/	=
T23	EN	No	Scraps from salmons	Ø	Ø	Ø	Ø	/	-	-ME	-	/	/	/	/	/	/	/	/	/	=
T24	EN	No	Scraps from fishes	-LE	-LE	-LE	-LE	/	-	-ME	-	/	/	/	/	/	/	/	/	/	=
T25	EN	No	Scraps from stainless knife, RTE plant	+MA	-ME	+LC	-ME	<i>L.welshimeri</i>	-	-ME	-	/	/	/	/	/	/	/	/	/	=
T27	EN	No	Scraps from fishes	-LE	Ø	Ø	-LE	/	-	-ME	-	/	/	/	/	/	/	/	/	/	=
T28	EN	No	Scraps from fishes	+MB	+MB	+MB	+MB	<i>L.welshimeri</i> <i>L.monocytogenes</i>	+	+MB	+	+	S+R-	-	+	6510	+	0,53	<i>L.monocytogenes</i>	=	
V3	EN	No	Scraps from weighing conveyor (white fish)	+HA	+MA	+MB	+MB	<i>L.monocytogenes</i>	+	+HA	+	+	S+R-	-	+	6510	+	3,17	<i>L.monocytogenes</i>	=	
V6	EN	No	Scraps from conveyor	+HA	+HA	+MB	+MB	<i>L.monocytogenes</i>	+	+HA	+	+	S+R-	-	+	6510	+	3,05	<i>L.monocytogenes</i>	=	
V9	EN	No	Scraps from weighing conveyor (salmon)	+MB	+MB	+HB	+MB	<i>L.monocytogenes</i>	+	+HA	+	+	S+R-	-	+	6510	+	3,11	<i>L.monocytogenes</i>	=	
V10	EN	No	Scraps from waste gun	+MA	+MA	+MB	+HB	<i>L.monocytogenes</i>	+	+MA	+	+	S+R-	-	+	6510	+	3,08	<i>L.monocytogenes</i>	=	
V14	EN	No	Scraps from cutting table	+HB	+MB	+MB	+MC	<i>L.monocytogenes</i>	+	+HB	+	+	S+R-	-	+	6510	+	0,36	<i>L.monocytogenes</i>	=	

## APPENDIX C:

RELATIVE ACCURACY, RELATIVE SPECIFICITY,  
RELATIVE SENSITIVITY

-

DETAILED RESULTS TABLES  
FOR EACH SAMPLE CATEGORY  
*Listeria* other than *monocytogenes*

## **LEGEND**

### **Total bacteria growth**

∅ : no growth

L = low

M = medium

H = high

### **Distribution of flora**

A = pure culture of suspicious colonies

B = mix with a majority of suspicious colonies

C = mix with a minority of suspicious colonies

D = mix with rare suspicious colonies

E = absence of suspicious colonies

(x) : x characteristic colonies of *Listeria monocytogenes* if  $x \leq 5$

\* : presence of two *Listeria* types

### **Confirmation**

If purification, catalase test is performed with catalase ID on a strip

If no purification, catalase test is performed directly on OAA plate

If purification, streaking on PALCAM plate

IF no purification, stabbing on PALCAM plate

Code	Sample	Cat	Artif.	Reference method EN ISO 11290-1 #						Alternative method OAA											Comparison		
				Fraser 1/2		Fraser		Identifications	Result <i>Listeria</i> other than <i>monocytogenes</i>	Streaking		Confirmations						Result <i>Listeria</i> other than <i>monocytogenes</i>					
				O&A1	P1	O&A2	P2			22H	+48H at 2-8°C	Purif (Y/N)	GRAM	Catalase	PALCAM	Api List	RAPIDEC		Identifications				
C4	Horse minced meat	MP1	No	+LA	+LA	+MA	+HA	<i>L.welshimeri</i>	+	+LA	+LB	No	B+	+	+	7711	yellow	<i>L.welshimeri</i>	+	=			
C7	Beef minced meat	MP1	No	+LB*	+LB*	+MB*	+MB*	<i>L.monocytogenes</i> * <i>L.welshimeri</i>	+	+LB*	+MB*	No	B+	+	+	7711	green	<i>L.monocytogenes</i> * <i>L.welshimeri</i>	+	=			
C19	Ground beef	MP1	No	+LA	+MA	+MA	+HA	<i>L.welshimeri</i>	+	+MA	+MA	No	B+	+	+	7711		<i>L.welshimeri</i>	+	=			
E9	Côtes de porc	MP1	No	+MA	+MA	+MA	+MB	<i>L.welshimeri</i>	+	+MA	+MA	No	B+	+	+	7711		<i>L.welshimeri</i>	+	=			
F4	Ground horse meat	MP1	No	Ø	-LE	Ø	Ø	/	-	-LE	-LE	/	/	/	/	/	/	/	/	/	/	-	=
F12	Ground horse meat	MP1	No	+LB*	+LB	+MB*	+MB*	<i>L.monocytogenes</i> * <i>L.innocua</i>	+	+MB*	+MB*	No	B+	+	+	7510	green	<i>L.monocytogenes</i> * <i>L.innocua</i>	+	=			
G17	Pork meat	MP1	No	+LB*	+LB*	+MB*	+MB*	<i>L.monocytogenes</i> * <i>L.welshimeri</i>	+	+MB*	+MB*	Yes	/	/	/	6510	green	<i>L.monocytogenes</i> * <i>L.welshimeri</i>	+	=			
H11	Ground horse meat	MP1	No	+LB*	+LB*	+MB*	+HB*	<i>L.monocytogenes</i> <i>L.innocua</i>	+	+MB*	+MB*	No	B+	+	+	7711	blue	<i>L.monocytogenes</i> * <i>L.innocua</i>	+	=			
H26	Pork shoulder	MP1	No	+MB	+MB	+MB	+MB	<i>L.welshimeri</i>	+	+MB	+MB	No	B+	+	+	7711		<i>L.welshimeri</i>	+	=			
C5	Merguez	MP2	No	+MB*	+MB*	+MB*	+HB*	<i>L.monocytogenes</i> * <i>L.innocua</i>	+	+MA	+MB*	No	B+	+	+	7110		<i>L.innocua</i> * <i>L.monocytogenes</i>	+	=			
C8	Beef meatballs	MP2	No	+LD	+MD	+MD	+MD	<i>L.seeligeri</i>	+	+MB	+MB	No	B+	+	+	2310		<i>L.seeligeri</i>	+	=			
C9	Caif paupiettes	MP2	No	+MB*	+MB*	+MB*	+HB*	<i>L.monocytogenes</i> * <i>L.welshimeri</i>	+	+MB*	+MB*	No	B+	+	+	7711	green	<i>L.monocytogenes</i> * <i>L.welshimeri</i>	+	=			
E1	Black pudding	MP2	No	-LE	-LE	Ø	-ME	/	-	-ME	-ME	/	/	/	/	/	/	/	/	/	/	-	=
E6	Chipolatas	MP2	No	Ø	-LE	Ø	-LE	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	-	=
E8	Chipolatas	MP2	No	+LA(2)	+LB(1)	+MB	+MB	<i>L.welshimeri</i>	+	+LA	+LB	No	B+	+	+	7511		<i>L.welshimeri</i>	+	=			
E10	Bio sausages	MP2	No	+LA	+LB	+MB	+MB	<i>L.welshimeri</i>	+	+MA	+MA	No	B+	+	+	7711		<i>L.welshimeri</i>	+	=			
E11	Burger tomatoes	MP2	No	Ø	Ø	Ø	Ø	/	-	Ø	-LE	/	/	/	/	/	/	/	/	/	/	-	=
E16	Black pudding	MP2	No	-LE	-ME	-LE	-ME	/	-	-LE	-LE	/	/	/	/	/	/	/	/	/	/	-	=
I1	Marinated chicken legs	MP2	No	+LB*	+MB*	+MB*	+HB*	<i>L.monocytogenes</i> * <i>L.innocua</i>	+	+MB*	+MB*	No	B+	+	+	7510	green	<i>L.monocytogenes</i> * <i>L.innocua</i>	+	=			
I19	Chipolatas	MP2	No	Ø	-ME	Ø	-ME	/	-	+LB?	-LE	No	B+	+	/	/	/	/	/	/	/	-	= (FP)
I18	Spiced pork sausage	MP2	No	+LB	+LB(3)	+LB	+LB	<i>L.innocua</i>	+	+LB	+LB		B+	+	+	7510		<i>L.innocua</i>	+	=			
I20	Sausage	MP2	No	+MA	+MB	+MB	+HB	<i>L.welshimeri</i>	+	+MB	+MB	No	B+	+	+	7711		<i>L.welshimeri</i>	+	=			
J16	Pork sausage	MP2	No	+LB*	+MB*	+MB	+HB*	<i>L.monocytogenes</i> * <i>L.welshimeri</i>	+	+MB*	+MB*	No	B+	+	+	6510	green	<i>L.monocytogenes</i> * <i>L.welshimeri</i>	+	=			
J18	Merguez	MP2	No	+LB	+MB	+MB	+HB	<i>L.welshimeri</i>	+	+MB	+MB	No	B+	+	+	7711		<i>L.welshimeri</i>	+	=			
J19	Pork sausage	MP2	No	+LB*	+LB*	+MA	+HB	<i>L.monocytogenes</i> * <i>L.innocua</i>	+	+MB*	+MB*	No	B+	+	+	7710	green	<i>L.monocytogenes</i> * <i>L.innocua</i>	+	=			
F13	Raw marinated chicken fillets	MP2	No	-ME	-ME	-ME	-ME	/	-	-ME	-ME	/	/	/	/	/	/	/	/	/	/	-	=
K11	Raw marinated chicken fillets	MP2	No	-LE	Ø	-ME	-LE	/	-	-ME	-ME	/	/	/	/	/	/	/	/	/	/	-	=

Meat products

Code	Sample	Cat	Artif.	Reference method EN ISO 11290-1 #						Alternative method OAA											Result <i>Listeria</i> other than <i>monocytogenes</i>	Comparison				
				Fraser 1/2		Fraser		Identifications	Result <i>Listeria</i> other than <i>monocytogenes</i>	Streiking		Confirmations							Identifications							
				O&A1	P1	O&A2	P2			22H	+48H at 2-8°C	Purif (Y/N)	GRAM	Catalase	PALCAM	Api List	RAPIDEC									
B2	Saucisson	MP3	No	-LE	-LE	-ME	-ME	/	-	-LE	-LE	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
B5	Pâté	MP3	No	-LE	-LE	-LE	-LE	/	-	-LE	-LE	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
C11	Ham	MP3	No	+LB*	+LB*	+MB*	+MB*	<i>L.monocytogenes</i> <i>*L.welshimeri</i>	+	+LB*	+LB*	No	No	B+	+	+	6510	6711	green yellow	<i>L.monocytogenes</i> <i>*L.welshimeri</i>	+	=	=			
C26	Rosted chicken	MP3	No	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
D7	Quiche Lorraine	MP3	No	Ø	Ø	Ø	-LE	/	-	Ø	-LE	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
D8	Sandwich smoked ham	MP3	No	-LE	-ME	Ø	-LE	/	-	-LE	-ME	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
D20	Bayonne ham	MP3	Yes	-LE	Ø	Ø	Ø	/	-	Ø	-LE	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
D21	Pâté	MP3	Yes	+MA	+HA	+MA	+HA	<i>L.welshimeri</i>	+	+MA	+MA	No	B+	+	+	7711			<i>L.welshimeri</i>	+	=	=				
D26	Pizza with ham	MP3	No	Ø	Ø	Ø	Ø	/	-	Ø	-LE	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
E4	Roasting pork meat	MP3	No	Ø	Ø	-LE	Ø	/	-	Ø	-LE	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
E7	Frankfurter sausage	MP3	No	-LE	Ø	Ø	Ø	/	-	Ø	-LE	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
E17	Bacon	MP3	No	+LA	+MB	+MB	+MB	<i>L.welshimeri</i>	+	+MA	+MA	No	B+	+	+	7711			<i>L.welshimeri</i>	+	=	=				
E18	Breast of pork	MP3	No	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
E19	Andouille	MP3	No	+HA	+HA	+MB	+MB	<i>L.innocua</i>	+	+MA	+HA	No	B+	+	+	7510			<i>L.innocua</i>	+	=	=				
F6	Savoie ham	MP3	No	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
F7	Saucisson	MP3	No	Ø	-ME	-ME	-ME	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
F14	Breast of pork	MP3	No	+MA	+MC	+MB	+MB	<i>L.welshimeri</i>	+	+MA	+MA	No	B+	+	+	6711			<i>L.welshimeri</i>	+	=	=				
F16	Pâté de campagne	MP3	No	+MA	+MC	+MB	+HB	<i>L.innocua</i>	+	+MA	+MA	No	B+	+	+	7510			<i>L.innocua</i>	+	=	=				
F20	Pâté le Much'ail	MP3	No	Ø	-LE	-LE	Ø	/	-	Ø	-LE	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
F21	Terrine Bourguignonne	MP3	No	-LE	-ME	-LE	Ø	/	-	Ø	-LE	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
G16	Cured ham	MP3	No	Ø	Ø	-ME	-ME	/	-	Ø	-LE	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
G18	Pita	MP3	No	-LE	-ME	+MB	+HB	<i>L.welshimeri</i>	+	+LB?	-LE	Yes	B+	+	/	/	/	/	/	/	/	/	/	/	-	FN
H8	Sandwich with ham	MP3	No	Ø	Ø	Ø	Ø	/	-	Ø	-LE	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
H21	Petits fours bacon and pâté	MP3	No	Ø	Ø	Ø	-LE	/	-	-LE	-LE	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
H22	Petits fours duck breast	MP3	No	+MB*	+MB*	+MB*	+MB*	<i>L.monocytogenes</i> <i>*L.welshimeri</i>	+	+MB*	+MB*	No	No	B+	+	+	6510	7711	green	<i>L.monocytogenes</i> <i>*L.welshimeri</i>	+	=	=			
I2	Bayonne ham	MP3	No	Ø	-LE	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
I3	White ham	MP3	No	-LE	Ø	-LE	Ø	/	-	Ø	-LE	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
I4	Pâté de campagne	MP3	No	+LA	+LA	+MA	+MB	<i>L.welshimeri</i>	+	+MA	+MA	No	B+	+	+	7711			<i>L.welshimeri</i>	+	=	=				
I5	Salami	MP3	No	Ø	-LE	-LE	-LE	/	-	Ø	-LE	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
I6	White ham	MP3	No	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
I17	Saucisson	MP3	No	Ø	Ø	Ø	Ø	/	-	Ø	-LE	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
J12	Saucisson	MP3	No	-LE	Ø	+MB	+MC	<i>L.welshimeri</i>	+	-LE	-ME	/	/	/	/	/	/	/	/	/	/	/	/	/	-	FN
J15	Saucisson	MP3	No	+LA	+MB	+MB	+HB	<i>L.welshimeri</i>	+	+MA	+MB	No	B+	+	+	7711			<i>L.welshimeri</i>	+	=	=				
J17	Spiced minced meat	MP3	No	+LB*	+MB*	+MB*	+HD	<i>L.monocytogenes</i> <i>*L.welshimeri</i>	+	+MB*	+MB*	No	No	B+	+	+	6510	7711	green	<i>L.monocytogenes</i> <i>*L.welshimeri</i>	+	=	=			
J21	smoked streaky bacon	MP3	No	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
K24	Potatoes bacon et sausages with mustard sauce	MP3	No	Ø	Ø	-ME	-LE	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
L13	Foie gras	MP3	No	+MA	+MA	+MA	+HB	<i>L.innocua</i>	+	+MA	+MA	No	B+	+	+	7510			<i>L.innocua</i>	+	=	=				
L19	Cured ham	MP3	No	+MB*	+LB	+MA	+MB	<i>L.monocytogenes</i> <i>*L.welshimeri</i>	+	+MB*	+MB*	No	No	B+	+	+	6510	7711	green	<i>L.monocytogenes</i> <i>*L.welshimeri</i>	+	=	=			
L20	Sandwich with saucisson	MP3	No	-LE	Ø	-ME	Ø	/	-	Ø	-ME	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
L22	Toasted ham and cheese sandwich	MP3	No	+MA	+LB	+MA	+HB	<i>L.innocua</i>	+	+MA	+MB	No	B+	+	+	7110			<i>L.innocua</i>	+	=	=				

Code	Sample	Cat	Artif.	Reference method EN ISO 11290-1 #						Alternative method OAA										Comparison			
				Fraser 1/2		Fraser		Identifications	Result <i>Listeria</i> other than <i>monocytogenes</i>	Streaking		Confirmations						Result <i>Listeria</i> other than <i>monocytogenes</i>					
				O&A1	P1	O&A2	P2			22H	+48H at 2-8°C	Purif (Y/N)	GRAM	Catalase	PALCAM	Api List	RAPIDEC		Identifications				
D14	Reblochon cheese	DP1	Yes	+LB	+LB	+MA	+HB	<i>L.innocua</i>	+	+MC	+MC	No	B+	+	+	7510		<i>L.innocua</i>	+	=			
D15	Maroilles cheese	DP1	Yes	+LB	+LD	+MA	+MA	<i>L.innocua</i>	+	+MB	+MB	No	B+	+	+	7510		<i>L.innocua</i>	+	=			
D22	Raw milk	DP1	No	-LE	-LE	-LE	Ø	/	-	Ø	-LE	/	/	/	/	/	/	/	/	/	-	=	
E23	Brie cheese (raw milk)	DP1	Yes	Ø	Ø	+MA	+MA	<i>L.welshimeri</i>	+	+LA(3)	+LB(3)	No	B+	+	+	7711	/	/	/	/	<i>L.welshimeri</i>	+	=
E24	Reblochon cheese (raw milk)	DP1	Yes	+LB	+LC	+MB	+HB	<i>L.welshimeri</i>	+	+LA	+MB	No	B+	+	+	7711	/	/	/	/	<i>L.welshimeri</i>	+	=
E27	Raw milk	DP1	Yes	+LA(3)	Ø	+MA	+HA	<i>L.welshimeri</i>	+	+LA	+LB	No	B+	+	+	7711	/	/	/	/	<i>L.welshimeri</i>	+	=
E28	Raw milk	DP1	Yes	+MB*	+MB*	+MB*	+MB*	<i>L.monocytogenes</i> * <i>L.welshimeri</i>	+	+MB*	+MB*	No	B+	+	+	6510 6711		green yellow		<i>L.monocytogenes</i> * <i>L.welshimeri</i>	+	=	
G23	Raw milk cheese	DP1	No	-LE	Ø	Ø	Ø	/	-	-ME	-ME	/	/	/	/	/	/	/	/	/	-	=	
G26	Reblochon cheese (raw milk)	DP1	No	-LE	Ø	Ø	Ø	/	-	-LE	-ME	/	/	/	/	/	/	/	/	/	-	=	
H1	Camembert cheese (raw milk)	DP1	No	Ø	-LE	Ø	-LE	/	-	Ø	-LE	/	/	/	/	/	/	/	/	/	-	=	
H7	Neufchatel cheese (raw milk)	DP1	No	Ø	-ME	Ø	-ME	/	-	Ø	-LE	/	/	/	/	/	/	/	/	/	-	=	
H25	Camembert cheese (raw milk)	DP1	No	Ø	Ø	-LE	-LE	/	-	Ø	-LE	/	/	/	/	/	/	/	/	/	-	=	
J10	Brique cheese (pasteurizd milk)	DP1	No	Ø	Ø	Ø	Ø	/	-	Ø	-LE	/	/	/	/	/	/	/	/	/	-	=	
K13	Tomette de savoie cheese (raw milk)	DP1	No	-ME	-ME	-ME	-ME	/	-	-ME	-HE	/	/	/	/	/	/	/	/	/	-	=	
L12	Morbier cheese (raw milk)	DP1	No	-ME	-LE	-LE	Ø	/	-	-ME	-ME	/	/	/	/	/	/	/	/	/	-	=	
L24	Brie de Meaux AOC cheese (raw milk)	DP1	No	-LE	Ø	Ø	Ø	/	-	-LE	-ME	/	/	/	/	/	/	/	/	/	-	=	
N2	Walnut soft cheese	DP1	No	+LB	+LB	+MB	+HB	<i>L.innocua</i>	+	+MB	+MB	No	B+	+	+	7510		<i>L.innocua</i>	+	+			
O15	Cow's raw milk cheese	DP1	Yes	-LE	Ø	-ME	-LE	/	-	Ø	-ME	/	/	/	/	/	/	/	/	/	-	=	
O16	Reblochon cheese (raw milk)	DP1	Yes	-LE	-LE	Ø	-ME	/	-	Ø	-ME	/	/	/	/	/	/	/	/	/	-	=	
O17	Epoisses cheese (raw milk)	DP1	Yes	+LA(2)	-LE	Ø	Ø	<i>L.innocua</i>	+	+LB	+LB	No	B+	+	+	7510		<i>L.innocua</i>	+	=			
P16	Raclette cheese (raw milk)	DP1	Yes	+MA	+MA	+MA	+MA	<i>L.innocua</i>	+	+MA	+MA	No	B+	+	+	7510		<i>L.innocua</i>	+	=			
P19	Brie de Meaux AOC cheese (raw milk)	DP1	Yes	+MA	+MB	+MA	+HA	<i>L.innocua</i>	+	+MA	+MB	No	B+	+	+	7510		<i>L.innocua</i>	+	=			
Q1	Reblochon cheese (raw milk)	DP1	Yes	+LA(1)	+LC(1)	+MB	+MB	<i>L.innocua</i>	+	+LA	+MB	No	B+	+	+	7510		<i>L.innocua</i>	+	=			
Q2	Cow's raw milk cheese	DP1	Yes	-ME	Ø	Ø	Ø	/	-	-ME	-ME	/	/	/	/	/	/	/	/	/	-	=	
Q3	Camembert cheese (raw milk)	DP1	Yes	+LB	+LB(3)	+MB	+MB	<i>L.innocua</i>	+	+MB	+MB	No	B+	+	+	7510		<i>L.innocua</i>	+	=			
B7	Petit Bethmale (goat's cheese)	DP2	No	-ME	Ø	-LE	-LE	/	-	-ME	-ME	/	/	/	/	/	/	/	/	/	-	=	
C21	Roquefort cheese	DP2	No	Ø	-LE	Ø	Ø	/	-	-LE	-LE	/	/	/	/	/	/	/	/	/	-	=	
C22	Roquefort cheese	DP2	No	+LB	+LA	+MA	+HA	<i>L.welshimeri</i>	+	+LB	+LB	No	B+	+	+	7511		<i>L.welshimeri</i>	+	=			
D11	Goat's cheese	DP2	Yes	+LB	+LB	+MA	+HA	<i>L.innocua</i>	+	+MB	+MB	No	B+	+	+	7510		<i>L.innocua</i>	+	=			
D12	Ossau Iraty cheese	DP2	Yes	+MB	+MB	+MA	+HA	<i>L.innocua</i>	+	+MB	+MB	No	B+	+	+	7510		<i>L.innocua</i>	+	=			
D13	Poitou goat's cheese	DP2	Yes	+MB	+MB	+MA	+HA	<i>L.innocua</i>	+	+MA	+MA	No	B+	+	+	7510		<i>L.innocua</i>	+	=			
E25	Ricotta cheese (raw ewe's milk)	DP2	Yes	+MB	+MB	+MB	+HB	<i>L.welshimeri</i>	+	+MA	+MB	No	B+	+	+	7711	/	/	/	/	<i>L.welshimeri</i>	+	=
E26	Goat's cheese (raw milk)	DP2	Yes	Ø	Ø	+MA	+HB	<i>L.welshimeri</i>	+	+LA(2)	+LB	No	B+	+	+	7711	/	/	/	/	<i>L.welshimeri</i>	+	=
F19	Goat's cheese (raw milk)	DP2	No	Ø	Ø	-LE	-LE	/	-	Ø	-LE	/	/	/	/	/	/	/	/	/	-	=	
G22	Roquefort cheese	DP2	No	Ø	Ø	Ø	Ø	/	-	Ø	-LE	/	/	/	/	/	/	/	/	/	-	=	
J11	Charolais goat's cheese (raw milk)	DP2	No	+LB (2)	-LE	-LE	-LE	<i>L.seeligeri</i>	+	+LB	+LC	Yes	B+	+	+	2310		<i>L.seeligeri</i>	+	=			
K15	Goat's cheese with pepper (raw milk)	DP2	No	-HE	-LE	-ME	-ME	/	-	-ME	-HE	/	/	/	/	/	/	/	/	/	-	=	
M14	Roquefort cheese	DP2	No	+LC(1)	+LB(1)	+MA	+HB	<i>L.ivanovii</i>	+	+LC	+MD	No				2330		blue		<i>L.ivanovii</i>	+	=	
N17	Feta and dari olives	DP2	No	+LB*	+LB*	+MB*	+MB*	<i>L.monocytogenes</i> * <i>L.seeligeri</i>	+	+LB*	+LB*	No	B+	+	+	6510 3310		green		<i>L.monocytogenes</i> * <i>L.seeligeri</i>	+	=	
O14	Goat's milk cheese (raw milk)	DP2	Yes	Ø	-LE	-LE	Ø	/	-	Ø	-ME	/	/	/	/	/	/	/	/	/	-	=	
P17	Goat's milk cheese (raw milk)	DP2	Yes	+LA+LB	+LB	+MB	+MB	<i>L.innocua</i>	+	+LA	+MB	No	B+	+	+	7510		<i>L.innocua</i>	+	=			
P18	Goat's milk cheese (raw milk)	DP2	Yes	+LA+LB	+LB	+MB	+HB	<i>L.innocua</i>	+	+LA	+MB	No	B+	+	+	7510		<i>L.innocua</i>	+	=			
Q4	Goat's milk cheese (raw milk)	DP2	Yes	+LA(2)	+LB(1)	+LB	+LB	<i>L.innocua</i>	+	+LB	+LB	No	B+	+	+	7510		<i>L.innocua</i>	+	=			

Dairy products

Code	Sample	Cat	Artif.	Reference method EN ISO 11290-1 #						Alternative method OAA											Comparison					
				Fraser 1/2		Fraser		Identifications	Result <i>Listeria</i> other than <i>monocytogenes</i>	Streaking		Confirmations							Result <i>Listeria</i> other than <i>monocytogenes</i>							
				O&A1	P1	O&A2	P2			22H	+48H at 2-8°C	Purif (Y/N)	GRAM	Catalase	PALCAM	Api List	RAPIDEC			Identifications						
B8	Flan	DP3	No	Ø	Ø	-LE	-LE	/	-	Ø	-LE	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
C20	Pont l'Evêque cheese	DP3	No	Ø	Ø	Ø	Ø	/	-	Ø	-LE	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
D10	Custard	DP3	No	Ø	-LE	-LE	-ME	/	-	Ø	-LE	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
D16	Milk powder	DP3	Yes	+MA	+MA	+MB	+HB	<i>L.innocua</i>	+	+MA	+MB	No	B+	+	+	7510								<i>L.innocua</i>	+	=
D17	Milk powder	DP3	Yes	+MB	+MB	+MB	+HB	<i>L.innocua</i>	+	+MA	+MB	No	B+	+	+	7510								<i>L.innocua</i>	+	=
D18	Caramel and chocolate mousse	DP3	Yes	+MB	+MB	+MA	+HB	<i>L.innocua</i>	+	+MB	+MB	No	B+	+	+	7510								<i>L.innocua</i>	+	=
D19	Whipped cream bun	DP3	Yes	+MA	+MA	+MB	+HB	<i>L.innocua</i>	+	+MA	+MA	No	B+	+	+	7510								<i>L.innocua</i>	+	=
E29	Raspberries with whipped cream	DP3	Yes	+MB*	+MB*	+MA	+HA	<i>L.monocytogenes</i> * <i>L.welshimeri</i>	+	+MB*	+MB*	No				6510	green							<i>L.monocytogenes</i> * <i>L.welshimeri</i>	+	=
F1	Raspberries tart	DP3	No	-LE	-LE	-ME	Ø	/	-	-ME	-ME	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
G25	Chou bun	DP3	No	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
J6	Pastry with whipped cream	DP3	No	Ø	-LE	Ø	-ME	/	-	Ø	-LE	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
J13	Coffee mousse	DP3	No	-LE	Ø	Ø	-ME	/	-	-LE	-LE	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
K1	Whipped cream bun	DP3	No	+MB*	+MB*	+MB*	+HB*	<i>L.monocytogenes</i> * <i>L.innocua</i>	+	+HA	+HB*	Yes				6510	green							<i>L.monocytogenes</i> <i>L.innocua</i>	+	=
K2	Raspberries tart	DP3	No	-LE	Ø	-ME	-LE	/	-	Ø	-ME	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
K3	Caroline (custard and whipped cream)	DP3	No	-LE	Ø	Ø	Ø	/	-	-ME	-ME	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
L10	Whipped cream bun	DP3	No	+LB*	+MB*	+MB*	+HB*	<i>L.monocytogenes</i> * <i>L.innocua</i>	+	+MB*	+MB*	No	B+	+	+	6510	green							<i>L.monocytogenes</i> * <i>L.innocua</i>	+	=
L17	Whipped cream bun	DP3	No	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
L18	Forêt noire pastry	DP3	No	+MA	+MB	+MA	+HB	<i>L.innocua</i>	+	+MA	+MA	No	B+	+	+	7110								<i>L.innocua</i>	+	=
L23	Saint Honoré pastry	DP3	No	-LE	Ø	-ME	Ø	/	-	Ø	-LE	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
L25	Bavarois pastry with exotic fruits	DP3	No	Ø	Ø	-LE	-LE	/	-	Ø	-LE	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
N1	Strawberries and whipped cream	DP3	No	+MB*	+MB*	+MB*	+HB*	<i>L.monocytogenes</i> * <i>L.innocua</i>	+	+MB*	+MB*	No				6510	green							<i>L.monocytogenes</i> * <i>L.innocua</i>	+	+
O23	Fruits tart	DP3	No	-ME	Ø	-ME	-ME	<i>Bacillus</i>	-	-ME	-ME	Yes	B+	+	+	3510								/	-	=
Q5	Fruits tart	DP3	No	+LB	+LB(2)	+LB	+LA	<i>L.innocua</i>	+	+MB	+MB	No	B+	+	+	3510								<i>L.innocua</i>	+	=

Seafood products

Code	Sample	Cat	Artif.	Reference method EN ISO 11290-1 #						Alternative method OAA											Result <i>Listeria</i> other than <i>monocytogenes</i>	Comparison				
				Fraser 1/2		Fraser		Identifications	Result	Streaking		Confirmations							Identifications							
				O&A1	P1	O&A2	P2			22H	+48H at 2-8°C	Purif (Y/N)	GRAM	Catalase	PALCAM	Api List	RAPIDEC									
A3	Salmon fillet	SP1	No	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
A4	Perch fillet	SP1	No	+MA	+MB*	+MB*	+MB*	<i>L.monocytogenes</i> <i>*L.innocua</i>	+	+MA	+MA	No	B+	+	+	7510	green			<i>L.monocytogenes</i> <i>*L.innocua</i>	+	=				
A5	Shellfish cocktail	SP1	No	-LE	Ø	-LE	Ø	/	-	-HE	-HE	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
A6	Haddock fillet	SP1	No	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
A7	Salmon paupiettes	SP1	No	Ø	Ø	-LE	-ME	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
C3	Salmon fillet	SP1	No	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
C12	Schrimps	SP1	No	Ø	Ø	-LE	-ME	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
E2	Schrimps	SP1	No	-LE	-LE	Ø	-LE	/	-	-ME	-ME	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
E15	Hering fillet	SP1	No	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
F2	Schrimps	SP1	No	-LE	-LE	Ø	Ø	/	-	-ME	-ME	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
F3	Schrimps	SP1	No	+LB?/-LE	-LE	Ø	Ø	/	-	-ME	-ME	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
G5	Frozen salmon steaks	SP1	No	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
G6	Schrimps	SP1	No	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
G7	Schrimps	SP1	No	Ø	Ø	Ø	Ø	/	-	Ø	-LE	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
G13	White fish fillet	SP1	No	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
H4	Winkles	SP1	No	-LE	Ø	Ø	Ø	/	-	-ME	-ME	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
H5	Schrimps	SP1	No	-LE	Ø	Ø	Ø	/	-	-ME	-ME	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
H33	Winkles	SP1	No	-ME	Ø	Ø	Ø	/	-	-ME	-ME	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
I10	Schrimps	SP1	No	-ME	-LE	Ø	-ME	/	-	-ME	-ME	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
J1	Prawn	SP1	No	-LE	Ø	Ø	Ø	/	-	-ME	-ME	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
J2	Schrimps	SP1	No	-LE	Ø	Ø	Ø	/	-	-ME	-ME	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
J3	Schrimps	SP1	No	-ME	-LE	-LE	-LE	/	-	-ME	-ME	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
J4	Schrimps	SP1	No	-ME	Ø	Ø	Ø	/	-	-ME	-ME	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
J5	Schrimps	SP1	No	-ME	Ø	Ø	Ø	/	-	-ME	-ME	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
J7	Shellfish cocktail	SP1	No	+LA	+MA	+MB	+MB	<i>L.innocua</i>	+	+MA	+MB	No	B+	+	+	7510				<i>L.innocua</i>	+	=				
K8	Hering fillet	SP1	No	Ø	Ø	Ø	Ø	/	-	Ø	-LE	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
K10	Hering fillet	SP1	No	Ø	Ø	Ø	Ø	/	-	-LE	-LE	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
K18	Hering fillet	SP1	No	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
K22	Shellfish cocktail	PP	No	+LB*	+MA	+MB*	+MB*	<i>L.monocytogenes</i> <i>L.welshimeri</i>	+	+HB*	+HB*	No	B+	+	+	6510 7711	green			<i>L.monocytogenes</i> <i>L.welshimeri</i>	+	=				
L8	Winkles	SP1	No	-ME	-LE	-LE	-LE	/	-	-ME	-ME	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
L9	Winkles	SP1	No	+LB ?	Ø	-LE	-LE	<i>Bacillus</i>	-	+MA?	-ME	No	B+	+	/	/	/	/	/	/	/	/	/	/	-	=
M18	Shellfish cocktail	SP1	No	+MA	+LB*	+MB	+HB	<i>L.monocytogenes</i> <i>*L.innocua</i>	+	+MD*	+MD*	No	B+	+	+	6510 7510	green			<i>L.monocytogenes</i> <i>*L.innocua</i>	+	=				
N5	Hering fillet	SP1	No	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	/	/	-	+
N8	Prawn	SP1	No	-LE	Ø	Ø	Ø	/	-	Ø	-LE	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
N6	Shellfish cocktail	SP1	No	-ME	-LE	+MA	+HA	<i>L.welshimeri</i>	+	-ME	-ME	/	/	/	/	/	/	/	/	/	/	/	/	/	-	FN
N7	Prawn	SP1	No	+MB*	+MB*	+MB*	+MB*	<i>L.monocytogenes</i> <i>*L.innocua</i>	+	+MB*	+MB*	No	B+	+	+	6510 7510	green			<i>L.monocytogenes</i> <i>*L.innocua</i>	+	=				
N9	Winkles	SP1	No	+MB	+MA	+MB	+HB	<i>L.innocua</i>	+	+MB	+MB	No	B+	+	+	7510				<i>L.innocua</i>	+	=				
N10	Smoked salmon fillet	SP1	No	+MB	+MB	+MB	+HB	<i>L.innocua</i>	+	+MB	+MB	No	B+	+	+	7510				<i>L.innocua</i>	+	=				
N11	Schrimps	SP1	No	-ME	Ø	-ME	-ME	/	-	-ME	-ME	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
O1	Gray schrimps	SP1	Yes	+LB	+LA	+MA	+MB	<i>L.innocua</i>	+	+MA	+MB	No	B+	+	+	7510				<i>L.innocua</i>	+	=				
O2	Schrimps	SP1	No	+LB	+MD	+MD	+MD	<i>L.seeligeri</i>	+	+MC	+MC	No	B+	+	+	2310				<i>L.seeligeri</i>	+	=				
O3	Prawn	SP1	Yes	-LE	Ø	-ME	Ø	/	-	-LE	-LE	/	/	/	/	/	/	/	/	/	/	/	/	/	-	=
O4	Gray schrimps	SP1	Yes	+MB	+LA	+MA	+HA	<i>L.innocua</i>	+	+MA	+MB	No	B+	+	+	7510				<i>L.innocua</i>	+	=				
P8	Shellfish cocktail	SP1	Yes	+LB	+LD	+MA	+MA	<i>L.innocua</i>	+	+LA	+LB	No	B+	+	+	7510				<i>L.innocua</i>	+	=				
P9	Schrimps	SP1	Yes	+LB	+LC	+MA	+HB	<i>L.innocua</i>	+	+MB	+MB	No	B+	+	+	7510				<i>L.innocua</i>	+	=				
Q7	Schrimps	SP1	Yes	+LB	+LA	+MA	+HB	<i>L.welshimeri</i>	+	+MA	+MA	No	B+	+	+	7711				<i>L.welshimeri</i>	+	=				
Q9	Salmon from Norway	SP1	Yes	+LB	+LA	+MB	+HA	<i>L.welshimeri</i>	+	+MB	+MB	No	B+	+	+	7711				<i>L.welshimeri</i>	+	=				

Seafood products

Code	Sample	Cat	Artif.	Reference method EN ISO 11290-1 #					Alternative method OAA											Result <i>Listeria</i> other than <i>monocytogenes</i>	Comparison			
				Fraser 1/2		Fraser		Identifications	Streiking		Confirmations						Identifications							
				O&A1	P1	O&A2	P2		22H	+48H at 2-8°C	Purif (Y/N)	GRAM	Catalase	PALCAM	Api List	RAPIDEC								
A2	Smoked salmon	SP2	No	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	-	=
A8	Smoked salmon	SP2	No	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	-	=
A9	Smoked salmon tartar	SP2	No	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	-	=
E12	Smoked kipper	SP2	No	Ø	Ø	Ø	Ø	/	-	Ø	-LE	/	/	/	/	/	/	/	/	/	/	/	-	=
E13	Smoked salmon	SP2	No	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	-	=
G1	Smoked salmon from Atlantic	SP2	No	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	-	=
G3	Smoked salmon with 5 spices	SP2	No	Ø	Ø	-LE	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	-	=
G8	Smoked salmon from Norway	SP2	No	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	-	=
G10	Smoked trout	SP2	No	Ø	Ø	-LE	Ø	/	-	-LE	-LE	/	/	/	/	/	/	/	/	/	/	/	-	=
G11	Smoked trout	SP2	No	Ø	Ø	Ø	Ø	/	-	Ø	-ME	/	/	/	/	/	/	/	/	/	/	/	-	=
G12	Smoked salmon from Atlantic	SP2	No	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	-	=
G19	Smoked salmon from Scotland	SP2	No	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	-	=
G20	Smoked haddock	SP2	No	+LB*	+LA	+MB*	+HB	<i>L.monocytogenes</i> * <i>L.innocua</i>	+	+MB*	+MB*	No No	B+	+	+	6510 7510	green	<i>L.monocytogenes</i> * <i>L.innocua</i>	+	=				
G31	Smoked salmon	SP2	No	Ø	Ø	Ø	Ø	/	-	Ø	-LE	/	/	/	/	/	/	/	/	/	/	/	-	=
H18	Smoked salmon	SP2	No	Ø	Ø	-LE	-ME	/	-	-LE	-LE	/	/	/	/	/	/	/	/	/	/	/	-	=
H20	Petits fours with smoked salmon	SP2	No	-LE	Ø	Ø	-ME	/	-	-LE	-ME	/	/	/	/	/	/	/	/	/	/	/	-	=
K4	Smoked salmon from Norway	SP2	No	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	-	=
K6	Smoked salmon from Atlantic	SP2	No	+LA (5)	+LA (3)	+MB	+HA	<i>L.welshimeri</i>	+	+MA	+MA	No	B+	+	+	7711		<i>L.welshimeri</i>	+	=				
K19	Smoked cod	SP2	No	-LE	Ø	Ø	Ø	/	-	-ME	-ME	/	/	/	/	/	/	/	/	/	/	/	-	=
K21	Smoked halibut	SP2	No	Ø	Ø	Ø	Ø	/	-	Ø	-LE	/	/	/	/	/	/	/	/	/	/	/	-	=
L1	Smoked salmon	SP2	No	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	-	=
L2	Smoked salmon	SP2	No	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	-	=
L3	Smoked trout	SP2	No	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	-	=
L4	Smoked salmon	SP2	No	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	-	=
L5	Smoked salmon	SP2	No	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	-	=
L6	Smoked halibut	SP2	No	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	-	=
M12	Smoked salmon from Norway	SP2	No	+MB	+MA	+MA	+MA	<i>L.welshimeri</i>	+	+MB	+MB	No	B+	+	+	7711		<i>L.welshimeri</i>	+	=				
M13	Smoked salmon	SP2	No	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	-	=
M17	Smoked salmon paupiette	SP2	No	+MB	+MA	+MB	+HB	<i>L.innocua</i>	+	+MB	+MB	No	B+	+	+	7510		<i>L.innocua</i>	+	=				
O5	Smoked salmon from Atlantic	SP2	Yes	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	-	=
O6	Wild smoked salmon	SP2	Yes	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	-	=
O7	Smoked salmon from Norway	SP2	Yes	+LB	+LA	+MA	+MA	<i>L.innocua</i>	+	+MB	+MC	No	B+	+	+	7510		<i>L.innocua</i>	+	=				
O8	Smoked salmon from Norway	SP2	Yes	Ø	Ø	Ø	Ø	/	-	-LE	-LE	/	/	/	/	/	/	/	/	/	/	/	-	=
O9	Lardons de saumon	SP2	Yes	Ø	Ø	Ø	Ø	/	-	-LE	-LE	/	/	/	/	/	/	/	/	/	/	/	-	=
P10	Smoked salmon from Scotland	SP2	Yes	Ø	-LE	Ø	Ø	/	-	-ME	-ME	/	/	/	/	/	/	/	/	/	/	/	-	=
P11	Pieces of smoked salmon	SP2	Yes	-LE	-LE	+MA	+MA	<i>L.innocua</i>	+	-LE	-LE	/	/	/	/	/	/	/	/	/	/	/	-	FN
P12	Smoked salmon from Scotland	SP2	Yes	Ø	+LC(1)	+MA	+MA	<i>L.innocua</i>	+	+LD	+LD	No	B+	+	+	7510		<i>L.innocua</i>	+	=				
P13	Smoked salmon	SP2	Yes	Ø	Ø	-ME	-ME	<i>Bacillus</i>	+	+LD(3)	-LE	No	B+	/	/	/	/	/	/	/	/	/	-	=
Q8	Smoked salmon from Atlantic	SP2	Yes	+MA	+MA	+MB	+HA	<i>L.welshimeri</i>	+	+HA	+HB	No	B+	+	+	7711		<i>L.welshimeri</i>	+	=				
R1	Smoked salmon from Norway	SP2	Yes	+LA(5)	Ø	+MA	+HA	<i>L.ivanovii</i>	+	+LA	+LA	No	B+	+	+	3210	blue	<i>L.ivanovii</i>	+	=				
E3	Sandwich with tuna	SP3	No	-LE	Ø	-ME	Ø	/	-	Ø	-LE	/	/	/	/	/	/	/	/	/	/	/	-	=
F22	Pasta salad with crab	SP3	No	Ø	-ME	-ME	-ME	/	-	-LE	-LE	/	/	/	/	/	/	/	/	/	/	/	-	=
G4	Terrine of cod and salmon with small vegetables	SP3	No	Ø	Ø	-LE	Ø	/	-	Ø	-LE	/	/	/	/	/	/	/	/	/	/	/	-	=
M19	Scallop	SP3	No	+MA	+MA	+MB	+MB	<i>L.welshimeri</i>	+	+MB	+MB	No	B+	+	+	7711		<i>L.welshimeri</i>	+	=				
K9	Scallop and mixed vegetables	SP3	No	Ø	Ø	Ø	Ø	/	-	Ø	-LE	/	/	/	/	/	/	/	/	/	/	/	-	=
K23	Schrimps with exotic sauce	SP3	No	-ME	Ø	Ø	Ø	/	-	-ME	-ME	/	/	/	/	/	/	/	/	/	/	/	-	=
L28	Crab and vegetables salad	SP3	No	+LA(3)	-LE	-ME	-HE	<i>Bacillus</i>	+	+LA	-LE	Yes	B+	+	/	/	/	/	/	/	/	/	-	=
O10	Fish paupiette	SP3	Yes	+MA	+MA	+MA	+HA	<i>L.innocua</i>	+	+MA	+MA	No	B+	+	+	7510		<i>L.innocua</i>	+	=				
O12	Schrimps with potatoes	SP3	Yes	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	-	=
O13	Crayfish, quinoa and avocado	SP3	Yes	+LD	+LB	+MB	+HB	<i>L.innocua</i>	+	+MD	+MD	/	/	/	/	/	/	/	/	/	/	/	+	=
P14	Roll surimi avocado and rice	SP3	Yes	+MA	+MB	+MB	+MB	<i>L.innocua</i>	+	+MA	+MB	No	B+	+	+	7510		<i>L.innocua</i>	+	=				
P15	Cod fillet with cream	SP3	Yes	+MA	+MA	+MA	+HA	<i>L.innocua</i>	+	+MA	+MA	No	B+	+	+	7510		<i>L.innocua</i>	+	=				
Q10	Mussels in white wine	SP3	Yes	+LA	+MB	+MA	+MB	<i>L.welshimeri</i>	+	+HA	+HA	No	B+	+	+	7711		<i>L.welshimeri</i>	+	=				

Vegetables

Code	Sample	Cat	Artif.	Reference method EN ISO 11290-1 #					Alternative method OAA										Result <i>Listeria</i> other than <i>monocytogenes</i>	Comparison	
				Fraser 1/2		Fraser		Identifications	Result <i>Listeria</i> other than <i>monocytogenes</i>	Streaking		Confirmations						Result <i>Listeria</i> other than <i>monocytogenes</i>			
				O&A1	P1	O&A2	P2			22H	+48H at 2-8°C	Purif (Y/N)	GRAM	Catalase	PALCAM	Api List	RAPIDEC				Identifications
A11	Frozen spinashes	VP1	No	+MB*	+HA	+MB*	+MB*	<i>L.monocytogenes</i> * <i>L.innocua</i>	+	+MB*	+MB*	No Yes	B+	+	+	7510	green yellow	<i>L.monocytogenes</i> * <i>L.innocua</i>	+	=	
B1	Frozen french pies	VP1	No	+LB*	+LB*	+MB*	+LB*	<i>L.monocytogenes</i> * <i>L.seeligeri</i>	+	+MB	+MB*	No No	B+	+	+	6510 3310	green colourless	* <i>L.monocytogenes</i> <i>L.seeligeri</i>	+	=	
C13	Frozen spinashes	VP1	No	+LA	+LA(2)	+MA	+HB	<i>L.innocua</i>	+	+MD	+MD	Yes	B+	+	+	7510		<i>L.innocua</i>	+	=	
E35	Frozen green beans	VP1	Yes	+MA	+MA	+MB	+MB	<i>L.innocua</i>	+	+MA	+MA	No	B+	+	+	7510		<i>L.innocua</i>	+	=	
E36	Frozen vegetables	VP1	Yes	+MB	+MB	+MA	+MB	<i>L.innocua</i>	+	+MB	+MB	No	B+	+	+	7510		<i>L.innocua</i>	+	=	
H6	Frozen french pies	VP1	No	+LB	Ø	Ø	-LE	<i>L.grayi</i>	+	+LB	+LB	Yes	B+	+	+	3120		<i>L.grayi</i>	+	=	
H9	Frozen browned potatoes	VP1	No	+MB	-LE	+MB	+MB	<i>L.seeligeri</i>	+	+MB	+MB	Yes Yes	B+ B+	+	+	3120 3310		<i>L.grayi</i> <i>L.seeligeri</i>	+	=	
L15	Purely potatoes	VP1	No	+LB	Ø	-LE	-LE	<i>L.grayi</i>	+	+MA	+MA	No	B+	+	+	7120		<i>L.grayi</i>	+	=	
L16	Purely potatoes	VP1	No	+MB*	+MB*	+MB*	+MB*	<i>L.monocytogenes</i> * <i>L.innocua</i>	+	+MB*	+MB*	No No	B+	+	+	6510 7510	green	<i>L.monocytogenes</i> * <i>L.innocua</i>	+	=	
P2	French pies	VP1	No	+MA	+MB	+MA	+MB	<i>L.innocua</i>	+	+MA	+MB	No	B+	+	+	7510		<i>L.innocua</i>	+	=	
G14	Frozen french pies	VP1	No	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	-	=
M16	Green peas	VP1	No	Ø	Ø	Ø	Ø	/	-	Ø	-LE	/	/	/	/	/	/	/	/	-	=
N23	Frozen french pies	VP1	No	Ø	Ø	Ø	Ø	/	-	Ø	-LE	/	/	/	/	/	/	/	/	-	=
N25	Precooked potatoes	VP1	No	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	-	=
N26	Frozen french pies	VP1	No	Ø	-LE	-ME	-LE	/	-	-LE	-LE	/	/	/	/	/	/	/	/	-	=
C18	Grated carrots	VP2	No	+LB(1)	-LE	+LB(2)	+MD	<i>L.seeligeri</i>	+	+LA(2)	+LB(2)	No	B+	+	+	2310		<i>L.seeligeri</i>	+	=	
C23	Beet	VP2	No	+LB	+LB	+MA	+LB*	<i>L.seeligeri</i>	+	+MB	+MB	Yes	B+	+	+	3310		<i>L.seeligeri</i>	+	=	
C24	Cucumber	VP2	No	Ø	Ø	Ø	Ø	/	-	Ø	-LE	/	/	/	/	/	/	/	/	-	=
D1	Mixed vegetables	VP2	No	Ø	-LE	Ø	-ME	/	-	Ø	Ø	/	/	/	/	/	/	/	/	-	=
E32	Grated carrots	VP2	Yes	+MA	+MA	+MB	+HA	<i>L.innocua</i>	+	+MA	+MB	No	B+	+	+	7510		<i>L.innocua</i>	+	=	
E33	Red cabbage	VP2	Yes	Ø	+LA(1)	+MA	+HA	<i>L.innocua</i>	+	+LA	+LB	No	B+	+	+	7510		<i>L.innocua</i>	+	=	
E34	Salad	VP2	Yes	+LB	+MB	+MB	+MB	<i>L.innocua</i>	+	+MB	+MB	No	B+	+	+	7510		<i>L.innocua</i>	+	=	
G24	"Patata paja"	VP2	No	+LA	+LB	+MB	+MB	<i>pas de L.grayi</i> <i>L.monocytogenes</i>	-	+MB*	+MB*	Yes Yes	B+ B+	+	+	6120 6510	green	<i>L.grayi</i> <i>L.monocytogenes</i>	+	PS	
H2	Mushrooms	VP2	No	-LE	Ø	-LE	Ø	/	-	-ME	-ME	/	/	/	/	/	/	/	/	-	=
M9	Beet	VP2	No	+LB	+LA	+MA	+HA	<i>L.welshimeri</i>	+	+LA	+LB	No	B+	+	+	7711		<i>L.welshimeri</i>	+	=	
M11	Beet	VP2	No	Ø	Ø	-LE	-LE	/	-	Ø	Ø	/	/	/	/	/	/	/	/	-	=
N12	Salad	VP2	Yes	-ME	Ø	Ø	Ø	/	-	Ø	-ME	/	/	/	/	/	/	/	/	-	=
N13	Salad	VP2	Yes	Ø	Ø	Ø	Ø	/	-	Ø	-LE	/	/	/	/	/	/	/	/	-	=
N14	Beet	VP2	Yes	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	-	=
O21	Beet	VP2	No	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	-	=
O22	Beet	VP2	No	-LE	Ø	Ø	Ø	/	-	Ø	-LE	/	/	/	/	/	/	/	/	-	=
P1	Mushrooms	VP2	No	Ø/-LE	Ø	-ME	Ø	/	-	Ø	-LE	/	/	/	/	/	/	/	/	-	=
P5	Grated carrots	VP2	Yes	Ø	Ø	Ø	Ø	/	-	Ø	-LE	/	/	/	/	/	/	/	/	-	=
W5	Salad	VP2	Yes	+LA	+LA	+MB	+MB	<i>L.ivanovii</i>	+	+MA	+MB	No				3350	blue	<i>L.ivanovii</i>	+	=	
W6	Salad	VP2	Yes	+LA	+LA	+MB	+MB	<i>L.ivanovii</i>	+	+MA	+MB	No				3350	blue	<i>L.ivanovii</i>	+	=	
W7	Salad	VP2	Yes	+MA	+MA	+MA	+MA	<i>L.innocua</i>	+	+MA	+HA								<i>L.innocua</i>	+	=
W8	Salad	VP2	Yes	+MA	+MA	+MA	+MA	<i>L.innocua</i>	+	+MA	+HA								<i>L.innocua</i>	+	=
W9	Salad	VP2	No	Ø	Ø	Ø	Ø	/	-	Ø	-ME	/	/	/	/	/	/	/	/	-	=
W14	Carrots	VP2	Yes	+LB	+LB	+MB	+MB	<i>L.ivanovii</i>	+	+MB	+HB	No				3350	blue	<i>L.ivanovii</i>	+	=	

Vegetables

Code	Sample	Cat	Artif.	Reference method EN ISO 11290-1 #						Alternative method OAA										Result <i>Listeria other than monocytogenes</i>	Comparison
				Fraser 1/2		Fraser		Identifications	Result <i>Listeria other than monocytogenes</i>	Streaking		Confirmations						Identifications			
				O&A1	P1	O&A2	P2			22H	+48H at 2-8°C	Purif (Y/N)	GRAM	Catalase	PALCAM	Api List	RAPIDEC				
C2	Mushrooms with sauce	VP3	No	-LE	-LE	-ME	-ME	/	-	+LB	-LE	No	B+	+	jaune		colourless	Bacillus	-	= (FP)	
D3	Potatoes / tomatoes / salad	VP3	No	-LE	-ME	-LE	-ME	/	-	Ø	-LE	/	/	/	/	/	/	/	-	=	
D4	Salmon - avocado salad	VP3	No	-LE	-LE	-ME	-HE	/	-	-LE	-ME	/	/	/	/	/	/	/	-	=	
E20	Tabbouleh	VP3	No	-LE	-LE	-LE	-HE	/	-	-ME	-ME	/	/	/	/	/	/	/	-	=	
E30	Cooked carrots	VP3	Yes	+MA	+MB	+MA	+HA	<i>L.innocua</i>	+	+MA	+MA	No	B+	+	+	7510		<i>L.innocua</i>	+	=	
E31	Mixed vegetables	VP3	Yes	+MA	+MA	+MB	+HB	<i>L.innocua</i>	+	+MA	+MA	No	B+	+	+	7510		<i>L.innocua</i>	+	=	
H3	Carrots, tomatoes, celery	VP3	No	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	-	=	
H16	Grated carrots	VP3	No	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	-	=	
H19	Grated carrots	VP3	No	Ø	Ø	Ø	Ø	/	-	Ø	-ME	/	/	/	/	/	/	/	-	=	
J8	Grated carrots and celery	VP3	No	Ø	Ø	-LE	-ME	/	-	Ø	Ø	/	/	/	/	/	/	/	-	=	
J9	Corn and carrots with vinaigrette sauce	VP3	No	Ø	-LE	Ø	-ME	/	-	Ø	-LE	/	/	/	/	/	/	/	-	=	
J14	Salad, tomatoes and potatoes	VP3	No	Ø	Ø	Ø	-ME	/	-	Ø	-LE	/	/	/	/	/	/	/	-	=	
J28	Salad, leek and tomatoes	VP3	No	Ø	-LE	Ø	-ME	/	-	Ø	-LE	/	/	/	/	/	/	/	-	=	
M7	Vegetables pan fry	VP3	No	+LC*	+LB*	+MA	+MB	<i>L.monocytogenes</i> <i>*L.innocua</i>	+	+MC*	+MD*	No	B+	+	+	6510 7511	green	<i>L.monocytogenes</i> <i>*L.innocua</i>	+	=	
M8	Tabbouleh	VP3	No	+MB	+MA	+MB	+HB	<i>L.welshimeri</i>	+	+HA	+HB	No	B+	+	+	7711		<i>L.welshimeri</i>	+	=	
N15	Zucchini	VP3	Yes	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	-	=	
P3	Zucchini with curry sauce	VP3	Yes	Ø	Ø	Ø	Ø	/	-	+LA(2)	+LB(2)	No	B+	+	+	7711		<i>L.welshimeri</i>	+	PS	
P4	Salad, sweet pepper, zucchinis	VP3	Yes	+MB	+LC	+MA	+MB	<i>L.welshimeri</i>	+	+MB	+MB	No	B+	+	+	7711		<i>L.welshimeri</i>	+	=	
P6	Cauliflower	VP3	Yes	Ø	Ø	+MA	+MB	<i>L.welshimeri</i>	+	Ø	Ø	/	/	/	/	/	/	/	-	FN	
P7	Vegetables pan fry	VP3	Yes	Ø	-LE	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	-	=	
Q6	Celery	VP3	No	-LE	-LE	-ME	-ME	/	-	-ME	-ME	/	/	/	/	/	/	/	-	=	
R4	Mixed vegetables	VP3	Yes	+LB	+LA(2)	+MA	+MA	<i>L.innocua</i>	+	+MB	+MB	No	B+	+	+	7510		<i>L.innocua</i>	+	=	
R5	Cooked carrots	VP3	Yes	+MA	+MA	+MA	+HA	<i>L.innocua</i>	+	+MA	+MB	No	B+	+	+	7510		<i>L.innocua</i>	+	=	

Code	Sample	Cat	Artif.	Reference method EN ISO 11290-1 #						Alternative method OAA											Comparison			
				Fraser 1/2		Fraser		Identifications	Result <i>Listeria</i> other than <i>monocytogenes</i>	Streaking		Confirmations							Result <i>Listeria</i> other than <i>monocytogenes</i>					
				O&A1	P1	O&A2	P2			22H	+48H at 2-8°C	Purif (Y/N)	GRAM	Catalase	PALCAM	Api List	RAPIDEC			Identifications				
B16	Vegetables washing water	EN1	No	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	-	=
C14	Washing water from dirty tank	EN1	No	+MA	+LA	+MA	+MB	<i>L.innocua</i>	+	+MA	+MA	No	B+	+	+	7510				<i>L.innocua</i>	+	=		
C15	Stagnant water	EN1	No	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	-	=
E37	Iced water	EN1	Yes	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	-	=
E38	New water	EN1	Yes	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	-	=
E39	Process water	EN1	Yes	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	-	=
E40	Process water	EN1	Yes	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	-	=
I12	Water from preparation tank	EN1	Yes	Ø	+LA(1)	+MA	+MA	<i>L.innocua</i>	+	+LA(2)	+LA(2)	No	B+	+	+	7510				<i>L.innocua</i>	+	=		
M21	Process water	EN1	No	+MB	+MA	+MA	+MB	<i>L.innocua</i>	+	+MB	+MB	No	B+	+	+	7510				<i>L.innocua</i>	+	=		
N21	Process water	EN1	No	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	-	=
N24	Rinsing water	EN1	No	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	-	=
O20	Vegetables rinsing water	EN1	No	Ø	Ø	Ø	Ø	/	-	Ø	-LE	/	/	/	/	/	/	/	/	/	/	/	-	=
O25	Process water	EN1	Yes	+LA	+LA	+MA	+MB	<i>L.innocua</i>	+	+MA	+MA	No	B+	+	+	7110				<i>L.innocua</i>	+	=		
O26	Iced water	EN1	Yes	+LA	+LA	+MA	+MA	<i>L.innocua</i>	+	+MA	+MA	No	B+	+	+	7110				<i>L.innocua</i>	+	=		
O27	Sewage	EN1	No	-LE/-ME	-ME	Ø	Ø	/	-	-ME	-ME	/	/	/	/	/	/	/	/	/	/	/	-	=
Q11	Process water	EN1	Yes	+MA	+MA	+MA	+MA	<i>L.innocua</i>	+	+MA	+MA	No	B+	+	+	7110				<i>L.innocua</i>	+	=		
Q12	Process water	EN1	Yes	+MA	+MA	+HA	+HA	<i>L.innocua</i>	+	+MA	+MA	No	B+	+	+	7110				<i>L.innocua</i>	+	=		
W1	Process water	EN1	Yes	+LA	+MA	+MA	+MA	<i>L.innocua</i>	+	+HA	+HA	No	B+	+	+	7110				<i>L.innocua</i>	+	=		
W2	Process water	EN1	Yes	+MA	+MA	+MA	+MA	<i>L.innocua</i>	+	+HA	+HA	No	B+	+	+	7110				<i>L.innocua</i>	+	=		
W3	Process water	EN1	Yes	+MA	+MA	+MA	+MA	<i>L.innocua</i>	+	+HA	+HA	No	B+	+	+	7110				<i>L.innocua</i>	+	=		
W4	Process water	EN1	Yes	+MA	+MA	+MA	+MA	<i>L.innocua</i>	+	+MA	+HA	No	B+	+	+	7110				<i>L.innocua</i>	+	=		
B15	Packing machine surface	EN2	No	Ø	Ø	-LE	Ø	/	-	Ø	-LE	/	/	/	/	/	/	/	/	/	/	/	-	=
C16	Conveyor surface	EN2	No	+MB*	+MB*	+MB*	+MB	<i>L.monocytogenes</i> * <i>L.innocua</i>	+	+MB*	+MB*	Yes No	B+	+	+	6510 7110	green			* <i>L.monocytogenes</i> <i>L.innocua</i>	+	=		
F5	Surface plant	EN2	No	-ME	-ME	-LE	-LE	/	-	-ME	-ME	/	/	/	/	/	/	/	/	/	/	/	-	=
G28	Surface plant	EN2	No	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	-	=
G29	Surface working table	EN2	No	Ø	Ø	-LE	Ø	/	-	-LE	-LE	/	/	/	/	/	/	/	/	/	/	/	-	=
G30	Surface cutting machine	EN2	No	Ø	Ø	Ø	Ø	/	-	Ø	-LE	/	/	/	/	/	/	/	/	/	/	/	-	=
H27	Surface cutting table	EN2	No	+LB*	+MB*	+MB*	+MB*	<i>L.monocytogenes</i> * <i>L.welshimeri</i>	+	+MB*	+MB*	No No	B+	+	+	6510 7711	green			<i>L.monocytogenes</i> * <i>L.welshimeri</i>	+	=		
H29	Surface cutting machine	EN2	No	Ø	-LE	Ø	-ME	/	-	-LE	-ME	/	/	/	/	/	/	/	/	/	/	/	-	=
H32	Surface stainless table	EN2	No	-LE	Ø	Ø	-LE	/	-	-ME	-ME	/	/	/	/	/	/	/	/	/	/	/	-	=
I8	Surface dirty knife	EN2	No	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	-	=
I9	Surface fillet machine	EN2	No	-LE	Ø	Ø	-LE	/	-	-LE	-LE	/	/	/	/	/	/	/	/	/	/	/	-	=
I14	Surface smoked salmons tank	EN2	Yes	+MA	+MA	+MA	+HA	<i>L.innocua</i>	+	+MA	+MA	No	B+	+	+	7510				<i>L.innocua</i>	+	=		
I15	Surface cutting machine	EN2	Yes	+MB*	+MB*	+MB*	+MB*	<i>L.monocytogenes</i> * <i>L.innocua</i>	+	+MB*	+MB*	No No	B+	+	+	6510 7510	green			<i>L.monocytogenes</i> * <i>L.innocua</i>	+	=		
J24	Surface weighing conveyor	EN2	No	Ø	-LE	-LE	-ME	/	-	Ø	-LE	/	/	/	/	/	/	/	/	/	/	/	-	=
J25	Surface cutting machine	EN2	No	-LE	-ME	-LE	-ME	/	-	-ME	-ME	/	/	/	/	/	/	/	/	/	/	/	-	=
J26	Surface red box	EN2	No	+LB*	+LB	+MB*	+HB	<i>L.monocytogenes</i> * <i>L.innocua</i>	+	+MB*	+MB*	No No	B+	+	+	6510 7510	green			<i>L.monocytogenes</i> * <i>L.innocua</i>	+	=		
J27	Surface waste tank	EN2	No	+MA	+MB	+MB	+MB	<i>L.welshimeri</i>	+	+MA	+MB	No	B+	+	+	7711				<i>L.welshimeri</i>	+	=		
K16	Surface cutting table	EN2	No	+LA	+MA	+MB	+MB	<i>L.welshimeri</i>	+	+MA	+MA	No	B+	+	+	7711				<i>L.welshimeri</i>	+	=		
K17	Surface cutting table	EN2	No	-LE	-LE	-ME	-ME	/	-	-LE	-ME	/	/	/	/	/	/	/	/	/	/	/	-	=
M2	Surface sewer	EN2	No	+MB*	-LE	-ME	-LE	<i>Bacillus</i>	-	+MA	-ME	Yes	B+	+	+	/				<i>Bacillus</i>	-	=		
N19	Surface working table	EN2	No	Ø	Ø	Ø	Ø	/	-	Ø	-LE	/	/	/	/	/	/	/	/	/	/	/	-	=
O28	Surface window in vegetables workshop	EN2	Yes	+LB	+MA	+MB	+HB	<i>L.innocua</i>	+	+MA	+MB	No	B+	+	+	7110				<i>L.innocua</i>	+	=		
O29	Surface in delicatessen retail	EN2	Yes	+MA	+MA	+MA	+MA	<i>L.innocua</i>	+	+MA	+MA	No	B+	+	+	7110				<i>L.innocua</i>	+	=		
O30	Surface siphon	EN2	No	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	/	/	-	=
O31	Surface sewer	EN2	No	Ø/-LE	Ø	-LE	-ME	/	-	Ø	-LE	/	/	/	/	/	/	/	/	/	/	/	-	=
O32	Surface	EN2	No	Ø/-LE	-LE	-LE	-LE	/	-	-LE	-LE	/	/	/	/	/	/	/	/	/	/	/	-	=
O33	Surface cutting table	EN2	No	+MB	-ME	-ME	Ø	<i>Bacillus</i>	-	+MB	-ME	No	B+	+	+	/				<i>Bacillus</i>	-	=		
P22	Surface preparation table	EN2	No	-LE	-ME	Ø	Ø	/	-	-LE	-LE	/	/	/	/	/	/	/	/	/	/	/	-	=
P23	Surface fillets conveyor	EN2	No	Ø/-LE	-ME	Ø	Ø	/	-	-ME	-ME	/	/	/	/	/	/	/	/	/	/	/	-	=
P24	Swab calibration conveyor	EN2	No	-LE	-LE	Ø	Ø	/	-	-ME	-ME	/	/	/	/	/	/	/	/	/	/	/	-	=
Q13	Surface washing plant	EN2	Yes	+MB	+MB	+MB	+HB	<i>L.innocua</i>	+	+MB	+MB	No	B+	+	+	7110				<i>L.innocua</i>	+	=		
Q14	Surface stainless table	EN2	Yes	+MB	+MB	+MB	+HB	<i>L.innocua</i>	+	+MA	+MB	No	B+	+	+	7110				<i>L.innocua</i>	+	=		

Code	Sample	Cat	Artif.	Reference method EN ISO 11290-1 #						Alternative method OAA										Comparison		
				Fraser 1/2		Fraser		Identifications	Result <i>Listeria</i> other than <i>monocytogenes</i>	Streaking		Confirmations						Result <i>Listeria</i> other than <i>monocytogenes</i>				
				O&A1	P1	O&A2	P2			22H	+48H at 2-8°C	Purif (Y/N)	GRAM	Catalase	PALCAM	Api List	RAPIDEC		Identifications			
C17	Scraps dirty tank	EN3	No	+LA	+LA	+MA	+HA	<i>L.welshimeri</i>	+	+MA	+MB	No	B+	+	+	7711		<i>L.welshimeri</i>	+	=		
E14	Scraps fishes dirty tank	EN3	No	Ø	Ø	Ø	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	-	=
F18	Scraps dirty tank	EN3	No	Ø	Ø	Ø	-LE	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	-	=
G27	Scraps fabrication line	EN3	No	-LE	Ø	-LE	Ø	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	-	=
H28	Scraps floor	EN3	No	Ø	-LE	Ø	-ME	/	-	-LE	-ME	/	/	/	/	/	/	/	/	/	-	=
H30	Scraps working table	EN3	No	Ø	Ø	Ø	Ø	/	-	Ø	-ME	/	/	/	/	/	/	/	/	/	-	=
I7	Scraps cutting machine	EN3	No	Ø	Ø	Ø	-LE	/	-	Ø	Ø	/	/	/	/	/	/	/	/	/	-	=
I11	Scraps cutting machine	EN3	Yes	+MA	+MA	+MB	+MB	<i>L.innocua</i>	+	+MA	+MB	No	B+	+	+	7510		<i>L.innocua</i>	+	=		
I16	Scraps convoyeur déchets smoked salmon line	EN3	Yes	+MB*	+MB*	+MB*	+MB*	<i>L.monocytogenes</i> * <i>L.innocua</i>	+	+MB*	+MB*	No	B+	+	+	6510 7510	green	<i>L.monocytogenes</i> * <i>L.innocua</i>	+	=		
J22	Scraps dirty tank	EN3	No	+MA	+MA	+MA	+HA	<i>L.welshimeri</i>	+	+MA	+MA	No	B+	+	+	7711		<i>L.welshimeri</i>	+	=		
J23	Scraps fabrication line	EN3	No	+LA	+LA	+MA	+HA	<i>L.welshimeri</i>	+	+MA	+MB	No	B+	+	+	7711		<i>L.welshimeri</i>	+	=		
L29	Scraps cutting machine	EN3	No	+MB ?	-LE	-ME	-HE	<i>Bacillus</i>	-	+MC	-ME	Yes	B+	+	/	/	/	/	/	<i>Bacillus</i>	-	=
L30	Scraps cutting tank	EN3	No	+MB	+LA	+MA	+HA	<i>L.welshimeri</i>	+	+MB	+MB	No	B+	+	+	7711		<i>L.welshimeri</i>	+	=		
M1	Scraps cutting machine	EN3	No	+MC	+MC	+MB	+MB	<i>L.welshimeri</i>	+	+MB	+MB	Yes	B+	+	+	7711		<i>L.welshimeri</i>	+	=		
N16	Scraps waste tank	EN3	No	+MB	+MA	+MB	+HB	<i>L.innocua</i>	+	+MB	+MB	No	B+	+	+	7510		<i>L.innocua</i>	+	=		
N18	Scraps siphon	EN3	No	+MB	-LE	-ME	-LE	<i>Bacillus</i>	-	+MB	-ME	No	B+	/	/	/	/	/	/	<i>Bacillus</i>	-	=
O18	Scraps retail	EN3	No	+MA	+MA	+MA	+HA	<i>L.welshimeri</i>	+	+MA	+MA	No	B+	+	+	7711		<i>L.welshimeri</i>	+	=		
O19	Scraps vegetables fabrication line	EN3	No	-LE	Ø	-LE	Ø	/	-	Ø	-ME	/	/	/	/	/	/	/	/	/	-	=
O24	Scraps floor	EN3	No	Ø	Ø	Ø	Ø	/	-	-ME	-ME	/	/	/	/	/	/	/	/	/	-	=
P20	Scraps	EN3	No	+MA	+MA	+MB	+MB	<i>L.innocua</i>	+	+MA	+MB	No	B+	+	+	7510		<i>L.innocua</i>	+	=		
P21	Scraps	EN3	No	Ø	-LE	Ø	Ø	/	-	-LE	-LE	/	/	/	/	/	/	/	/	/	-	=
W10	Scraps	EN3	Yes	+LA	+LA	+MB	+MB	<i>L.ivanovii</i>	+	+MA	+MB	No				3350	blue	<i>L.ivanovii</i>	+	=		
W11	Scraps	EN3	Yes	+LA	+LA	+MA	+MA	<i>L.innocua</i>	+	+LA	+MB									<i>L.innocua</i>	+	=
W12	Scraps	EN3	No	-LE	Ø	-LE	-LE	/	-	-LE	-ME	/	/	/	/	/	/	/	/	/	-	=
W13	Scraps	EN3	No	Ø	Ø	Ø	Ø	/	-	Ø	-LE	/	/	/	/	/	/	/	/	/	-	=

## APPENDIX D:

### INCLUSIVITY / EXCLUSIVITY

	Strain	Origin	Aspect on OAA plate after 24h of incubation at 37°C
L81	<i>Listeria grayi</i>	ATCC 19120	blue colony without halo
L143	<i>Listeria grayi</i>	Frozen french pies	blue colony without halo
L146	<i>Listeria grayi</i>	CIP 103 213	blue colony without halo
L147	<i>Listeria grayi</i>	ATCC 25401	blue colony without halo
L1	<i>Listeria innocua</i> 6a	ATCC 33090	blue colony without halo
L3	<i>Listeria innocua</i>	Ox liver	blue colony without halo
L64	<i>Listeria innocua</i>	Epoisses cheese	blue colony without halo
L78	<i>Listeria innocua</i>	Cockerel	blue colony without halo
L66	<i>Listeria innocua</i>	Spinashes	blue colony without halo
L71	<i>Listeria innocua</i>	Munster cheese	blue colony without halo
L72	<i>Listeria innocua</i>	Boulettes d'Avesnes cheese	blue colony without halo
L78	<i>Listeria innocua</i>	Cockerel	blue colony without halo
L108	<i>Listeria innocua</i>	Gorgonzola cheese	blue colony without halo
L113	<i>Listeria innocua</i>	Smoked halibut	blue colony without halo
L114	<i>Listeria innocua</i>	Lake water	blue colony without halo
L175	<i>Listeria innocua</i>	Environmental water	blue colony without halo
L77	<i>Listeria innocua</i> 6a	Toulouse sausage	blue colony without halo
L76	<i>Listeria innocua</i> 6b	Ground meat	blue colony without halo
L80	<i>Listeria ivanovii</i>	Collection	blue colony with halo
L133	<i>Listeria ivanovii</i>	Roquefort cheese	blue colony with halo
L150	<i>Listeria ivanovii</i>	Dairy product	blue colony with halo
L151	<i>Listeria ivanovii</i>	Ground meat	blue colony with halo
L153	<i>Listeria ivanovii</i>	Environmental sample	blue colony with halo
L154	<i>Listeria ivanovii</i>	Sausage with herbs	blue colony with halo
L158	<i>Listeria ivanovii</i>	NSB 79332	blue colony with halo
L171	<i>Listeria ivanovii</i>	NSB 22442	blue colony with halo
L172	<i>Listeria ivanovii</i>	ATCC 19119	blue colony with halo
L173	<i>Listeria ivanovii</i>	Collection	blue colony with halo
L177	<i>Listeria ivanovii</i>	Net	blue colony with halo
L178	<i>Listeria ivanovii</i>	Tank	blue colony with halo
L179	<i>Listeria ivanovii</i>	Environment	blue colony with halo
L180	<i>Listeria ivanovii</i>	Net	blue colony with halo
L182	<i>Listeria ivanovii</i>	Tank	blue colony with halo
L185	<i>Listeria ivanovii</i>	Net	blue colony with halo
L157	<i>Listeria ivanovii</i> spp. <i>ivanovii</i>	Collection	blue colony with halo (48h)
L159	<i>Listeria ivanovii</i> spp. <i>ivanovii</i>	Collection	blue colony with halo
L160	<i>Listeria ivanovii</i> spp. <i>ivanovii</i>	NSB 22439	blue colony with halo
L161	<i>Listeria ivanovii</i> spp. <i>ivanovii</i>	Meat product	blue colony with halo
L162	<i>Listeria ivanovii</i> spp. <i>ivanovii</i>	ATCC 700402	blue colony with halo
L163	<i>Listeria ivanovii</i> spp. <i>ivanovii</i>	Meat product	blue colony with halo
L164	<i>Listeria ivanovii</i> spp. <i>londoniensis</i>	Floor	blue colony with halo
L165	<i>Listeria ivanovii</i> spp. <i>londoniensis</i>	Collection	blue colony with halo
L166	<i>Listeria ivanovii</i> spp. <i>londoniensis</i>	Collection	blue colony with halo
L167	<i>Listeria ivanovii</i> spp. <i>londoniensis</i>	Cheese	blue colony with halo
L168	<i>Listeria ivanovii</i> spp. <i>londoniensis</i>	Water	blue colony with halo
L169	<i>Listeria ivanovii</i> spp. <i>londoniensis</i>	Sewage sludge	blue colony with halo
L170	<i>Listeria ivanovii</i> spp. <i>londoniensis</i>	Collection	blue colony with halo
L84	<i>Listeria seeligeri</i>	Ground meat	blue colony without halo
L85	<i>Listeria seeligeri</i>	Collection	blue colony without halo
L115	<i>Listeria seeligeri</i>	Lake water	blue colony without halo
L140	<i>Listeria seeligeri</i>	Frozen french pies	blue colony without halo
L142	<i>Listeria seeligeri</i>	Raw milk cheese	blue colony without halo
L82	<i>Listeria seeligeri</i> 1/2b	ATCC 35967	blue colony without halo
L83	<i>Listeria seeligeri</i> 1/2b	Beef tongue	blue colony without halo
L89	<i>Listeria welshimeri</i> 6a	Ground meat	blue colony without halo
L86	<i>Listeria welshimeri</i> 6b	ATCC 35897	blue colony without halo
L87	<i>Listeria welshimeri</i> 6b	Ground meat	blue colony without halo
L101	<i>Listeria welshimeri</i>	Ham	blue colony without halo
L91	<i>Listeria welshimeri</i>	Pure pork slicing sausage	blue colony without halo
L99	<i>Listeria welshimeri</i>	Sausages	blue colony without halo
L100	<i>Listeria welshimeri</i>	Pâté	blue colony without halo
L195	<i>Listeria welshimeri</i>	Roquefort cheese	blue colony without halo

	Strain	Origin	Aspect on OAA plate after 24h of incubation at 37°C
L4	<i>Listeria monocytogenes</i> 1/2a	ATCC 35152	blue colony with halo
L5	<i>Listeria monocytogenes</i> 1/2a	Pieces of smoked salmon	blue colony with halo
L6	<i>Listeria monocytogenes</i> 1/2a	Pizza	blue colony with halo
L7	<i>Listeria monocytogenes</i> 1/2a	Munster cheese (rind)	blue colony with halo
L9	<i>Listeria monocytogenes</i> 1/2a	Munster cheese (rind)	blue colony with halo
L10	<i>Listeria monocytogenes</i> 1/2a	Rillettes	blue colony with halo
L11	<i>Listeria monocytogenes</i> 1/2a	Munster cheese (rind)	blue colony with halo
L12	<i>Listeria monocytogenes</i> 1/2a	Smoked salmon	blue colony with halo
L13	<i>Listeria monocytogenes</i> 1/2b	Pork ear	blue colony with halo
L14	<i>Listeria monocytogenes</i> 1/2c	Ground meat	blue colony with halo
L15	<i>Listeria monocytogenes</i> 1/2c	Beef meat	blue colony with halo
L16	<i>Listeria monocytogenes</i> 1/2c	Ground meat	blue colony with halo
L17	<i>Listeria monocytogenes</i> 1/2c	Bacon	blue colony with halo
L18	<i>Listeria monocytogenes</i> 1/2c	Munster cheese (rind)	blue colony with halo
L20	<i>Listeria monocytogenes</i> 1/2	Smoked salmon	blue colony with halo
L21	<i>Listeria monocytogenes</i> 1/2	Bacon	blue colony with halo
L22	<i>Listeria monocytogenes</i> 1/2	Bacon	blue colony with halo
L23	<i>Listeria monocytogenes</i> 1/2	Pork breast	blue colony with halo
L24	<i>Listeria monocytogenes</i> 1/2	Pork meat	blue colony with halo
L25	<i>Listeria monocytogenes</i> 1/2	Chicken	blue colony with halo
L26	<i>Listeria monocytogenes</i> 1/2	Saucisson	blue colony with halo
L27	<i>Listeria monocytogenes</i> 1/2	Saucisson	blue colony with halo
L28	<i>Listeria monocytogenes</i> 1/2c	Environment sample	blue colony with halo
L29	<i>Listeria monocytogenes</i> 1/2	Potatoe	blue colony with halo
L30	<i>Listeria monocytogenes</i> 1/2	Yeast	blue colony with halo
L31	<i>Listeria monocytogenes</i> 1/2	Parsley	blue colony with halo
L32	<i>Listeria monocytogenes</i> 4b	Munster cheese (rind)	blue colony with halo
L33	<i>Listeria monocytogenes</i> 4b	ATCC 19115	blue colony with halo
L34	<i>Listeria monocytogenes</i>	Yeast	blue colony with halo
L35	<i>Listeria monocytogenes</i>	Brie de Meaux cheese	blue colony with halo
L36	<i>Listeria monocytogenes</i>	Pork meat	blue colony with halo
L37	<i>Listeria monocytogenes</i> 1/2b	Maroille cheese	blue colony with halo
L38	<i>Listeria monocytogenes</i>	Coulommier cheese	blue colony with halo
L39	<i>Listeria monocytogenes</i>	Saucisson	blue colony with halo
L40	<i>Listeria monocytogenes</i> 1/2a	Munster cheese (rind)	blue colony with halo
L42	<i>Listeria monocytogenes</i> 1/2a	Chicken meat	blue colony with halo
L43	<i>Listeria monocytogenes</i> 1/2a	Ground meat	blue colony with halo
L44	<i>Listeria monocytogenes</i> 1/2a	Saucisson	blue colony with halo
L45	<i>Listeria monocytogenes</i> 1/2a	Wind terrine	blue colony with halo
L47	<i>Listeria monocytogenes</i> 1/2a	Browed potatoes	blue colony with halo
L48	<i>Listeria monocytogenes</i> 1/2b	Pork tongue	blue colony with halo
L49	<i>Listeria monocytogenes</i> 1/2b	Poultry pâté	blue colony with halo
L51	<i>Listeria monocytogenes</i> 1/2b	Germain cheese	blue colony with halo
L52	<i>Listeria monocytogenes</i> 1/2b	SLCC 2755	blue colony with halo
L53	<i>Listeria monocytogenes</i> 1/2c	Ground meat	blue colony with halo
L54	<i>Listeria monocytogenes</i> 1/2c	Meat product	blue colony with halo
L55	<i>Listeria monocytogenes</i> 3b	SLCC 2540	blue colony with halo
L56	<i>Listeria monocytogenes</i> 3c	SLCC 2479	blue colony with halo
L57	<i>Listeria monocytogenes</i> 4a	ATCC 19114	blue colony with halo
L58	<i>Listeria monocytogenes</i> 4b	Salad	blue colony with halo
L59	<i>Listeria monocytogenes</i> 4b	ATCC 19115	blue colony with halo
L60	<i>Listeria monocytogenes</i> 4d	ATCC	blue colony with halo
L61	<i>Listeria monocytogenes</i> 4e	ATCC 19118	blue colony with halo
L62	<i>Listeria monocytogenes</i> 4e	Reblochon cheese	blue colony with halo
L63	<i>Listeria monocytogenes</i> 4e	Munster cheese (rind)	blue colony with halo
L67	<i>Listeria monocytogenes</i> 7	SLCC 2482	blue colony with halo
L69	<i>Listeria monocytogenes</i>	Saucisson	blue colony with halo
L70	<i>Listeria monocytogenes</i>	Salmon from Ireland	blue colony with halo

	Strain	Origin	Aspect on OAA plate after 24h of incubation at 37°C
L116	<i>Listeria monocytogenes</i> 1/2a	Fish meal	blue colony with halo
L117	<i>Listeria monocytogenes</i> 1/2c	Montbeliard sausage	blue colony with halo
L118	<i>Listeria monocytogenes</i> 1/2a	Smoked salmon	blue colony with halo
L119	<i>Listeria monocytogenes</i>	Spinashes	blue colony with halo
L120	<i>Listeria monocytogenes</i>	Munster cheese	blue colony with halo
L121	<i>Listeria monocytogenes</i>	Neufchatel cheese	blue colony with halo
L122	<i>Listeria monocytogenes</i>	Soya	blue colony with halo
L123	<i>Listeria monocytogenes</i>	Mozzarella cheese	blue colony with halo
L124	<i>Listeria monocytogenes</i>	Perch fillet	blue colony with halo
L125	<i>Listeria monocytogenes</i>	Vegetables pan fry	blue colony with halo
L126	<i>Listeria monocytogenes</i>	Munster cheese	blue colony with halo
L127	<i>Listeria monocytogenes</i> 1/2a	Feed	blue colony with halo
L128	<i>Listeria monocytogenes</i> 1/2a	Soya cattle cake	blue colony with halo
L129	<i>Listeria monocytogenes</i> 1/2a	Browed potatoes	blue colony with halo
L130	<i>Listeria monocytogenes</i>	Ground meat	blue colony with halo
L137	<i>Listeria monocytogenes</i>	Ground meat	blue colony with halo
L138	<i>Listeria monocytogenes</i> 4b	Collection	blue colony with halo
L141	<i>Listeria monocytogenes</i>	Environmental sample	blue colony with halo
L149	<i>Listeria monocytogenes</i>	Environmental sample	blue colony with halo
L152	<i>Listeria monocytogenes</i>	Environmental sample	blue colony with halo
L156	<i>Listeria monocytogenes</i>	French pies	blue colony with halo
L176	<i>Listeria monocytogenes</i>	Beef meat	blue colony with halo
L187	<i>Listeria monocytogenes</i>	Bacon	blue colony with halo
L191	<i>Listeria monocytogenes</i> 3a	Environmental sample	blue colony with halo
L192	<i>Listeria monocytogenes</i> 3a	Environmental sample	blue colony with halo
L193	<i>Listeria monocytogenes</i> 3b	Environmental sample	blue colony with halo
L194	<i>Listeria monocytogenes</i> 4d	Environmental sample	blue colony with halo
L 196	<i>Listeria monocytogenes</i> 1/2c	ATCC 19112	blue colony with halo
L 197	<i>Listeria monocytogenes</i> 3a	ATCC 19113	blue colony with halo
L 198	<i>Listeria monocytogenes</i> 4d	ATCC 19117	blue colony with halo
L 199	<i>Listeria monocytogenes</i>	Frozen vegetables	blue colony with halo
L 200	<i>Listeria monocytogenes</i>	Cod tarama	blue colony with halo
L 201	<i>Listeria monocytogenes</i>	Ground meat	blue colony with halo
L 202	<i>Listeria monocytogenes</i>	Salmon tarama	blue colony with halo
L 203	<i>Listeria monocytogenes</i>	Prawn	blue colony with halo
L 204	<i>Listeria monocytogenes</i>	Bacon	blue colony with halo
L 205	<i>Listeria monocytogenes</i>	Chipolatas	blue colony with halo
L 206	<i>Listeria monocytogenes</i>	Frozen broccoli	blue colony with halo
L 207	<i>Listeria monocytogenes</i>	Ham	blue colony with halo
L 208	<i>Listeria monocytogenes</i>	Mozzarella cheese	blue colony with halo
L 209	<i>Listeria monocytogenes</i>	Ground meat	blue colony with halo
L 210	<i>Listeria monocytogenes</i>	Collection	blue colony with halo
CTML1	<i>Listeria monocytogenes</i> 1/2a	Environment sample	blue colony with halo
CTML2	<i>Listeria monocytogenes</i> 1/2b	Fish cutting machine	blue colony with halo
CTML3	<i>Listeria monocytogenes</i> 1/2a	Herring fillet	blue colony with halo
CTML4	<i>Listeria monocytogenes</i> 4b	Siphon water	blue colony with halo
CTML5	<i>Listeria monocytogenes</i> 1/2a	Siphon water	blue colony with halo
CTML6	<i>Listeria monocytogenes</i> 4b	Siphon waste room	blue colony with halo
CTML7	<i>Listeria monocytogenes</i> 1/2a	Stainless table	blue colony with halo
CTML8	<i>Listeria monocytogenes</i> 4d	Sewage	blue colony with halo
CTML9	<i>Listeria monocytogenes</i> 1/2b	Environmental sample	blue colony with halo
CTML10	<i>Listeria monocytogenes</i> 1/2a	Fish fillet	blue colony with halo
CTML11	<i>Listeria monocytogenes</i> 1/2b	Waste tank	blue colony with halo
CTML12	<i>Listeria monocytogenes</i> 3a	Environmental sample	blue colony with halo
CTML13	<i>Listeria monocytogenes</i> 3b	Salmon	blue colony with halo
CTML14	<i>Listeria monocytogenes</i> 4b	Environmental sample	blue colony with halo
CTML15	<i>Listeria monocytogenes</i> 4b	Salmon	blue colony with halo
CTML16	<i>Listeria monocytogenes</i> 4b	Salmon terrine	blue colony with halo
CTML17	<i>Listeria monocytogenes</i> 3a	Fish fillet	blue colony with halo
CTML18	<i>Listeria monocytogenes</i> 3a	Raw salmon	blue colony with halo
CTML19	<i>Listeria monocytogenes</i> 3a	Salmon	blue colony with halo

	Strain	Origin	Aspect on OAA plate after 24h of incubation at 37°C
CTML20	<i>Listeria monocytogenes</i> 1/2a	Raw salmon with basil	blue colony with halo
CTML21	<i>Listeria monocytogenes</i> 3a	Blinis	blue colony with halo
CTML22	<i>Listeria monocytogenes</i> 1/2c	Smoked salmon	blue colony with halo
CTML23	<i>Listeria monocytogenes</i> 1/2c	Environmental sample	blue colony with halo
CTML24	<i>Listeria monocytogenes</i> 1/2b	Sewer	blue colony with halo
CTML25	<i>Listeria monocytogenes</i> 3a	Salmon	blue colony with halo
CTML26	<i>Listeria monocytogenes</i> 3a	Salmon slice	blue colony with halo
CTML27	<i>Listeria monocytogenes</i> 1/2a	Salmon paupiette with scallops	blue colony with halo
CTML28	<i>Listeria monocytogenes</i> 1/2a	Salmon tartar	blue colony with halo
CTML29	<i>Listeria monocytogenes</i> 1/2a	Salmon fillet	blue colony with halo
CTML30	<i>Listeria monocytogenes</i> 4b	Smoked herring	blue colony with halo
CTML31	<i>Listeria monocytogenes</i> 1/2a	Environmental sample	blue colony with halo
CTML32	<i>Listeria monocytogenes</i> 1/2a	Kipper	blue colony with halo
CTML33	<i>Listeria monocytogenes</i> 1/2a	Smoked tuna	blue colony with halo
CTML34	<i>Listeria monocytogenes</i> 1/2a	Environmental sample	blue colony with halo
CTML35	<i>Listeria monocytogenes</i> 1/2a	Herring fillet	blue colony with halo
CTML36	<i>Listeria monocytogenes</i> 1/2a	Brine	blue colony with halo
CTML37	<i>Listeria monocytogenes</i> 4b	Frozen raw herring	blue colony with halo
CTML38	<i>Listeria monocytogenes</i> 4b	Scraps	blue colony with halo
CTML39	<i>Listeria monocytogenes</i> 4b	Salmon	blue colony with halo
CTML40	<i>Listeria monocytogenes</i> 1/2a	Halibut fillet	blue colony with halo
CTML41	<i>Listeria monocytogenes</i> 1/2a	Frozen halibut	blue colony with halo
CTML42	<i>Listeria monocytogenes</i> 1/2a	Smoked salmon	blue colony with halo
CTML43	<i>Listeria monocytogenes</i> 1/2a	Kipper	blue colony with halo
CTML44	<i>Listeria monocytogenes</i> 1/2c	Raw salmon	blue colony with halo
CTML45	<i>Listeria monocytogenes</i> 1/2c	Salmon skin	blue colony with halo
CTML46	<i>Listeria monocytogenes</i> 1/2c	Environmental sample	blue colony with halo
CTML47	<i>Listeria monocytogenes</i> 1/2c	Environmental sample	blue colony with halo
CTML48	<i>Listeria monocytogenes</i> 1/2a	Floor	blue colony with halo
CTML49	<i>Listeria monocytogenes</i> 3a	Herring terrine	blue colony with halo
CTML50	<i>Listeria monocytogenes</i> 3a	Salmon carpaccio	blue colony with halo
CTML51	<i>Listeria monocytogenes</i> 3a	Herring terrine	blue colony with halo
CTML52	<i>Listeria monocytogenes</i> 1/2a	Salmon fillet	blue colony with halo
CTML53	<i>Listeria monocytogenes</i> 1/2a	Salmon tartar with tomatoes	blue colony with halo

	Strain	Origin	Aspect on OAA plate after 24h of incubation at 37°C
BA20	<i>Bacillus amyloliquefaciens</i>	Tabbouleh	∅
BA1	<i>Bacillus cereus</i>	Whole egg	∅
BA2	<i>Bacillus cereus</i>	Beet	∅
BA3	<i>Bacillus cereus</i>	Collection	∅
BA9	<i>Bacillus cereus</i>	Potatoes flakes	∅
BA14	<i>Bacillus cereus</i>	Egg	∅
BA15	<i>Bacillus cereus</i>	Custard	∅
BA19	<i>Bacillus cereus</i>	Environmental sample	∅
BA21	<i>Bacillus cereus</i>	Tabbouleh	∅
BA18	<i>Bacillus circulans</i>	Custard	∅
BA7	<i>Bacillus coagulans</i>	Collection	∅
BA5	<i>Bacillus megaterium</i>	Collection	∅
BA6	<i>Bacillus mycoides</i>	Collection	∅
BA8	<i>Bacillus licheniformis</i>	Dairy product	∅
BA16	<i>Bacillus licheniformis</i>	Custard	∅
BA13	<i>Bacillus megaterium</i>	Yoghurt	∅
BA17	<i>Bacillus pumilus</i>	Custard	∅
BA22	<i>Bacillus pumilus</i>	Tabbouleh	∅
BA23	<i>Bacillus sphaericus</i>	Collection	blue colony without halo
BA4	<i>Bacillus stearothermophilus</i>	Collection	∅
(E41)	<i>Bacillus spp.</i>	Environmental sample	blue colony without halo
15	<i>Brochotrix thermosphacta</i>	Ground meat	white colony
LE3	<i>Candida albicans</i>	Collection	∅
3	<i>Corynebacterium spp.</i>	Collection	∅
26	<i>Corynebacterium aquaticum</i>	Raw milk cheese	∅
E8	<i>Enterococcus durans</i>	Collection	∅
E10	<i>Enterococcus durans</i>	Collection	blue little colony without halo
E1	<i>Enterococcus faecalis</i>	Egg	∅
E2	<i>Enterococcus faecium</i>	ATCC 3286	∅
E6	<i>Enterococcus faecalis</i>	ATCC 19433	∅
E7	<i>Enterococcus faecium</i>	CIP 543	∅
E9	<i>Enterococcus faecium</i>	Tarama	blue little colony without halo
L139	<i>Jonesia denitrificans</i>	ATCC 55134	blue trace
LAC52	<i>Lactobacillus casei</i>	Collection	white little colony
LAC41	<i>Lactobacillus fermentum</i>	ATCC 9338	∅
LAC5	<i>Lactobacillus reuteri</i>	Dairy product	∅
LAC35	<i>Lactobacillus paracasei</i>	Collection	∅
LAC22	<i>Lactobacillus plantarum</i>	Collection	∅
LAC34	<i>Lactobacillus plantarum</i>	Collection	∅
LAC40	<i>Lactobacillus plantarum</i>	ATCC19435	∅
LAC33	<i>Lactococcus lactis</i>	Collection	white little colony
M5	<i>Micrococcus luteus</i>	Collection	blue little colony without halo
M6	<i>Micrococcus roseus</i>	Collection	translucent colony
M1	<i>Micrococcus spp.</i>	Environmental sample	∅
M3	<i>Micrococcus spp.</i>	Environmental sample	translucent colony
39	<i>Oeiskovia xanthineolytica</i>	Reblochon cheese	blue little colony without halo
LE1	<i>Rhodotorula rubra</i>	Collection	∅
32	<i>Rhodococcus equi</i>	Meat product	blue trace
LE5	<i>Saccharomyces cerevisiae</i>	Coffee extract	∅
STA1	<i>Staphylococcus aureus</i>	Collection	green colony
STA9	<i>Staphylococcus aureus</i>	Giblets	white colony
STA14	<i>Staphylococcus aureus</i>	Giblets	∅
STA16	<i>Staphylococcus aureus</i>	Meat product	∅
STA17	<i>Staphylococcus aureus</i>	Ices yoghurt	∅
STA13	<i>Staphylococcus aureus</i>	ATCC 25923	∅
STA3	<i>Staphylococcus epidermidis</i>	Strawberries yoghurt	∅
STA15	<i>Staphylococcus epidermidis</i>	ATCC 12228	∅
STA20	<i>Staphylococcus epidermidis</i>	Smoked salmon	white colony
STA25	<i>Staphylococcus hyicus</i>	Meat product	white colony
STA26	<i>Staphylococcus intermedius</i>	Collection	∅
E3	<i>Streptococcus bovis</i>	Collection	∅
E13	<i>Streptococcus bovis</i>	CIP 5623	∅
E17	<i>Streptococcus equinus</i>	Collection	∅

APPENDIX E:

INTERLABORATORY STUDY  
DETAILED RESULTS OF  
PARTICIPANT LABORATORIES

**Laboratory A**

Code	Reference method				Result	Comparison / expected results	Alternative method OAA - Short protocol			Comparison / expected results
	Fraser 1/2		Fraser				Presence of characteristic colonies	Confirmation : catalase, haemolysis, API strip	Result	
	OAA	PALCAM	OAA	PALCAM						
1	+	+	+	+	+	=	+	+	+	=
2	+	+	+	+	+	=	+	+	+	=
3	+	+	+	+	+	=	+	+	+	=
4	+	+	+	+	+	=	+	+	+	=
5	+	+	+	+	+	=	+	+	+	=
6	-	-	-	-	-	=	-	-	-	=
7	-	-	-	-	-	=	-	-	-	=
8	-	-	-	-	-	=	-	-	-	=
9	+	+	+	+	+	=	+	+	+	=
10	+	+	+	+	+	=	+	+	+	=
11	+	+	+	+	+	=	+	+	+	=
12	+	+	+	+	+	=	+	+	+	=
13	+	+	+	+	+	=	+	+	+	=
14	-	-	-	-	-	=	-	-	-	=
15	-	-	-	-	-	=	-	-	-	=
16	+	+	+	+	+	=	+	+	+	=
17	+	+	+	+	+	=	+	+	+	=
18	+	+	+	+	+	=	+	+	+	=
19	-	-	-	-	-	=	-	-	-	=
20	-	-	-	-	-	=	-	-	-	=
21	-	-	-	-	-	=	-	-	-	=
22	+	+	+	+	+	=	+	+	+	=
23	+	+	+	+	+	=	+	+	+	=
24	+	+	+	+	+	=	+	+	+	=
Total flora of milk (UFC/ml):		> 30 000								

**Laboratory D**

Code	Reference method				Result	Comparison / expected results	Alternative method OAA - Short protocol			Comparison / expected results
	Fraser 1/2		Fraser				Presence of characteristic colonies	Confirmation : RAPID L Mono	Result	
	OAA	PALCAM	OAA	PALCAM						
1	+	+	+	+	+	=	+	+	+	=
2	-	+	+	+	+	=	+	+	+	=
3	+	+	+	+	+	=	+	+	+	=
4	+	+	+	+	+	=	+	+	+	=
5	+	+	+	+	+	=	+	+	+	=
6	-	-	-	-	-	=	-	-	-	=
7	-	-	-	-	-	=	-	-	-	=
8	-	-	-	-	-	=	-	-	-	=
9	+	+	+	+	+	=	+	+	+	=
10	-	-	+	+	+	=	+	+	+	=
11	-	-	+	+	+	=	+	+	+	=
12	+	+	+	+	+	=	+	+	+	=
13	+	+	+	+	+	=	+	+	+	=
14	-	-	-	-	-	=	-	-	-	=
15	-	-	-	-	-	=	-	-	-	=
16	-	+	+	+	+	=	+	+	+	=
17	-	+	+	+	+	=	+	+	+	=
18	+	+	+	+	+	=	+	+	+	=
19	-	-	-	-	-	=	-	-	-	=
20	-	-	-	-	-	=	-	-	-	=
21	-	-	-	-	-	=	-	-	-	=
22	-	-	+	+	+	=	+	+	+	=
23	-	-	+	+	+	=	+	+	+	=
24	+	+	+	+	+	=	+	+	+	=
Total flora of milk (UFC/ml):		730 000 000								

**Laboratory E**

Code	Reference method				Result	Comparison / expected results	Alternative method OAA - Short protocol			Comparison / expected results
	Fraser 1/2		Fraser				Presence of characteristic colonies	Confirmation : RAPID L Mono	Result	
	OAA	PALCAM	OAA	PALCAM						
1	+	+	+	+	+	=	+	+	+	=
2	+	+	+	+	+	=	+	+	+	=
3	+	+	+	+	+	=	+	+	+	=
4	+	+	+	+	+	=	+	+	+	=
5	+	+	+	+	+	=	+	+	+	=
6	-	-	-	-	-	=	-	-	-	=
7	-	-	-	-	-	=	-	-	-	=
8	-	-	-	-	-	=	-	-	-	=
9	+	+	+	+	+	=	+	+	+	=
10	+	+	+	+	+	=	+	+	+	=
11	+	+	+	+	+	=	+	+	+	=
12	+	+	+	+	+	=	+	+	+	=
13	+	+	+	+	+	=	+	+	+	=
14	-	-	-	-	-	=	-	-	-	=
15	-	-	-	-	-	=	-	-	-	=
16	+	+	+	+	+	=	+	+	+	=
17	+	+	+	+	+	=	+	+	+	=
18	+	+	+	+	+	=	+	+	+	=
19	-	-	-	-	-	=	-	-	-	=
20	-	-	-	-	-	=	-	-	-	=
21	-	-	-	-	-	=	-	-	-	=
22	+	+	+	+	+	=	+	+	+	=
23	+	+	+	+	+	=	+	+	+	=
24	+	+	+	+	+	=	+	+	+	=
Total flora of milk (UFC/ml):		> 30 000								

**Laboratory F**

Code	Reference method					Comparison / expected results	Alternative method OAA - Short protocol			Comparison / expected results
	Fraser 1/2		Fraser		Result		Presence of characteristic colonies	Confirmation : Accuprobe Test	Result	
	OAA	PALCAM	OAA	PALCAM						
1	+	+	+	+	+	=	+	+	=	
2	+	+	+	+	+	=	+	+	=	
3	+	+	+	+	+	=	+	+	=	
4	+	+	+	+	+	=	+	+	=	
5	+	+	+	+	+	=	+	+	=	
6	-	-	-	-	-	=	-	-	=	
7	-	-	-	-	-	=	-	-	=	
8	-	-	-	-	-	=	-	-	=	
9	+	+	+	+	+	=	+	+	=	
10	+	+	+	+	+	=	+	+	=	
11										
12	+	+	+	+	+	=	+	+	=	
13	+	+	+	+	+	=	+	+	=	
14	-	-	-	-	-	=	-	-	=	
15	-	-	-	-	-	=	-	-	=	
16										
17	+	+	+	+	+	=	+	+	=	
18	+	+	+	+	+	=	+	+	=	
19	-	-	-	-	-	=	-	-	=	
20	-	-	-	-	-	=	-	-	=	
21	-	-	-	-	-	=	-	-	=	
22										
23										
24	+	+	+	+	+	=	+	+	=	

Total flora of milk (UFC/ml): > 30 000

**Laboratory G**

Code	Reference method					Comparison / expected results	Alternative method OAA - Short protocol			Comparison / expected results
	Fraser 1/2		Fraser		Result		Presence of characteristic colonies	Confirmation : RAPID'L Mono	Result	
	OAA	PALCAM	OAA	PALCAM						
1	+	+	+	+	+	=	+	+	=	
2	+	+	+	+	+	=	+	+	=	
3	+	+	+	+	+	=	+	+	=	
4	+	+	+	+	+	=	+	+	=	
5	+	+	+	+	+	=	+	+	=	
6	-	-	-	-	-	=	-	-	=	
7	-	-	-	-	-	=	-	-	=	
8	-	-	-	-	-	=	-	-	=	
9	+	+	+	+	+	=	+	+	=	
10	+	+	+	+	+	=	+	+	=	
11	+	+	+	+	+	=	+	+	=	
12	+	+	+	+	+	=	+	+	=	
13	+	+	+	+	+	=	+	+	=	
14	-	-	-	-	-	=	-	-	=	
15	-	-	-	-	-	=	-	-	=	
16	+	+	+	+	+	=	+	+	=	
17	+	+	+	+	+	=	+	+	=	
18	+	+	+	+	+	=	+	+	=	
19	-	-	-	-	-	=	-	-	=	
20	-	-	-	-	-	=	-	-	=	
21	-	-	-	-	-	=	-	-	=	
22	+	+	+	+	+	=	+	+	=	
23	+	+	+	+	+	=	+	+	=	
24	+	+	+	+	+	=	+	+	=	

Total flora of milk (UFC/ml): 16 000

**Laboratory H**

Code	Reference method					Comparison / expected results	Alternative method OAA - Short protocol			Comparison / expected results
	Fraser 1/2		Fraser		Result		Presence of characteristic colonies	Confirmation : RAPID'L Mono + ALOA CONFIRMATION	Result	
	OAA	PALCAM	OAA	PALCAM						
1	+	+	+	+	+	=	+	+	=	
2	+	+	+	+	+	=	+	+	=	
3	+	+	+	+	+	=	+	+	=	
4	+	+	+	+	+	=	+	+	=	
5	+	+	+	+	+	=	+	+	=	
6	-	-	-	-	-	=	-	-	=	
7	-	-	-	-	-	=	-	-	=	
8	-	-	-	-	-	=	-	-	=	
9	+	+	+	+	+	=	+	+	=	
10	+	+	+	+	+	=	+	+	=	
11	+	+	+	+	+	=	+	+	=	
12	+	+	+	+	+	=	+	+	=	
13	+	+	+	+	+	=	+	+	=	
14	-	-	-	-	-	=	-	-	=	
15	-	-	-	-	-	=	-	-	=	
16	+	+	+	+	+	=	+	+	=	
17	+	+	+	+	+	=	+	+	=	
18	+	+	+	+	+	=	+	+	=	
19	-	-	-	-	-	=	-	-	=	
20	-	-	-	-	-	=	-	-	=	
21	-	-	-	-	-	=	-	-	=	
22	+	+	+	+	+	=	+	+	=	
23	+	+	+	+	+	=	+	+	=	
24	+	+	+	+	+	=	+	+	=	

Total flora of milk (UFC/ml): 16 000

**Laboratory I**

Code	Reference method				Result	Comparison / expected results	Alternative method OAA - Short protocol			Comparison / expected results
	Fraser 1/2		Fraser				Presence of characteristic colonies	Confirmation : RAPID'L.Mono + haemolysis	Result	
	OAA	PALCAM	OAA	PALCAM						
1	+	+	+	+	+	=	+	+	+	=
2	+	+	+	+	+	=	+	+	+	=
3	+	+	+	+	+	=	+	+	+	=
4	+	+	+	+	+	=	+	+	+	=
5	+	+	+	+	+	=	+	+	+	=
6	-	-	-	-	-	=	-	-	-	=
7	-	-	-	-	-	=	-	-	-	=
8	-	-	-	-	-	=	-	-	-	=
9	+	+	+	+	+	=	+	+	+	=
10	+	+	+	+	+	=	+	+	+	=
11	+	+	+	+	+	=	+	+	+	=
12	+	+	+	+	+	=	+	+	+	=
13	+	+	+	+	+	=	+	+	+	=
14	-	-	-	-	-	=	-	-	-	=
15	-	-	-	-	-	=	-	-	-	=
16	+	+	+	+	+	=	+	+	+	=
17	+	+	+	+	+	=	+	+	+	=
18	+	+	+	+	+	=	+	+	+	=
19	-	-	-	-	-	=	-	-	-	=
20	-	-	-	-	-	=	-	-	-	=
21	-	-	-	-	-	=	-	-	-	=
22	+	+	+	+	+	=	+	+	+	=
23	+	+	+	+	+	=	+	+	+	=
24	+	+	+	+	+	=	+	+	+	=
Total flora of milk (UFC/ml):						> 300 000				

**Laboratory J**

Code	Reference method				Result	Comparison / expected results	Alternative method OAA - Short protocol			Comparison / expected results
	Fraser 1/2		Fraser				Presence of characteristic colonies	Confirmation : RAPID'L.Mono + haemolysis	Result	
	OAA	PALCAM	OAA	PALCAM						
1	+	+	+	+	+	=	+	+	+	=
2	+	+	+	+	+	=	+	+	+	=
3	+	+	+	+	+	=	+	+	+	=
4	+	+	+	+	+	=	+	+	+	=
5	+	+	+	+	+	=	+	+	+	=
6	-	-	-	-	-	=	-	-	-	=
7	-	-	-	-	-	=	-	-	-	=
8	-	-	-	-	-	=	-	-	-	=
9	+	+	+	+	+	=	+	+	+	=
10	+	+	+	+	+	=	+	+	+	=
11	+	+	+	+	+	=	+	+	+	=
12	+	+	+	+	+	=	+	+	+	=
13	+	+	+	+	+	=	+	+	+	=
14	-	-	-	-	-	=	-	-	-	=
15	-	-	-	-	-	=	-	-	-	=
16	+	+	+	+	+	=	+	+	+	=
17	+	+	+	+	+	=	+	+	+	=
18	+	+	+	+	+	=	+	+	+	=
19	-	-	-	-	-	=	-	-	-	=
20	-	-	-	-	-	=	-	-	-	=
21	-	-	-	-	-	=	-	-	-	=
22	+	+	+	+	+	=	+	+	+	=
23	+	+	+	+	+	=	+	+	+	=
24	+	+	+	+	+	=	+	+	+	=
Total flora of milk (UFC/ml):						480 000				

**Laboratory K**

Code	Reference method				Result	Comparison / expected results	Alternative method OAA - Short protocol			Comparison / expected results
	Fraser 1/2		Fraser				Presence of characteristic colonies	Confirmation : RAPID'L.Mono	Result	
	OAA	PALCAM	OAA	PALCAM						
1	+	+	+	+	+	=	+	+	+	=
2	+	+	+	+	+	=	+	+	+	=
3	+	+	+	+	+	=	+	+	+	=
4	+	+	+	+	+	=	+	+	+	=
5	+	+	+	+	+	=	+	+	+	=
6	-	-	-	-	-	=	-	-	-	=
7	-	-	-	-	-	=	-	-	-	=
8	-	-	-	-	-	=	-	-	-	=
9	+	+	+	+	+	=	+	+	+	=
10	+	+	+	+	+	=	+	+	+	=
11	+	+	+	+	+	=	+	+	+	=
12	+	+	+	+	+	=	+	+	+	=
13	+	+	+	+	+	=	+	+	+	=
14	-	-	-	-	-	=	-	-	-	=
15	-	-	-	-	-	=	-	-	-	=
16	+	+	+	+	+	=	+	+	+	=
17	+	+	+	+	+	=	+	+	+	=
18	+	+	+	+	+	=	+	+	+	=
19	-	-	-	-	-	=	-	-	-	=
20	-	-	-	-	-	=	-	-	-	=
21	-	-	-	-	-	=	-	-	-	=
22	+	+	+	+	+	=	+	+	+	=
23	+	+	+	+	+	=	+	+	+	=
24	+	+	+	+	+	=	+	+	+	=
Total flora of milk (UFC/ml):						> 30 000				

**Laboratory L**

Code	Reference method				Result	Comparison / expected results	Alternative method OAA - Short protocol			Comparison / expected results
	Fraser 1/2		Fraser				Presence of characteristic colonies	Confirmation : RAPID/L Mono	Result	
	OAA	PALCAM	OAA	PALCAM						
1	+	+	+	+	+	=	+	+	+	=
2	+	+	+	+	+	=	+	+	+	=
3	+	+	+	+	+	=	+	+	+	=
4	+	+	+	+	+	=	+	+	+	=
5	+	+	+	+	+	=	+	+	+	=
6	-	-	-	-	-	=	-	-	-	=
7	-	-	-	-	-	=	-	-	-	=
8	-	-	-	-	-	=	-	-	-	=
9	+	+	+	+	+	=	+	+	+	=
10	+	+	+	+	+	=	+	+	+	=
11	+	+	+	+	+	=	+	+	+	=
12	+	+	+	+	+	=	+	+	+	=
13	+	+	+	+	+	=	+	+	+	=
14	-	-	-	-	-	=	-	-	-	=
15	-	-	-	-	-	=	-	-	-	=
16	+	+	+	+	+	=	+	+	+	=
17	+	+	+	+	+	=	+	+	+	=
18	+	+	+	+	+	=	+	+	+	=
19	-	-	-	-	-	=	-	-	-	=
20	-	-	-	-	-	=	-	-	-	=
21	-	-	-	-	-	=	-	-	-	=
22	+	+	+	+	+	=	+	+	+	=
23	+	+	+	+	+	=	+	+	+	=
24	+	+	+	+	+	=	+	+	+	=
Total flora of milk (UFC/ml):		> 30 000								

**Laboratory M**

Code	Reference method				Result	Comparison / expected results	Alternative method OAA - Short protocol			Comparison / expected results
	Fraser 1/2		Fraser				Presence of characteristic colonies	Confirmation : RAPID/L Mono	Result	
	OAA	PALCAM	OAA	PALCAM						
1	+	+	+	+	+	=	+	+	+	=
2	-	+	+	+	+	=	+	+	+	=
3	+	+	+	+	+	=	+	+	+	=
4	+	+	+	+	+	=	+	+	+	=
5	+	+	+	+	+	=	+	+	+	=
6	-	-	-	-	-	=	-	-	-	=
7	-	-	-	-	-	=	-	-	-	=
8	-	-	-	-	-	=	-	-	-	=
9	+	+	+	+	+	=	+	+	+	=
10	+	+	+	+	+	=	+	+	+	=
11	+	+	+	+	+	=	+	+	+	=
12	+	+	+	+	+	=	+	+	+	=
13	+	+	+	+	+	=	+	+	+	=
14	-	-	-	-	-	=	-	-	-	=
15	-	-	-	-	-	=	-	-	-	=
16	+	+	+	+	+	=	+	+	+	=
17	+	+	+	+	+	=	+	+	+	=
18	+	+	+	+	+	=	+	+	+	=
19	-	-	-	-	-	=	-	-	-	=
20	-	-	-	-	-	=	-	-	-	=
21	-	-	-	-	-	=	-	-	-	=
22	+	+	+	+	+	=	+	+	+	=
23	+	+	+	+	+	=	+	+	+	=
24	+	+	+	+	+	=	+	+	+	=
Total flora of milk (UFC/ml):		> 30 000								

**Laboratory N**

Code	Reference method				Result	Comparison / expected results	Alternative method OAA - Short protocol			Comparison / expected results
	Fraser 1/2		Fraser				Presence of characteristic colonies	Confirmation : RAPID/L Mono	Result	
	OAA	PALCAM	OAA	PALCAM						
1	+	+	+	+	+	=	+	+	+	=
2	+	+	+	+	+	=	+	+	+	=
3	+	+	+	+	+	=	+	+	+	=
4	+	+	+	+	+	=	+	+	+	=
5	+	+	+	+	+	=	+	+	+	=
6	-	-	-	-	-	=	-	-	-	=
7	-	-	-	-	-	=	-	-	-	=
8	-	-	-	-	-	=	-	-	-	=
9	+	+	+	+	+	=	+	+	+	=
10	+	+	+	+	+	=	+	+	+	=
11	+	+	+	+	+	=	+	+	+	=
12	+	+	+	+	+	=	+	+	+	=
13	+	+	+	+	+	=	+	+	+	=
14	-	-	-	-	-	=	-	-	-	=
15	-	-	-	-	-	=	-	-	-	=
16	+	+	+	+	+	=	+	+	+	=
17	+	+	+	+	+	=	+	+	+	=
18	+	+	+	+	+	=	+	+	+	=
19	-	-	-	-	-	=	-	-	-	=
20	-	-	-	-	-	=	-	-	-	=
21	-	-	-	-	-	=	-	-	-	=
22	+	+	+	+	+	=	+	+	+	=
23	+	+	+	+	+	=	+	+	+	=
24	+	+	+	+	+	=	+	+	+	=
Total flora of milk (UFC/ml):		> 15 000								

**Laboratory O**

Code	Reference method					Comparison / expected results	Alternative method OAA - Short protocol			Comparison / expected results
	Fraser 1/2		Fraser		Result		Presence of characteristic colonies	Confirmation :	Result	
	OAA	PALCAM	OAA	PALCAM				catalase, GRAM, haemolysis, API strip		
1	+	+	+	+	+	=	+	+	+	=
2	+	+	+	+	+	=	+	+	+	=
3	+	+	+	+	+	=	+	+	+	=
4	+	+	+	+	+	=	+	+	+	=
5	+	+	+	+	+	=	+	+	+	=
6	-	-	-	-	-	=	-	-	-	=
7	-	-	-	-	-	=	-	-	-	=
8	-	-	-	-	-	=	-	-	-	=
9	+	+	+	+	+	=	+	+	+	=
10	+	+	+	+	+	=	+	+	+	=
11	+	+	+	+	+	=	+	+	+	=
12	+	+	+	+	+	=	+	+	+	=
13	+	+	+	+	+	=	+	+	+	=
14	-	-	-	-	-	=	-	-	-	=
15	-	-	-	-	-	=	-	-	-	=
16	+	+	+	+	+	=	+	+	+	=
17	+	+	+	+	+	=	+	+	+	=
18	+	+	+	+	+	=	+	+	+	=
19	-	-	-	-	-	=	-	-	-	=
20	-	-	-	-	-	=	-	-	-	=
21	-	-	-	-	-	=	-	-	-	=
22	+	+	+	+	+	=	+	+	+	=
23	+	+	+	+	+	=	+	+	+	=
24	+	+	+	+	+	=	+	+	+	=
Total flora of milk (UFC/ml):		> 300 000								

**Laboratory P**

Code	Reference method					Comparison / expected results	Alternative method OAA - Short protocol			Comparison / expected results
	Fraser 1/2		Fraser		Result		Presence of characteristic colonies	Confirmation :	Result	
	OAA	PALCAM	OAA	PALCAM				RAPID'L Mono		
1	+	+	+	+	+	=	+	+	+	=
2	+	+	+	+	+	=	+	+	+	=
3	+	+	+	+	+	=	+	+	+	=
4	+	+	+	+	+	=	+	+	+	=
5	+	+	+	+	+	=	+	+	+	=
6	-	-	-	-	-	=	-	-	-	=
7	-	-	-	-	-	=	-	-	-	=
8	-	-	-	-	-	=	-	-	-	=
9	+	+	+	+	+	=	+	+	+	=
10	+	+	+	+	+	=	+	+	+	=
11	+	+	+	+	+	=	+	+	+	=
12	+	+	+	+	+	=	+	+	+	=
13	+	+	+	+	+	=	+	+	+	=
14	-	-	-	-	-	=	-	-	-	=
15	-	-	-	-	-	=	-	-	-	=
16	+	+	+	+	+	=	+	+	+	=
17	+	+	+	+	+	=	+	+	+	=
18	+	+	+	+	+	=	+	+	+	=
19	-	-	-	-	-	=	-	-	-	=
20	-	-	-	-	-	=	-	-	-	=
21	-	-	-	-	-	=	-	-	-	=
22	+	+	+	+	+	=	+	+	+	=
23	+	+	+	+	+	=	+	+	+	=
24	+	+	+	+	+	=	+	+	+	=
Total flora of milk (UFC/ml):		> 300 000								

APPENDIX F:  
INTERLABORATORY STUDY  
-  
ACCORDANCE

## ALTERNATIVE METHOD

### Level L0

Laboratory	Nb of negatives expected	Nb of negatives obtained	Probability of negatives	Probability of negative pairs	Probability of positives	Probability of positive pairs	Probability of identical result pairs
Laboratory A	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory D	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory E	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory G	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory H	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory I	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory J	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory K	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory L	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory M	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory N	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory O	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory P	8	8	1,00	1,00	0,00	0,00	1,00
<b>Mean :</b>							<b>1,00</b>
<b>Accordance :</b>							<b>100%</b>

### Level L1

Laboratory	Nb of positives expected	Nb of positives obtained	Probability of positives	Probability of positive pairs	Probability of negatives	Probability of negative pairs	Probability of identical result pairs
Laboratory A	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory D	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory E	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory G	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory H	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory I	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory J	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory K	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory L	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory M	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory N	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory O	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory P	8	8	1,00	1,00	0,00	0,00	1,00
<b>Mean :</b>							<b>1,00</b>
<b>Accordance :</b>							<b>100%</b>

### Level L2

Laboratory	Nb of positives expected	Nb of positives obtained	Probability of positives	Probability of positive pairs	Probability of negatives	Probability of negative pairs	Probability of identical result pairs
Laboratory A	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory D	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory E	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory G	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory H	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory I	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory J	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory K	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory L	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory M	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory N	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory O	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory P	8	8	1,00	1,00	0,00	0,00	1,00
<b>Mean :</b>							<b>1,00</b>
<b>Accordance :</b>							<b>100%</b>

## REFERENCE METHOD

### Level L0

Laboratory	Nb of negatives expected	Nb of negatives obtained	Probability of negatives	Probability of negative pairs	Probability of positives	Probability of positive pairs	Probability of identical result pairs
Laboratory A	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory D	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory E	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory G	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory H	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory I	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory J	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory K	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory L	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory M	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory N	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory O	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory P	8	8	1,00	1,00	0,00	0,00	1,00
<b>Mean :</b>							<b>1,00</b>
<b>Accordance :</b>							<b>100%</b>

### Level L1

Laboratory	Nb of positives expected	Nb of positives obtained	Probability of positives	Probability of positive pairs	Probability of negatives	Probability of negative pairs	Probability of identical result pairs
Laboratory A	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory D	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory E	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory G	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory H	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory I	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory J	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory K	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory L	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory M	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory N	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory O	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory P	8	8	1,00	1,00	0,00	0,00	1,00
<b>Mean :</b>							<b>1,00</b>
<b>Accordance :</b>							<b>100%</b>

### Level L2

Laboratory	Nb of positives expected	Nb of positives obtained	Probability of positives	Probability of positive pairs	Probability of negatives	Probability of negative pairs	Probability of identical result pairs
Laboratory A	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory D	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory E	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory G	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory H	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory I	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory J	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory K	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory L	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory M	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory N	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory O	8	8	1,00	1,00	0,00	0,00	1,00
Laboratory P	8	8	1,00	1,00	0,00	0,00	1,00
<b>Mean :</b>							<b>1,00</b>
<b>Accordance :</b>							<b>100%</b>

APPENDIX G:  
INTERLABORATORY STUDY  
-  
CONCORDANCE

## ALTERNATIVE METHOD

### Level L0

Laboratory	Nb of negatives expected	Nb of negatives obtained	Inter-laboratory pairs with the same result	Total number of inter-laboratory pairs
Laboratory A	8	8	768	768
Laboratory D	8	8	768	768
Laboratory E	8	8	768	768
Laboratory G	8	8	768	768
Laboratory H	8	8	768	768
Laboratory I	8	8	768	768
Laboratory J	8	8	768	768
Laboratory K	8	8	768	768
Laboratory L	8	8	768	768
Laboratory M	8	8	768	768
Laboratory N	8	8	768	768
Laboratory O	8	8	768	768
Laboratory P	8	8	768	768
<b>Total</b>			<b>9984</b>	<b>9984</b>
<b>Concordance</b>	100,00%			

### Level L1

Laboratory	Nb of positives expected	Nb of positives obtained	Inter-laboratory pairs with the same result	Total number of inter-laboratory pairs
Laboratory A	8	8	768	768
Laboratory D	8	8	768	768
Laboratory E	8	8	768	768
Laboratory G	8	8	768	768
Laboratory H	8	8	768	768
Laboratory I	8	8	768	768
Laboratory J	8	8	768	768
Laboratory K	8	8	768	768
Laboratory L	8	8	768	768
Laboratory M	8	8	768	768
Laboratory N	8	8	768	768
Laboratory O	8	8	768	768
Laboratory P	8	8	768	768
<b>Total</b>			<b>9984</b>	<b>9984</b>
<b>Concordance</b>	100%			

### Level L2

Laboratory	Nb of positives expected	Nb of positives obtained	Inter-laboratory pairs with the same result	Total number of inter-laboratory pairs
Laboratory A	8	8	768	768
Laboratory D	8	8	768	768
Laboratory E	8	8	768	768
Laboratory G	8	8	768	768
Laboratory H	8	8	768	768
Laboratory I	8	8	768	768
Laboratory J	8	8	768	768
Laboratory K	8	8	768	768
Laboratory L	8	8	768	768
Laboratory M	8	8	768	768
Laboratory N	8	8	768	768
Laboratory O	8	8	768	768
Laboratory P	8	8	768	768
<b>Total</b>			<b>9984</b>	<b>9984</b>
<b>Concordance</b>	100,00%			

## REFERENCE METHOD

### Level L0

Laboratory	Nb of negatives expected	Nb of negatives obtained	Inter-laboratory pairs with the same result	Total number of inter-laboratory pairs
Laboratory A	8	8	768	768
Laboratory D	8	8	768	768
Laboratory E	8	8	768	768
Laboratory G	8	8	768	768
Laboratory H	8	8	768	768
Laboratory I	8	8	768	768
Laboratory J	8	8	768	768
Laboratory K	8	8	768	768
Laboratory L	8	8	768	768
Laboratory M	8	8	768	768
Laboratory N	8	8	768	768
Laboratory O	8	8	768	768
Laboratory P	8	8	768	768
<b>Total</b>			<b>9984</b>	<b>9984</b>
<b>Concordance</b>	100,00%			

### Level L1

Laboratory	Nb of positives expected	Nb of positives obtained	Inter-laboratory pairs with the same result	Total number of inter-laboratory pairs
Laboratory A	8	8	768	768
Laboratory D	8	8	768	768
Laboratory E	8	8	768	768
Laboratory G	8	8	768	768
Laboratory H	8	8	768	768
Laboratory I	8	8	768	768
Laboratory J	8	8	768	768
Laboratory K	8	8	768	768
Laboratory L	8	8	768	768
Laboratory M	8	8	768	768
Laboratory N	8	8	768	768
Laboratory O	8	8	768	768
Laboratory P	8	8	768	768
<b>Total</b>			<b>9984</b>	<b>9984</b>
<b>Concordance</b>	100%			

### Level L2

Laboratory	Nb of positives expected	Nb of positives obtained	Inter-laboratory pairs with the same result	Total number of inter-laboratory pairs
Laboratory A	8	8	768	768
Laboratory D	8	8	768	768
Laboratory E	8	8	768	768
Laboratory G	8	8	768	768
Laboratory H	8	8	768	768
Laboratory I	8	8	768	768
Laboratory J	8	8	768	768
Laboratory K	8	8	768	768
Laboratory L	8	8	768	768
Laboratory M	8	8	768	768
Laboratory N	8	8	768	768
Laboratory O	8	8	768	768
Laboratory P	8	8	768	768
<b>Total</b>			<b>9984</b>	<b>9984</b>
<b>Concordance</b>	100,00%			