

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

Summary report  
according to the standard EN ISO 16140-2/A1 (2024)

Qualitative method

**VIDAS *Listeria monocytogenes* Xpress**  
**VIDAS LMX - Ref. 30123 - certificate # BIO 12/27-02/10**  
**for the detection of *Listeria monocytogenes* in human food**  
**products and in environmental samples**

Expert laboratory: Laboratoire MICROSEPT  
ZA de la Sablonnière  
15 rue Denis Papin  
49220 LE LION D'ANGERS  
FRANCE

For: bioMérieux  
Chemin de l'Orme  
69280 MARCY L'ETOILE  
FRANCE

This report contains 92 pages, including 60 pages of appendices.  
The reproduction of this document is only authorized in its entirety.

Version 0

December 18, 2025

## Preamble

- Protocols of validation:

- EN ISO 16140-1 and EN ISO 16140-2/A1 (2024): Microbiology of the food chain — Method validation  
Part 1: Vocabulary.  
Part 2: Protocol for the validation of alternative (proprietary) methods against a reference method.
- AFNOR requirements regarding comparison and interlaboratory studies for implementation of the standard EN ISO 16140-2 (Version 12).

- Reference method:

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

- Application scope:

- **All human food products** by a validation testing of a broad range of foods, including:
  - meat products,
  - dairy products,
  - seafood products,
  - vegetal products,
  - composite foods,
- **Environmental samples.**

- Certification body:

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

## Table of contents

1. Introduction .....	6
2. Protocols of the methods .....	7
2.1. Alternative method .....	7
2.1.1. Principle of the alternative method .....	7
2.1.2. Protocol of the alternative method .....	8
2.1.3. Restriction .....	9
2.2. Reference method .....	9
2.3. Study design .....	9
2.4. Application scope .....	9
3. Method comparison study .....	10
3.1. Sensitivity study .....	10
3.1.1. Protocols used for the study .....	10
3.1.2. Number and nature of the samples .....	10
3.1.3. Artificial contaminations of the samples .....	12
3.1.4. Results .....	12
3.1.5. Statistical interpretation .....	13
3.1.6. Analysis of discordant results .....	15
3.1.7. Study of the storage of the broths .....	19
3.2. Relative level of detection study .....	21
3.2.1. Matrices .....	21
3.2.2. Protocol of contamination .....	22
3.2.3. Results and calculation of the RLoDs .....	23
3.2.4. Interpretation and conclusion .....	24
3.3. Inclusivity and exclusivity study .....	24
3.3.1. Test protocols .....	24
3.3.2. Results .....	24
3.3.3. Conclusion .....	24
3.4. Practicability .....	25
4. Interlaboratory study .....	26
4.1. Organization of the interlaboratory study .....	26
4.1.1. Participating laboratories .....	26
4.1.2. Experimental parameters .....	26

4.1.3.	Control of the experimental parameters.....	26
4.1.3.1.	Samples preparation and spiking.....	26
4.1.3.2.	Temperature and state of the samples .....	26
4.2.	Results.....	27
4.2.1.	Total viable counts.....	27
4.2.2.	Expert Laboratory results.....	27
4.2.3.	Collaborators results.....	28
4.2.4.	Analysis of the results and collaborators selected for the statistical analysis .....	28
4.2.5.	Interpretation of the results and statistical analysis .....	29
4.2.5.1.	Interpretation of the results .....	29
4.2.5.2.	Specificity of the methods .....	29
4.2.5.3.	Sensitivity of the two methods, relative trueness and false positive ratio of the alternative method .....	29
4.2.5.4.	Determination of the acceptability limit and conclusion .....	30
4.2.5.5.	Determination of the relative level of detection.....	31
5.	General conclusion .....	32

Appendix 1: Protocols of the reference and of the alternative methods

Appendix 2: Artificial contaminations

Appendix 3: Sensitivity raw results

Appendix 4: RLOD raw results

Appendix 5: Inclusivity and exclusivity raw results

Appendix 6: Interlaboratory study raw results

## Definitions

- **Method comparison study**

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

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

- **Sensitivity study**

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

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

- **Relative level of detection study**

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

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

The relative level of detection level of detection at P = 0,50 (LOD<sub>50</sub>) of the alternative method divided by the level of detection at P = 0,50 (LOD<sub>50</sub>) of the reference method.

- **Inclusivity and exclusivity study**

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

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

- **Interlaboratory study**

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

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

## 1. Introduction

The method VIDAS *LMX* for the detection of *Listeria monocytogenes* is validated under the attestation number BIO 12/27-02/10. The validation history of the method is the following:

Study	Date	Standards	Expert Laboratory	Observation
Initial validation	Dec. 2009	ISO 16140/A1:2011 ISO 11290-1/A1	IPL Santé, Environnement durables Nord	Validation for all foods (except raw milk cheeses) and environmental samples
Extension	Feb. 2010	ISO 16140/A1:2011 ISO 11290-1/A1	Institut Scientifique d'Hygiène et d'Analyse	Extension for raw milk cheeses
First renewal	Nov. 2013	ISO 16140/A1:2011 ISO 11290-1/A1	Institut Scientifique d'Hygiène et d'Analyse	No additional tests
Extension	Sept. 2016	NA	NA	Extension for the use of software 4.8
Second renewal	Jan. 2017	ISO 16140-2 ISO 11290-1 (2017) AFNOR requirements rev. 6	Institut Scientifique d'Hygiène et d'Analyse	Additional tests to fulfill the requirements of the revised standards
Extension	2018	NA	NA	Extension for the use of software 4.10
Extension	Jul. 2019	NA	Assays performed by bioMerieux	Modification of the conjugate
Third renewal	December 2021	ISO 16140-2:2016 ISO 11290-1 (2017) AFNOR requirements rev. 7	Laboratory MICROSEPT	No additional tests
Fourth renewal	December 2025	ISO 16140-2/A1 (2024) ISO 11290-1 (2017)	Laboratory MICROSEPT	No additional tests

This document is a summary report concerning the VIDAS *LMX* method for the detection of *Listeria monocytogenes* without any supplementary tests. A reinterpretation of the data is nevertheless carried out in order to meet the requirements of amendment A1 of 2024 of the EN ISO 16140-2 standard.

## 2. Protocols of the methods

### 2.1. Alternative method

#### 2.1.1. Principle of the alternative method

The VIDAS *L. monocytogenes* Xpress (LMX) assay is an enzyme immunoassay intended for use on the automated VIDAS instrument (see Operator's Manual) to detect *Listeria monocytogenes* antigens using the ELFA method (Enzyme Linked Fluorescent Assay).

Each test is composed of two parts:

- the Solid Phase Receptacle (SPR), which serves as the solid phase as well as the pipetting device. The interior of the SPR is coated with anti-*L. monocytogenes* antibodies adsorbed on its surface.
- The strip, which contains all the ready-to-use reagents needed for the assay: washing buffer, anti-*Listeria monocytogenes* antibodies conjugated with biotin and substrate.

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

- Part of the enrichment broth is dispensed into the reagent strip. The antigens present bind to the anti-*L. monocytogenes* antibodies coated on the inside wall of the SPR.
- Unbound sample components are washed away.
- Antibodies conjugated with alkaline phosphatase are then cycled in and out of the SPR® and will bind to any *Listeria monocytogenes* antigens which are themselves bound to the antibodies on the SPR® wall.
- Further wash steps remove unbound conjugate.
- During the final detection step, the substrate (4-Methylumbelliferyl phosphate) is cycled in and out of the SPR. The conjugated enzyme catalyzes the hydrolysis of this substrate into a fluorescent product (4-Methylumbelliferyl phosphate) the fluorescence of which is measured at 450 nm.

When the assay is completed, the results are analyzed automatically by the instrument, and a test value is generated for each sample. This value is then compared to an internal reference and each result is interpreted (positive or negative):

Test value (TV) = sample RFV/standard RFV.

If TV < 0.05, Negative test

and

If TV ≥ 0.05, Positive test

### 2.1.2. Protocol of the alternative method

The general protocol for all human food products (meat products, dairy products [except raw milk cheeses], vegetables, seafood products, composite foods and environment samples consists in:

- enrichment of a 25 g sample in 225 ml LMX broth (1:10 dilution), supplemented with 500 µl of a selective mix, and incubated for 26-30 h at 37°C ± 1°C,
- followed by a VIDAS LMX test, tested from a 250 µl portion, after heating for 5 minutes at 95-100°C.

The specific protocol for raw milk cheeses consists in:

- enrichment of a 25 g sample portion in 225 ml LMX broth, supplemented with 500 µl of a selective mix,
- mix with a peristaltic blender,
- add 225 ml of LMX broth not supplemented,
- incubation for 20 -24 h at 37°C ± 1°C,
- followed by inoculation of 3 ml of LMX broth in 6 ml of LX broth, and incubated for 6-8 h at 37°C ± 1°C,
- followed by a VIDAS LMX test, tested from a 250 µl portion, after heating for 5 minutes at 95-100°C.

Notes:

- Each flask containing 225 ml of supplemented LMX broth must be pre-heated to 37°C ± 1°C (the flasks may be placed in an incubator the day before the tests).
- The freeze-dried selective factors must be reconstituted with 6 ml of distilled water and may be kept for up to 7 days at 2-8°C.
- It is important to shake the freeze-dried selective factors in the flask well before sampling.
- Protocol reference: 14226 C

Positive VIDAS LMX test results must be confirmed following one of the procedures below:

- Isolate the non-heated enrichment broth on an Ottaviani Agosti-type chromogenic agar, or a chromogenic agar that is part of a method certified NF VALIDATION.

Follow one of the 3 validated procedures below:

- The presence of typical *Listeria monocytogenes* colonies after isolation of the enrichment broth is sufficient to confirm the positive result.
- Identify between one and five typical colonies, using the tests described in the methods standardized by the CEN or ISO standard (including the purification step).
- On a Ottaviani and Agosti-type chromogenic agar, the confirmation of typical *Listeria monocytogenes* colonies using an API® strip can be performed without prior purification if the colony is sufficiently isolated.

Note: In the absence of characteristic colonies on a chromogenic plate with a positive VIDAS LMX test, another way of confirmation can be followed:

- General protocol : transfer 0.1 ml of unheated LMX broth to 6 ml of LX broth and incubate for 22-26h at 37°C, and then isolate on a chromogenic plate.
- Specific protocol :in addition to the previous transfer protocol, it is also possible to extend incubation time of the LMX broth to 24 hours before streaking on an chromogenic plate.

Assays were also conducted on samples tested during the accuracy test to evaluate the possibility to store the LMX broth for 72 hours at 2-8°C after incubation to verify that these storage conditions do not modify the result.

The diagram summarizing the method is shown in appendix 1.

### 2.1.3. Restriction

There is no restriction.

## 2.2. Reference method

Assays of the previous validations were performed according to the standard EN ISO 11290-1 / A1 (2005) "Horizontal method for the detection and enumeration of *Listeria monocytogenes* - Part 1: detection method." Following the revision of this standard, the modifications have no impact on the results obtained previously as well as on the performance of the alternative method.

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

The analytical scheme is presented in appendix 1.

### 2.3. Study design

It is a unpaired study as the reference and the alternative methods used two different enrichment broths for the first step in the enrichment procedure, Fraser ½ broth and LMX broth, respectively.

## 2.4. Application scope

The scope of the method concerns a broad range of foods and environmental samples. In this document, categories are classified as below:

- ① Meat products,
- ② Dairy products,
- ③ Seafood products,
- ④ Vegetal products
- ⑤ Composite foods,
- ⑥ Environmental samples.

### 3. Method comparison study

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

#### 3.1. Sensitivity study

##### 3.1.1. Protocols used for the study

The samples were analyzed by the reference and by the alternative method. For the alternative method, the minimum incubation time of the broth was applied.

All positive and discordant samples were confirmed using the following protocol:

- a) Using the tests described in the ISO 11290-1 method, after isolation of LMX broth on *Listeria monocytogenes* selective agar (Ottaviani and Agosti Listeria agar),
- b) Isolation of LMX broth on *Listeria monocytogenes* chromogenic agar (chromID Ottaviani Agosti etc.). The typical appearance of *Listeria monocytogenes* on chromogenic plates is sufficient to validate a positive VIDAS LMX test.
- c) using an API *Listeria* gallery performed from a colony picked directly from the selective agar

Typical colonies on the O&A media were confirmed after purification by the tests described in the reference methods (biochemical confirmation and serology).

A storage of the enrichment broths for up to 72 hours at  $5\pm 3^{\circ}\text{C}$  before performing the VIDAS LMX test and the confirmation steps was also tested.

##### 3.1.2. Number and nature of the samples

Three hundred and sixty one (361) samples from the initial validation study and the extension of 2010 were kept for the statistical analysis.

One hundred and thirty four (134) samples of the renewal study in 2017 were added-for the statistical analysis.

A total of 495 samples were thus analyzed.

The distribution of the samples is presented in table 1.

Table 1 : number and nature of the samples analyzed (PV: previous validation studies, I 17: ISHA 2017)

Category	Type	Year	Positive results	Negative results	Total
<b>1 Meat products</b>	m1 Raw products	PV	9	11	20
		I 17	0	0	
	m2 Ready-to-eat and processed meat products	PV	3	7	20
		I 17	7	3	
	m3 Cured products	PV	13	7	23
I 17		0	3		
<b>Total</b>			<b>32</b>	<b>31</b>	<b>63</b>
<b>2 Dairy products</b>	d1 Raw and pasteurised milk and cheese with pasteurised milk	PV	12	6	22
		I 17	0	4	
	d2 Goat and ewes pasteurised milk cheese	PV	9	13	23
		I 17	1	0	
	d3 Raw milk cheese	PV	26	28	60
I 17		4	2		
<b>Total</b>			<b>52</b>	<b>53</b>	<b>105</b>
<b>3 Seafood products</b>	s1 Fresh fish fillets and shellfishs	PV	13	3	23
		I 17	0	7	
	s2 Smoked fish	PV	8	20	30
		I 17	2	0	
	s3 Processed products	PV	5	7	20
I 17		5	3		
<b>Total</b>			<b>33</b>	<b>40</b>	<b>73</b>
<b>4 Vegetal products</b>	v1 Raw vegetal products	PV	6	12	22
		I 17	4	0	
	v2 Ready-to-eat, ready-to-cook raw vegetal products,...	PV	11	13	24
		I 17	0	0	
	v3 Processed vegetal products	PV	7	11	21
I 17		3	0		
<b>Total</b>			<b>31</b>	<b>36</b>	<b>67</b>
<b>5 Composite foods</b>	c1 Ready-to-eat foods	PV	2	6	38
		I 17	18	12	
	c2 Ready-to-reheat foods	PV	12	9	43
		I 17	15	7	
	c3 Pastries, egg products,...	PV	7	11	45
I 17		14	13		
<b>Total</b>			<b>68</b>	<b>58</b>	<b>126</b>
<b>6 Environ-mental samples</b>	e1 Process water	PV	6	10	20
		I 17	4	0	
	e2 Surface samples	PV	8	9	20
		I 17	2	1	
	e3 Residu	PV	10	11	21
I 17		0	0		
<b>Total</b>			<b>30</b>	<b>31</b>	<b>61</b>
<b>Total (all categories)</b>			<b>246</b>	<b>249</b>	<b>495</b>

### 3.1.3. Artificial contaminations of the samples

246 positives samples were analysed including 110 naturally contaminated samples.

For spiking, several strains were stressed using different treatments and the stress intensity was evaluated (logarithmic difference between enumeration on non selective agar and selective agar, cf. appendix 2).

For seedings, bacterial suspensions were calibrated and inoculated in the matrices. The samples so contaminated were stored at 2 – 8° for 48 to 72 hours (cf. appendix 2).

The proportion of naturally and artificially contaminated samples giving positive results is presented in table 2.

*Table 2 : proportion of naturally and artificially contaminated samples giving positive results with the protocol of confirmation giving the more positive results*

Category	Number and percentage of samples analyzed per contamination levels(CFU/25g)				
	Naturally contaminated	≤ 5 (spiking) ≤ 3 (seeding)	5-10 (spiking) 3-10 (seeding)	>10	Total
① Meat products	25	7	0	0	32
② Dairy products	9	12	28	3 ( 1 type 1, 1 type 2, 1 type 3)	52
③ Seafood products	26	7	0	0	33
④ Vegetal products	11	8	9	3 ( 1 type 1, 1 type 2, 1 type 3)	31
⑤ Composite foods	22	44	2	0	68
⑥ Environ. sample	17	9	1	3 ( 1 type 1, 1 type 2, 1 type 3)	30
<b>Total</b>	<b>110</b>	<b>87</b>	<b>40</b>	<b>9</b>	<b>246</b>
<b>%</b>	<b>44.7%</b>	<b>35.4%</b>	<b>16.3%</b>	<b>3.6%</b>	<b>100,0%</b>

### 3.1.4. Results

Raw results are presented in appendix 3 by step of validation.

The following tables present the summary of the results by incubation times and protocols of confirmation.

Table 3 : results of the sensitivity study (PA: positive agreement, TNA:total negative agreement, TND: total negative deviation, PD: positive deviation)

Category	Type	PA	TNA	TND	PD	N
① Meat products	m1	6	11	0	3	20
	m2	9	10	1	0	20
	m3	11	10	2	0	23
	<b>Total</b>	<b>26</b>	<b>31</b>	<b>3</b>	<b>3</b>	<b>63</b>
② Dairy products	d1	10	10	2	0	22
	d2	10	13	0	0	23
	d3	23	30	3	4	60
	<b>Total</b>	<b>43</b>	<b>53</b>	<b>5</b>	<b>4</b>	<b>105</b>
③ Seafood products	s1	12	10	1	0	23
	s2	9	20	1	0	30
	s3	10	10	0	0	20
	<b>Total</b>	<b>31</b>	<b>40</b>	<b>2</b>	<b>0</b>	<b>73</b>
④ Vegetal products	v1	8	12	0	2	22
	v2	7	13	0	4	24
	v3	8	11	1	1	21
	<b>Total</b>	<b>23</b>	<b>36</b>	<b>1</b>	<b>7</b>	<b>67</b>
⑤ Composite foods	c1	17	18	0	3	38
	c2	20	16	4	3	43
	c3	20	24	0	1	45
	<b>Total</b>	<b>57</b>	<b>58</b>	<b>4</b>	<b>7</b>	<b>126</b>
⑥ Environmental samples	e1	9	10	1	0	20
	e2	8	10	0	2	20
	e3	8	11	2	0	21
	<b>Total</b>	<b>25</b>	<b>31</b>	<b>3</b>	<b>2</b>	<b>61</b>
Protocol Raw milk cheese (dairy type d3)	<b>Total</b>	<b>23</b>	<b>30</b>	<b>3</b>	<b>4</b>	<b>60</b>
<b>All categories</b>	<b>Total</b>	<b>205</b>	<b>249</b>	<b>18</b>	<b>23</b>	<b>495</b>

### 3.1.5. Statistical interpretation

These results were used to calculate the sensitivity for the alternative method and the reference method and the relative sensitivity (cf. tables 4).

Table 4 : values in % of sensitivity for the two methods, relative trueness and false positive ratio for the alternative method (PA: positive agreement, NA: negative agreement, ND: negative deviation, PD: positive deviation, PP: presumptive positive before confirmation, SE<sub>alt</sub>: sensitivity for the alternative method, SE<sub>ref</sub>: sensitivity for the reference method, RT: relative trueness, FPR: false positive ratio for the alternative method, FNR: false negative ratio for the alternative method)

Category	Type	PA	PA <sub>FP(alt)</sub>	NA	NA <sub>FN(alt)</sub>	PD	ND	ND <sub>FN(alt)</sub>	PD <sub>FP(alt)</sub>	TND	TNA	SE <sub>alt</sub> %	SE <sub>ref</sub> %	RT %	FPR %	FNR
Meat products	a Raw products	6	0	11	0	3	0	0	0	0	11	100,0	66,7	85,0	0,0	0,00
	b Ready-to-eat and processed meat products	9	0	10	0	0	1	0	0	1	10	90,0	100,0	95,0	0,0	0,00
	c Cured products	11	0	10	0	0	2	2	0	4	10	73,3	100,0	84,0	0,0	0,13
	<b>Total</b>	<b>26</b>	<b>0</b>	<b>31</b>	<b>0</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>0</b>	<b>5</b>	<b>31</b>	<b>85,3</b>	<b>91,2</b>	<b>87,7</b>	<b>0,0</b>	<b>0,06</b>
Dairy products	a Raw and pasteurised milk and cheese with pasteurised milk	10	0	10	0	0	2	1	0	3	10	76,9	100,0	87,0	0,0	0,08
	b Goat and ewes pasteurised milk cheese	10	0	13	0	0	0	0	0	0	13	100,0	100,0	100,0	0,0	0,00
	c Raw milk cheese	23	0	30	0	4	3	2	0	5	30	84,4	87,5	85,5	0,0	0,06
	<b>Total</b>	<b>43</b>	<b>0</b>	<b>53</b>	<b>0</b>	<b>4</b>	<b>5</b>	<b>3</b>	<b>0</b>	<b>8</b>	<b>53</b>	<b>85,5</b>	<b>92,7</b>	<b>88,9</b>	<b>0,0</b>	<b>0,05</b>
Seafood products	a Fresh fish fillets and shellfishes	12	0	10	0	0	1	0	0	1	10	92,3	100,0	95,7	0,0	0,00
	b Smoked fish	9	0	20	0	0	1	0	0	1	20	90,0	100,0	96,7	0,0	0,00
	c Processed products	10	0	10	0	0	0	0	0	0	10	100,0	100,0	100,0	0,0	0,00
	<b>Total</b>	<b>31</b>	<b>0</b>	<b>40</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>40</b>	<b>93,9</b>	<b>100,0</b>	<b>97,3</b>	<b>0,0</b>	<b>0,00</b>
Vegetal products	a Raw vegetal products	8	0	12	0	2	0	0	0	0	12	100,0	80,0	90,9	0,0	0,00
	b Ready-to-eat, ready-to-cook raw vegetal products,...	7	0	13	0	4	0	0	0	0	13	100,0	63,6	83,3	0,0	0,00
	c Processed vegetal products	8	0	11	0	1	1	0	0	1	11	90,0	90,0	90,5	0,0	0,00
	<b>Total</b>	<b>23</b>	<b>0</b>	<b>36</b>	<b>0</b>	<b>7</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>36</b>	<b>96,8</b>	<b>77,4</b>	<b>88,1</b>	<b>0,0</b>	<b>0,00</b>
Composite food	a Ready-to-eat foods	17	0	18	0	3	0	0	0	0	18	100,0	85,0	92,1	0,0	0,00
	b Ready-to-reheat foods	20	0	16	0	3	4	0	0	4	16	85,2	88,9	83,7	0,0	0,00
	c Pastries, egg products,...	20	0	24	0	1	0	1	0	1	24	95,5	95,5	95,7	0,0	0,05
	<b>Total</b>	<b>57</b>	<b>0</b>	<b>58</b>	<b>0</b>	<b>7</b>	<b>4</b>	<b>1</b>	<b>0</b>	<b>5</b>	<b>58</b>	<b>92,8</b>	<b>89,9</b>	<b>90,6</b>	<b>0,0</b>	<b>0,01</b>
Environmental samples	a Process water	9	0	10	0	0	1	0	0	1	10	90,0	100,0	95,0	0,0	0,00
	b Surface samples	8	0	10	0	2	0	0	0	0	10	100,0	80,0	90,0	0,0	0,00
	c Residu	8	0	11	0	0	2	0	0	2	11	80,0	100,0	90,5	0,0	0,00
	<b>Total</b>	<b>25</b>	<b>0</b>	<b>31</b>	<b>0</b>	<b>2</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>31</b>	<b>90,0</b>	<b>93,3</b>	<b>91,8</b>	<b>0,0</b>	<b>0,00</b>
<b>Protocol raw milk cheese (type c)</b>		<b>23</b>	<b>0</b>	<b>30</b>	<b>0</b>	<b>4</b>	<b>5</b>	<b>3</b>	<b>0</b>	<b>8</b>	<b>54</b>	<b>77,1</b>	<b>88,6</b>	<b>81,5</b>	<b>0,0</b>	<b>0,09</b>
<b>All categories</b>		<b>205</b>	<b>0</b>	<b>249</b>	<b>0</b>	<b>23</b>	<b>18</b>	<b>6</b>	<b>0</b>	<b>24</b>	<b>249</b>	<b>90,5</b>	<b>90,9</b>	<b>90,6</b>	<b>0,0</b>	<b>0,02</b>

Table 5 presents the summary of the results for all categories and all protocols:

*Table 5 : summary of the sensitivity study results for all the categories of the application scope*

Parameter	ISO 16140-2 formulas	Results for all the categories	Results for the Protocol "Raw milk cheese"
<b>Sensitivity of the alternative method</b>	$SE_{alt} = \frac{(PA + PD)}{(PA + TND + PD)} \times 100 \%$	90.5%	77.1%
<b>Sensitivity of the reference method</b>	$SE_{ref} = \frac{(PA + TND)}{(PA + TND + PD)} \times 100 \%$	90.9%	88.6%
<b>Relative trueness</b>	$RT = \frac{(PA + TNA)}{N} \times 100 \%$	90.6%	81.8%
<b>False positive ratio</b>	$FPR = \frac{PA_{FP(alt)} + PD_{FP(alt)}}{TNA} \times 100 \%$	0%	0%
<b>False negative ratio</b>	$FNR = \frac{NA_{FN(alt)} + ND_{FN(alt)}}{PA + TND + PD}$	0.02	0.09

### 3.1.6. Analysis of discordant results

Discordant results are examined according to the standard ISO 16140-2/A1 (2024).

Table 6 presents the summary of the discordant results for all categories.

Table 6 : summary of discordant results for all the categories (PV: Previous Validation, I 17: ISHA 2017 TC: type of contamination (sp: spiking, se: seeding, LC: level of contamination)

Category	Study	Type	N° Sample	Sample	Code	Strain	TC	LC (CFU/ 25g)	Reference method: final result	Alternative method			Discordance
										Vidas test	Confirmation	Final results	
<b>Meat products</b> ①	PV	m1+	B1	Ground beef	/	/	/	/	-	+	<i>L.mono</i>	+	PD
	PV	m1+	B3	Ground beef	/	/	/	/	-	+	<i>L.mono</i>	+	PD
	PV	m1+	J4	Turkey escalope	/	/	/	/	-	+	<i>L.mono</i>	+	PD
	PV	m2+	C16	Frozen beef balls	/	/	/	/	+ <i>L.mono</i> <i>L.innocua</i>	-	<i>L.innocua</i>	-	ND
	PV	m3+	C8	Dry sausage	/	/	/	/	+ <i>L.mono</i>	-	<i>L.mono</i>	-	ND
	PV	m3+	D16	Dry sausage	/	/	/	/	+ <i>L.mono</i>	-	<i>L.mono</i>	-	ND
<b>Dairy products</b> ②	PV	d1+	N1	Cow cheese (Rollot of picardie)	L7	<i>L. mono</i>	sp	3,4	+ <i>L.mono</i>	-	<i>L.mono</i>	-	ND
	PV	d1+	Q15	Raw milk	L62	<i>L. mono</i>	sp	6,0	+ <i>L.mono</i>	-	no colony on plate	-	ND
	PV	d3+	V2	Cow Organic Cheese (St Félicien)	/	/	/	/	+ <i>L.mono</i>	-	<i>L.mono</i>	-	ND
	PV	d3+	U8	Cow cheese	L32	<i>L. mono 4b</i>	sp	1,2	-	+	<i>L.mono</i>	+	PD
	PV	d3+	R4	Cow cheese (Mont dor)	/	<i>L. mono</i>	/	0,1	+ <i>L.mono</i>	-	no colony on plate	-	ND
	PV	d3+	Y2	Cow cheese (Saint Nectaire)	L11	<i>L. mono 1/2a</i>	sp	3,2	-	+	<i>L.mono</i>	+	PD
	PV	d3+	W7	Cow cheese (Reblochon)	L40	<i>L. mono 1/2a</i>	sp	3,5	+ <i>L.mono</i>	-	<i>L.mono</i>	-	ND
	PV	d3+	T12	Cow cheese (Camembert)	/	<i>L. mono</i>	/	5,0	-	+	<i>L.mono</i>	+	PD
	PV	d3+	W5	Cow cheese	L40	<i>L. mono 1/2a</i>	sp	6,6	-	+	<i>L.mono</i>	+	PD
<b>Seafood products</b> ③	PV	s1+	A7	Fish trio	/	/	/	/	+ <i>L.mono</i>	-	no colony on plate	-	ND
	PV	s2+	J7	Smoked eels	/	/	/	/	+ <i>L.mono</i>	-	no colony on plate	-	ND
<b>Vegetal products</b> ④	PV	v1+	M5	Raw cutted carrots	/	/	/	/	-	+	<i>L.mono</i>	+	PD
	PV	v1+	J15	Mix 3 peppers under vacuum	L31	<i>L. mono</i>	sp	4,3	-	+	<i>L.mono</i>	+	PD
	PV	v2+	D1	Frozen fries	/	/	/	/	- <i>L.grayi</i>	+	<i>L.mono</i>	+	PD
	PV	v2+	I9	Frozen fries	/	/	/	/	-	+	<i>L.mono</i>	+	PD
	PV	v2+	K5	Traditional Frozen fries	/	/	/	/	-	+	<i>L.mono</i>	+	PD
	PV	v2+	O15	Frozen fries	/	/	/	/	-	+	<i>L.mono</i>	+	PD
	PV	v3+	A6	Saffron rice and vegetables	/	/	/	/	+ <i>L.mono</i>	-	no colony on plate	-	ND
	PV	v3+	J21	Cucumber vinaigrette	L47	<i>L. mono</i>	sp	17	-	+	<i>L.mono</i>	+	PD

Category	Study	Type	N° Sample	Sample	Code	Strain	TC	LC (CFU/25g)	Reference method: final result	Alternative method			Discordance
										Vidas test	Confirmation	Final results	
Composite foods 5	PV	c1+	F7	Smoked salmon, soft cheese, dill	/	/	/	/	-	+	<i>L.mono</i>	+	PD
	I 17	c1+	VC1	Salad with pasta, tuna and vegetables	L.4.26	<i>L.mono</i> 1/2a	Se : 72h at 5°C	1.0	-	+	<i>L.mono</i>	+	PD
	I 17	c1+	VC27	Sandwich with meat, tomato	L.4.23	<i>L.mono</i> 1/2a	Se : 72h at 5°C	2.6	-	+	<i>L.mono</i>	+	PD
	PV	c2+	C13	Filet of hake, rice and vegetables	/	/	/	/	-	+	<i>L.mono</i>	+	PD
	PV	c2+	B5	Chinese noodles and crunchy vegetables	/	/	/	/	+ <i>L.mono</i>	-	no colony on plate (after LX broth: <i>L.mono</i> )	-	ND
	I 17	c2+	VC 5	Cooked pasta with cheese	L.4.18	<i>L.mono</i> 1/2a	Se : 72h at 5°C	3.6	-	+	<i>L.mono</i>	+	PD
	I 17	c2+	VC 28	Pizza	L.4.23	<i>L.mono</i> 1/2a	Se : 72h at 5°C	2.6	-	+	<i>L.mono</i>	+	PD
	I 17	c2+	VC 15	Galette of black corn	L.4.47	<i>L.mono</i> 4b	Se : 72h at 5°C	2.0	+ <i>L.mono</i>	-	-	-	ND
	I 17	c2+	VC 17	Vegetable gratin with pork	L.4.47	<i>L.mono</i> 4b	Se : 72h at 5°C	2.0	+ <i>L.mono</i>	-	-	-	ND
	I 17	c2+	VC 19	Chinese pasta with vegetables	L.4.32	<i>L.mono</i> 1/2b	Se : 72h at 5°C	2.4	+ <i>L.mono</i>	-	-	-	ND
	I 17	C3+	VC 61	Hazelnut cake	L.4.29	<i>L.mono</i> 1/2b	Se : 72h at 5°C	1.8	-	+	<i>L.mono</i>	+	PD
Environmental samples 6	PV	e1+	O18	Water rinsing	/	/	/	/	+ <i>L.mono</i> <i>L.innocua</i>	-	<i>L.innocua</i>	-	ND
	PV	e2+	B16	Surface sample Workshop cutting table	/	/	/	/	-	+	<i>L.mono</i>	+	PD
	PV	e2+	M12	Surface sample Slicer stand delicatessen				0,6	-	+	<i>L.mono</i>	+	PD
	PV	e3+	M10	Meat products residue	/	/	/	/	+	-	no colony on plate	-	ND
	PV	e3+	Q14	Residues wast meat product	L214	<i>L. mono</i>	sp	21	+	-	-	-	ND

➤ **Negative deviations:**

A positive result is obtained by the reference method whereas a negative result is obtained by the alternative method.

Eighteen negative deviations were observed (including ten for samples naturally contaminated):

- 10 negative deviations (d1+: Q15, d3+:R4, s1+:A7, s2+:J7, v3+: A6, c2+: VC15, c2+: VC17, c2+: VC19, e3+:M10, e3+:Q14): the protocol of the alternative method was applied and non typical colonies were observed. Due to the difference of sampling between the two methods, no cell of *L. monocytogenes* may have been taken in the sampling for the alternative method.
- 2 negative deviations (m2+: C16, e1+: O18): the protocol of the alternative method was applied and colonies of *Listeria* other than *L. monocytogenes* were observed but no typical colonies of *L.monocytognes*. Due to the difference of sampling between both methods, no cell of *L. monocytogenes* may have been taken in the sampling for the alternative method.
- 5 negative deviations (m3+:C8, m3+:D16, d1+: N1,d3+: V2, d3+: W7) are false negative results, highlighted by the confirmation protocol of the alternative method. It is probable that the enrichment did not allow to reach the threshold of the VIDAS LMX method.
- 1 negative deviation (c2+:B5) is a false negative result. The confirmation protocol of the alternative method was applied and non typical colonies were observed. However a second enrichment in LX broth followed by an isolation on selective agar media showed the presence of typical colonies confirmed as *L. monocytogenes*. It is probable that the enrichment did not allow to reach the threshold of the VIDAS LMX method.

➤ **Positive deviations:**

A positive result is obtained by the alternative method whereas a negative result is obtained by the reference method.

Twenty-three- positive deviations (m1+: B1, m1+: B3, m1+: J4, d3+: U8, d3+: Y2, d3+: T12, d3+: W5, v1+: M5, v1+: J15, v2+: D1, v2+: I9, v2+:K5, v2+: O15, v3+: J21, c1+: F7, c1+: VC1, c1+: VC27, c2+: C13, c2+: VC5, c2+: VC28,c3+: VC61, e2+: B16, e2+: M12) were observed. Due to the difference of sampling between the two methods, no cell of *L. monocytogenes* may have been present in the sampling of the reference method.

Table 7 show the differences between negative deviations and positive deviations and the acceptability limits for each category.

Table 7: acceptability limits

Category	Type	TND	PD	(TND-PD)	Acceptability limit (AL)	Observation
<b>Meat products</b> ①	m1	0	3	/	/	(TND-PD) ≤ AL for unpaired data
	m2	1	0			
	m3	2	0			
	<b>Total</b>	<b>3</b>	<b>3</b>	<b>0</b>	<b>(TND – PD)<sub>AL=3</sub></b>	
<b>Dairy products</b> ②	d1	2	0	/	/	
	d2	0	0			
	d3	3	4			
	<b>Total</b>	<b>5</b>	<b>4</b>	<b>1</b>	<b>(TND – PD)<sub>AL=3</sub></b>	
<b>Seafood products</b> ③	s1	1	0	/	/	
	s2	1	0			
	s3	0	0			
	<b>Total</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>(TND – PD)<sub>AL=3</sub></b>	
<b>Vegetal products</b> ④	v1	0	2	/	/	
	v2	0	4			
	v3	1	1			
	<b>Total</b>	<b>1</b>	<b>7</b>	<b>-6</b>	<b>(TND – PD)<sub>AL=3</sub></b>	
<b>Composite foods</b> ⑤	c1	0	3	/	/	
	c2	4	3			
	c3	0	1			
	<b>Total</b>	<b>4</b>	<b>7</b>	<b>-3</b>	<b>(TND – PD)<sub>AL=4</sub></b>	
<b>Environmental samples</b> ⑥	e1	1	0	/	/	
	e2	0	2			
	e3	2	0			
	<b>Total</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>(TND – PD)<sub>AL=3</sub></b>	
<b>All categories</b>	<b>Total</b>	<b>18</b>	<b>23</b>	<b>-5</b>	<b>(TND – PD)<sub>AL=7</sub></b>	

The observed values are below to the acceptability limits for each category and for the combined categories.

The alternative method produces results comparable to the reference method.

### 3.1.7. Study of the storage of the broths

A stability study of the enriched broths stored at 5±3°C for 72 hours was performed on all positive and discordant samples. The broths were reanalyzed and confirmed after storage (results in appendix 3).

Table 8 presents the modifications observed after storage of the broths for 72 h at 5±3°C.

Table 8: Modifications between samples analysed before (T0) and after storage at 5±3°C for 72 hours (T72h) (PV: Previous Validation, TC: type of contamination).

Category	Study	Type	N° Sample	Sample	Code	Strain	TC	CFU/25g	Concordance MR / AM	
									T0	T72h
<b>Meat products</b> ①	PV	m3+	D16	Dry sausage	/	/	/	/	ND	PA
	PV	m3+	C7	Merguez	/	/	/	/	PA	ND
<b>Dairy products</b> ②	PV	d1+	N1	Cow cheese (Rollet of Picardie)	L7	<i>L.mono</i>	Spiking	3,4	ND	PA
	PV	d3+	T12	Cow cheese (Camembert)	/	<i>L.mono</i>	/	5,0	PD	NA
<b>Seafood products</b> ③	PV	s1+	C2	Shrimps	/	/	/	/	PA	ND
<b>Composite foods</b> ⑤	I 17	c2+-	VC28	Pizza	LIS.4.23	<i>L.mono 1/2a</i>	Seeding	2.6	PD	NA
	I 17	c2+	VC12	Couscous	LIS.4.10	<i>L.mono 1/2a</i>	Seeding	8.0	PA	ND

Table 9 presents the differences between negative deviations and positive deviations and the acceptability limits for each category after storage of the broths for 72 h at 5±3°C.

Table 9: acceptability limits after conservation of the enriched broths

Category	Type	TND	PD	(TND-PD)	Acceptability limit (AL)	Observation
<b>Meat products</b> ①	m1	0	3	/	/	(TND-PD) ≤ AL and (TND+PD) ≤ AL for paired data
	m2	1	0			
	m3	2	0			
	<b>Total</b>	<b>3</b>	<b>3</b>	<b>0</b>	<b>(TND – PD)<sub>AL=3</sub></b>	
<b>Dairy products</b> ②	d1	1	0	/	/	
	d2	0	0			
	d3	3	3			
	<b>Total</b>	<b>4</b>	<b>3</b>	<b>1</b>	<b>(TND – PD)<sub>AL=3</sub></b>	
<b>Seafood products</b> ③	s1	2	0	/	/	
	s2	1	0			
	s3	0	0			
	<b>Total</b>	<b>3</b>	<b>0</b>	<b>3</b>	<b>(TND – PD)<sub>AL=3</sub></b>	
<b>Vegetal products</b> ④	v1	0	2	/	/	
	v2	0	4			
	v3	1	1			
	<b>Total</b>	<b>1</b>	<b>7</b>	<b>-6</b>	<b>(TND – PD)<sub>AL=3</sub></b>	
<b>Composite foods</b> ⑤	c1	0	3	/	/	
	c2	5	2			
	c3	0	1			
	<b>Total</b>	<b>5</b>	<b>6</b>	<b>-1</b>	<b>(TND – PD)<sub>AL=3</sub></b>	
<b>Environmental samples</b> ⑥	e1	1	0	/	/	
	e2	0	2			
	e3	2	0			
	<b>Total</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>(TND – PD)<sub>AL=3</sub></b>	
<b>All categories</b>	<b>Total</b>	<b>19</b>	<b>21</b>	<b>-2</b>	<b>(TND – PD)<sub>AL=6</sub></b>	

The observed values are below or equal to the acceptability limits for each category.

The alternative method produces results comparable to the reference method. It is possible to store the incubated LMX broth for 72 hours at 2-8°C before performing the VIDAS LMX assay and/or confirmation.

### 3.2. Relative level of detection study

#### 3.2.1. Matrices

Different “strain-matrix” couples were studied in parallel with the reference method and the VIDAS LMX method, for the studied categories.

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

Characteristics of the strain and of the matrix are shown in table 10.

Table 10 : « matrix – strain » couples of the relative level of detection

Category	Matrix	Strain	Code	Strain origin	Study
① Meat products	Rillettes	<i>L. monocytogenes</i> 1/2b	/	/	2009
② Dairy products	Raw milk	<i>L. monocytogenes</i> 1/2b	/	/	2009
	Raw milk cheese (specific protocol)	<i>L. monocytogenes</i> 1/2a	/	/	2010
③ Seafood products	Smoked salmon	<i>L. monocytogenes</i> 1/2a	/	/	2009
④ Vegetal products	Grated red cabbage	<i>L. monocytogenes</i> 4b	/	/	2009
⑤ Composite foods	Salad of pasta	<i>L. monocytogenes</i> 3a	LIS.4.46	Goat cheese sandwich	2017
	Mixed salad	<i>L. monocytogenes</i> 1/2a	LIS.4.5	Ham and vegetables	2017
⑥ Environmental samples	Process water	<i>L. monocytogenes</i> 1/2c	/	/	2009

### 3.2.2. Protocol of contamination

- **Protocol for categories 1, 2, 3, 4 and 6**

One negative control and several levels of contaminations (4 or 5) were tested.

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

As the two methods have no common step, test portions of 25 g were prepared for each level of contamination and individually inoculated with a calibrated bacterial suspension. Several dilutions of a calibrated and low-concentrated suspension of *Listeria monocytogenes* were used to spike the samples before analysis.

- **Protocol for the category 5**

Three levels of contamination were prepared consisting of a negative control level, a low level, and a higher level. Only one strain of the target analyte is used to contaminate the low and the high level. The negative control level shall not produce positive results. Five replicates are tested for this level. The low level shall be the theoretical detection level, it has been contaminated at 0.7 - 1 CFU per test portion to obtain fractional recovery results. Twenty replicates are tested for this level.

The higher level shall be just above the theoretical detection level, it has been contaminated at 2 - 3 CFU per test portion. Five replicates are tested for this level.

Food products were contaminated using the seeding protocol. Bulk contaminations were performed on the matrices for the different levels of contamination, then the matrices were stored at 5±3°C for two days before analysis. Samples were then analyzed by the reference and the alternative method. For the alternative method, only the minimal incubation time of the broth of the alternative method was tested.

### 3.2.3. Results and calculation of the RLODs

Raw results are shown in appendix 4.

The RLODs calculations were performed according to the standard ISO 16140-2 : 2016 using the Excel spreadsheet available for download at <http://standards.iso.org/iso/16140>. Values of the RLODs are presented in table 11.

*Table 11 : RLODs values for the categories of the application scope (RLOD: the estimated relative level of detection value, RLODU: the upper limit of the 95% confidence interval for RLOD, RLODL: the lower limit of the 95% confidence interval for RLOD,  $b=\ln(\text{RLOD})$ : logarithm of the RLOD value,  $sd(b)$ : standard deviation of  $b$ , z-Test statistic: absolute value of the test statistic of the z-Test with the null hypothesis  $H_0: b=0$ , p-value: p-value of the z-Test)*

Name	AL	RLOD	RLODL	RLODU	$b=\ln(\text{RLOD})$	$sd(b)$	z-Test statistic	p-value
Rillettes	2.5	<b>1.194</b>	0.470	3.033	0.177	0.466	0.381	0.703
Raw milk	2.5	<b>0.735</b>	0.312	1.735	-0.307	0.429	0.716	1.526
Raw milk cheese	2.5	<b>0.760</b>	0.256	2.261	-0.274	0.545	0.503	1.385
Smoked salmon	2.5	<b>0.725</b>	0.222	2.362	-0.322	0.591	0.545	1.414
Grated red cabbage	2.5	<b>1.520</b>	0.504	4.583	0.419	0.552	0.759	0.448
Mixed salad	2.5	<b>0.272</b>	0.071	1.038	-1.303	0.670	1.945	1.948
Salad of pasta	2.5	<b>1.151</b>	0.519	2.553	0.141	0.398	0.354	0.723
Process water	2.5	<b>0.665</b>	0.293	1.510	-0.407	0.410	0.994	1.680
<b>Combined</b>	<b>2.5</b>	<b>0.860</b>	<b>0.639</b>	<b>1.158</b>	<b>-0.151</b>	<b>0.149</b>	<b>1.015</b>	<b>1.690</b>

The  $\text{LOD}_{50}$  calculations according to Wilrich & Wilrich POD-LOD calculation program - version 13, are given in Table 12.

*Table 12:  $\text{LOD}_{50\%}$  for the alternative and reference method*

Matrix	Strain	$\text{LOD}_{50\%}$ (CFU/25g) alternative method	$\text{LOD}_{50\%}$ (CFU/25g) Reference method
Rillettes	<i>L. monocytogenes</i> 1/2b	<b>0.903</b>	0.787
Raw milk	<i>L. monocytogenes</i> 1/2b	<b>0.387</b>	0.514
Raw milk cheese	<i>L. monocytogenes</i> 1/2a	<b>0.561</b>	0.683
Smoked salmon	<i>L. monocytogenes</i> 1/2a	<b>0.344</b>	0.441
Grated red cabbage	<i>L. monocytogenes</i> 4b	<b>0.621</b>	0.474
Mixed salad	<i>L. monocytogenes</i> 3a	<b>0.563</b>	1.351
Salad of pasta	<i>L. monocytogenes</i> 1/2a	<b>0.452</b>	0.396
Process water	<i>L. monocytogenes</i> 1/2c	<b>0.303</b>	0.468
<b>Combined results</b>		<b>0.494</b>	<b>0.579</b>

#### 3.2.4. Interpretation and conclusion

The RLODs values are below the acceptability limits, meaning that, as stated in ISO 16140-2/A1 (2024), the maximum increase in LOD of the alternative versus the reference method is not considered as relevant in consideration of the fitness for purpose of the method.

In conclusion, alternative and reference methods show similar LODs values for the detection of *Listeria monocytogenes* in the categories tested.

### 3.3. Inclusivity and exclusivity study

#### 3.3.1. Test protocols

##### ➤ **Protocol for inclusivity**

A culture of each *Listeria monocytogenes* strain was prepared in a nutritive broth. A supplemented LMX broth was then inoculated with around 10 *Listeria monocytogenes* cells per 225 ml and incubated for 26 hours at 37°C before carrying out the VIDAS LMX test.

##### ➤ **Protocol for exclusivity**

The different negative strains were cultured at 37°C for 24 h and diluted in nutritive broth. Non-selective broths were inoculated to obtain levels of around 10<sup>5</sup> cells in 225 ml broth before carrying out the VIDAS LMX test.

In the event of results discordant with the expected results, a new assay must be performed with, in parallel, the reference method and the complete VIDAS LMX method.

#### 3.3.2. Results

The results are presented in appendix 5.

Sixty strains of *Listeria monocytogenes* were detected out of the 60 tested by the VIDAS LMX method. Note, however, that 2 of them (L15 and L176) required the addition of 25 ml of UHT milk in order to obtain a positive test. Analysis of the L124 strain in LMX broth gave a weakly positive result (TV=0.05). A new test with the addition of UHT milk gave a TV=0.2.

The study of 31 strains not belonging to the genus *Listeria* or non-*Listeria monocytogenes* showed cross-reactions with one strain of *Bacillus sphaericus* and two strains of *Staphylococcus* (*S. intermedius* and *S. aureus*) after enrichment in the non-selective enrichment broth.

For these 3 non-target strains, the test values (TV) were just above the threshold and the inoculation levels were high. Negative results were obtained after enrichment in the selective broth for the method.

#### 3.3.3. Conclusion

The selectivity of the method is satisfactory.

### 3.4. Practicability

#### 1. Storage conditions of the components (see package insert) – Expiration date of unopened products (see package insert)

The storage temperature of the VIDAS LMX kit is 2-8°C.

The kit expiration date is shown on the box label and on the various vials.

#### 2. Conditions of use after first use (see package insert)

The kit components should be stored at 2-8°C. If stored as recommended (pouch correctly resealed with desiccant after use, etc.), all the components will remain stable until the expiration date indicated on the label.

#### 3. Time-to-result

Step	Time required (Day)	Time required (Day)
	VIDAS LMX method	EN ISO 11290-1 standard
Pre-enrichment	D0	D0
Inoculation of Fraser	/	D1
Inoculation of LX broth	D1 (specific protocol only)	/
Streaking on selective media	/	D1 & D2
Perform VIDAS LMX test	D1	/
Plate reading	/	D4
<b>Obtention of negative results</b> (if no characteristic colonies)	<b>D1</b>	<b>D4 to D5</b>
Confirmation testing	/	D2 to D5
<b>Obtention of negative results</b> (after negative confirmation testing if necessary)	<b>D2</b>	<b>D5 to D11</b>

Step	Time required (Day)	Time required (Day)
	VIDAS LMX method	EN ISO 11290-1 standard
<b>Obtention of positive results</b> (confirmation of typical colonies)	<b>D2 to D8</b>	<b>D8 to D11</b>
- Confirmation by reference method tests (CAMP-test, haemolysis, etc.), including purification	D4 to D8	D4 to D7
- Confirmation by reference method tests (CAMP-test, haemolysis, sugars (identification gallery)	D4	/
- Confirmation by plating on chromogenic medium	D2	/

#### 4. Steps common to the reference method

Confirmation testing (reference method tests including purification)

## 4. Interlaboratory study

### 4.1. Organization of the interlaboratory study

#### 4.1.1. Participating laboratories

The interlaboratory study was realized by the Expert Laboratory and by sixteen collaborators.

#### 4.1.2. Experimental parameters

- Matrix: pasteurized milk (25 ml)
- Strain: *Listeria monocytogenes* (dairy product origin).
- Number of samples per laboratory: 24 samples per method were prepared to represent 3 levels of contamination, with 8 samples per level for each method (48 samples per parcel).

#### 4.1.3. Control of the experimental parameters

##### 4.1.3.1. Samples preparation and spiking

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

Table 13: contamination levels

Level	Samples	Targeted theoretical level (CFU/25 g)	Real level (CFU/25 g)
Level 0 (L <sub>0</sub> )	5-6-9-10-13-14-19-20 27-28-35-36-41-42-43-44	0	0
Low level (L <sub>1</sub> )	3-4-11-12-17-18-23-24 29-30-31-32-39-40-45-46	3	3,26
High level (L <sub>2</sub> )	1-2-7-8-15-16-21-22 25-26-33-34-37-38-47-48	30	22,2

##### 4.1.3.2. Temperature and state of the samples

#### Analysis of temperature monitoring curves during transport

Temperatures registered by the temperature probes during shipment were stable and were between 0°C and 8°C for all the collaborators.

#### Receipt temperatures and receipt times

The measured temperatures are listed in the table below.

Table 14: temperature measurements

Collaborator	Temperatures (°C)		Comments
	communicated by the collaborator	measured by the temperature probe	
A	3.1	1.2	
B	4.5	2.5	
C	3.3	1.5	
D	4.2	4.0	
E	2.7	3.0	
F	Not communicated	2.5	Withdrawn
G	Not communicated	1.5	
H	2.6	3.0	
I	6.0	3.5	
J	4.1	4.0	Receipt at D1, assays at D2
K	6.1	0.1	
L	4.8	-0.4	
M	1.4	2.1	
N	3.9	3.5	
O	7.0	/	Receipt at D2
P	6.0	4.1	Receipt at D2

Fourteen of the 16 collaborators received their samples the day after they were sent.

## 4.2. Results

Twelve laboratories out of the 16 laboratories were finally retained for the study (exclusion of laboratories F, J, O and P).

### 4.2.1. Total viable counts

For the whole laboratories, the total viable counts at 30°C vary between 350 CFU/g and 20 000 CFU/g.

### 4.2.2. Expert Laboratory results

The results obtained by the Expert Laboratory are summarized in table 15 (raw results in appendix 6).

Table 15 : positive results obtained by Expert Laboratory by both methods

Contamination level	Alternative method	Reference method
$L_0$	0/8	0/8
$L_1$	7/8	8/8
$L_2$	8/8	8/8

The results are consistent with those expected.

### 4.2.3. Collaborators results

The results are summarized in table 16. Raw results in appendix 6.

- Reference and alternative methods results

Table 16 : results for all laboratories

Alternative method							Reference method			
Lab.	$L_0$		$L_1$		$L_2$		Lab.	$L_0$	$L_1$	$L_2$
	Before. Conf.	After. Conf.	Before. Conf.	After. Conf.	Before. Conf.	After. Conf.				
A	0 / 8	0 / 8	8 / 8	8 / 8	8 / 8	8 / 8	A	0 / 8	8 / 8	8 / 8
B	0 / 8	0 / 8	8 / 8	8 / 8	8 / 8	8 / 8	B	0 / 8	8 / 8	8 / 8
C	0 / 8	0 / 8	8 / 8	8 / 8	8 / 8	8 / 8	C	0 / 8	8 / 8	8 / 8
D	0 / 8	0 / 8	8 / 8	8 / 8	8 / 8	8 / 8	D	0 / 8	8 / 8	8 / 8
E	0 / 8	0 / 8	8 / 8	8 / 8	8 / 8	8 / 8	E	0 / 8	8 / 8	8 / 8
G	0 / 8	0 / 8	8 / 8	8 / 8	8 / 8	8 / 8	F	0 / 8	8 / 8	8 / 8
H	0 / 8	0 / 8	8 / 8	8 / 8	4 / 8	4 / 8	G	0 / 8	8 / 8	8 / 8
I	0 / 8	0 / 8	8 / 8	8 / 8	8 / 8	8 / 8	H	0 / 8	8 / 8	8 / 8
K	0 / 8	0 / 8	8 / 8	8 / 8	7 / 8	7 / 8	I	0 / 8	8 / 8	7 / 8
L	0 / 8	0 / 8	8 / 8	8 / 8	8 / 8	8 / 8	J	0 / 8	8 / 8	8 / 8
M	0 / 8	0 / 8	8 / 8	8 / 8	8 / 8	8 / 8	K	0 / 8	8 / 8	8 / 8
N	0 / 8	0 / 8	8 / 8	8 / 8	8 / 8	8 / 8	L	0 / 8	8 / 8	8 / 8
<b>Total</b>	<b>0 / 96</b>	<b>0 / 96</b>	<b>96 / 96</b>	<b>96 / 96</b>	<b>91 / 96</b>	<b>91 / 96</b>	<b>Total</b>	<b>0 / 96</b>	<b>96 / 96</b>	<b>95 / 96</b>

For the level  $L_2$ , the laboratory H found 4 negative results with the alternative method VIDAS LMX. The isolation on the different agar plates were carried out a second time (reisolation of the LMX broth on Ottaviani & Agosti agar, incubation at 37°C then subculture on Ottaviani & Agosti agar) and confirmed the first result.

These samples were probably not contaminated by the Expert Laboratory. It's important to notice that these samples are the last 4 of the series of 8 samples contaminated at the high level ( $L_2$ ). Nevertheless, the results of this laboratory H were kept in the exploitation of the results following the request of the Technical Committee.

For the high level of contamination  $L_2$ , the laboratory K found one sample  $L_2$  with a negative result by the reference method and one sample with a negative result by the alternative method. None deviation on the instructions was reported by the laboratory K, the results was exploited.

### 4.2.4. Analysis of the results and collaborators selected for the statistical analysis

The results of 12 laboratories were considered.

## 4.2.5. Interpretation of the results and statistical analysis

### 4.2.5.1. Interpretation of the results

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

Table 17 : tests results for both methods (PA: positive agreement, TNA: total negative agreement, TND: total negative deviation, PD: positive deviation)

Level	Alternative method (AM)	Reference method (RM)		
		RM+	RM-	Total
$L_0$	AM+	PA= 0	PD= 0	0
	AM-	TND= 0	TNA= 96	96
	<b>Total</b>	<b>0</b>	<b>96</b>	<b>96</b>
$L_1$	AM+	PA= 96	PD= 0	96
	AM-	TND= 0	TNA= 0	0
	<b>Total</b>	<b>96</b>	<b>0</b>	<b>96</b>
$L_2$	AM+	PA= 90	PD= 1	91
	AM-	TND= 5	TNA= 0	5
	<b>Total</b>	<b>95</b>	<b>1</b>	<b>96</b>
$L_1+L_2$	AM+	PA= 186	PD= 1	187
	AM-	TND= 5	TNA= 0	5
	<b>Total</b>	<b>191</b>	<b>1</b>	<b>192</b>

### 4.2.5.2. Specificity of the methods

The percentage specificity of the reference method and the alternative method is calculated using the data after confirmation, based on the results of level  $L_0$ .

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

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

where:

$N_-$  is the number of all  $L_0$  tests;

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

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

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

The sensitivity of the two methods, the relative trueness of the alternative method and the false positive ratio of the two methods are calculated. Results are presented in the table 18.

Table 18 : summary of the sensitivity study results for all the categories of the application scope

Parameter	ISO 16140-2 formulas	Results for all the categories
Sensitivity of the alternative method	$SE_{alt} = \frac{(PA + PD)}{(PA + TND + PD)} \times 100 \%$	94.8%
Sensitivity of the reference method	$SE_{ref} = \frac{(PA + TND)}{(PA + TND + PD)} \times 100 \%$	99%
Relative trueness	$RT = \frac{(PA + TNA)}{N} \times 100 \%$	93.8%
False positive ratio	$FPR = \frac{PA_{FP(alt)} + PD_{FP(alt)}}{TNA} \times 100 \%$	0.0%
False negative ratio	$FNR = \frac{NA_{FN(alt)} + ND_{FN(alt)}}{PA + TND + PD}$	0.00

4.2.5.4. Determination of the acceptability limit and conclusion

The difference between (TND – PD) for the level where fractional recovery was obtained ( $L_2$ ) is calculated. The observed value found for (TND – PD) shall not be higher than the acceptability limit (AL). The AL is defined as [(TND – PD)<sub>max</sub>] and calculated per level where fractional recovery was obtained as described below using the following three parameters:

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

where

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

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

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

where

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

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

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

where

$N_x$  = the total number of samples tested for level  $x$  ( $L_1$  or  $L_2$ ) by all laboratories.

The AL is not met when the observed value is higher than the AL. When the AL is not met, investigations should be made (e.g. root cause analysis) in order to provide an explanation of the observed results.

Based on the AL and the additional information, it is decided whether the alternative method is regarded as not fit for purpose. The reasons for acceptance of the alternative method in case the AL is not met shall be stated in the study report.

In this study, fractional positive results are observed at level  $L_2$  only. The different parameters obtained by the calculation are detailed in the table below:

*Table 19 : values obtained for the determination of the acceptability limit*

Parameter	Value
<b><math>N_{L2}</math> : number of samples tested at level 2</b>	96
<b><math>(p+)_{ref}</math></b>	0.989
<b><math>(p+)_{alt}</math></b>	0.948
<b><math>(TND-PD)_{max}</math></b>	4.22
<b><math>(TND-PD)</math></b>	4

The value (ND-PD) is inferior to the AL, so the requirements of the standard ISO 16140-2/ A1 (2024) are fulfilled.

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

#### 4.2.5.5. *Determination of the relative level of detection*

The RLOD was calculated using the EN ISO 16140-2:2016 Excel spreadsheet available at [http://standards.iso.org/iso/16140/-2/ed-1/en/RLOD\\_inter-lab-study\\_16140-2\\_AnnexF\\_ver1\\_28-06-2017.xls](http://standards.iso.org/iso/16140/-2/ed-1/en/RLOD_inter-lab-study_16140-2_AnnexF_ver1_28-06-2017.xls).

As there is limited experience with the interpretation of this approach, the results are used only for information. Results are shown in the table below :

*Table 20 : values obtained for the determination of the relative level of detection*

Method	LOD50%	LOD95%	RLOD
Reference	0.83 [0.63 ; 1.10]	3.60 [2.71 ; 4.77]	2.02 [1.48 – 2.77]
Alternative	1.68 [1.31 ; 2.17]	7.28 [5.65 ; 9.38]	

## 5. General conclusion

- **Method comparison study**

The performances of the VIDAS LMX test are comparable to those of the standard ISO 11290-1:2017.

This study concerned 495 samples of six categories of products:

- Meat products
- Dairy products
- Seafood products
- Vegetal products
- Composite foods
- Environmental samples

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

- sensitivity of the alternative method : 90.5%
- sensitivity of the reference method : 90.9%
- relative trueness: 90.6%
- false positive ratio: 0%
- false negative ratio: 0.02

Some discordant results were observed. These discordances may be mostly linked to the sampling which is different between the two methods in an unpaired study.

The relative level of detection of the alternative method and the reference method was evaluated for all categories. The results are comparable between the two methods. It varies between 0.665 and 1.520 CFU in 25 g for the alternative method for all categories.

The specificity of the method is satisfactory.

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

- **Interlaboratory study**

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

Le Lion d'Angers, December 18, 2026  
Guillaume MESNARD  
Method Validation Supervisor

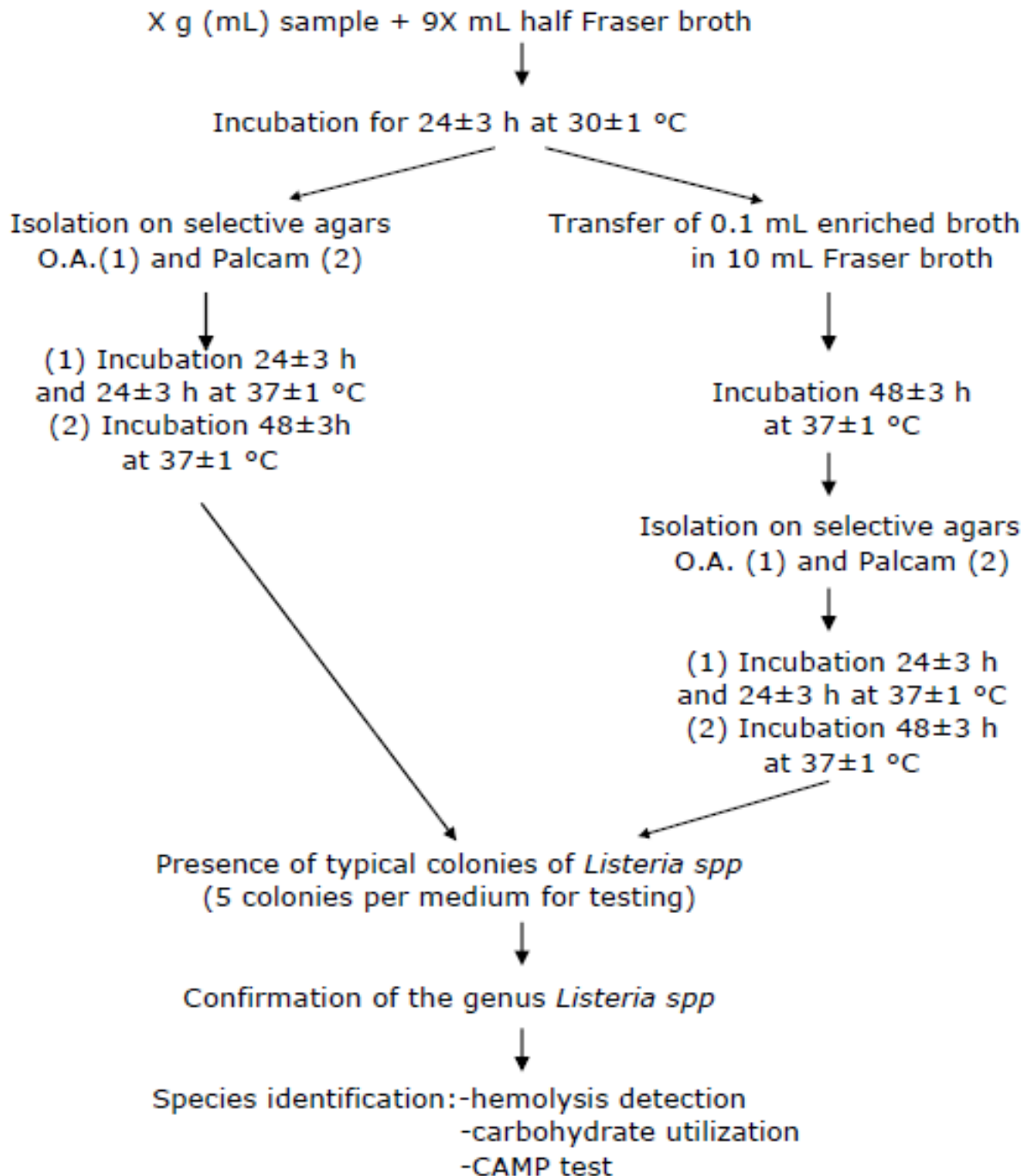


## **APPENDIX 1**

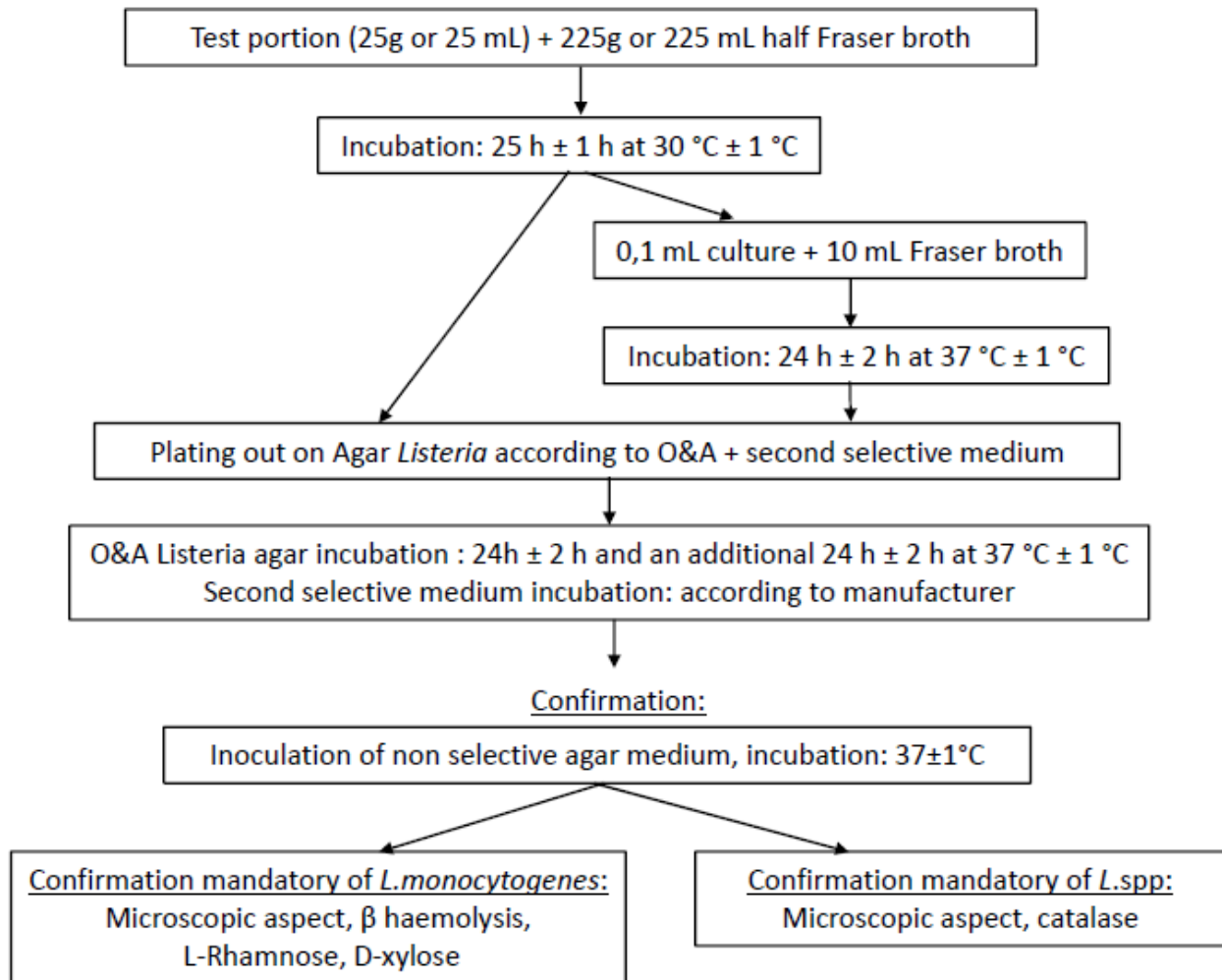
### **Protocols of the reference method**

### **and of the alternative method**

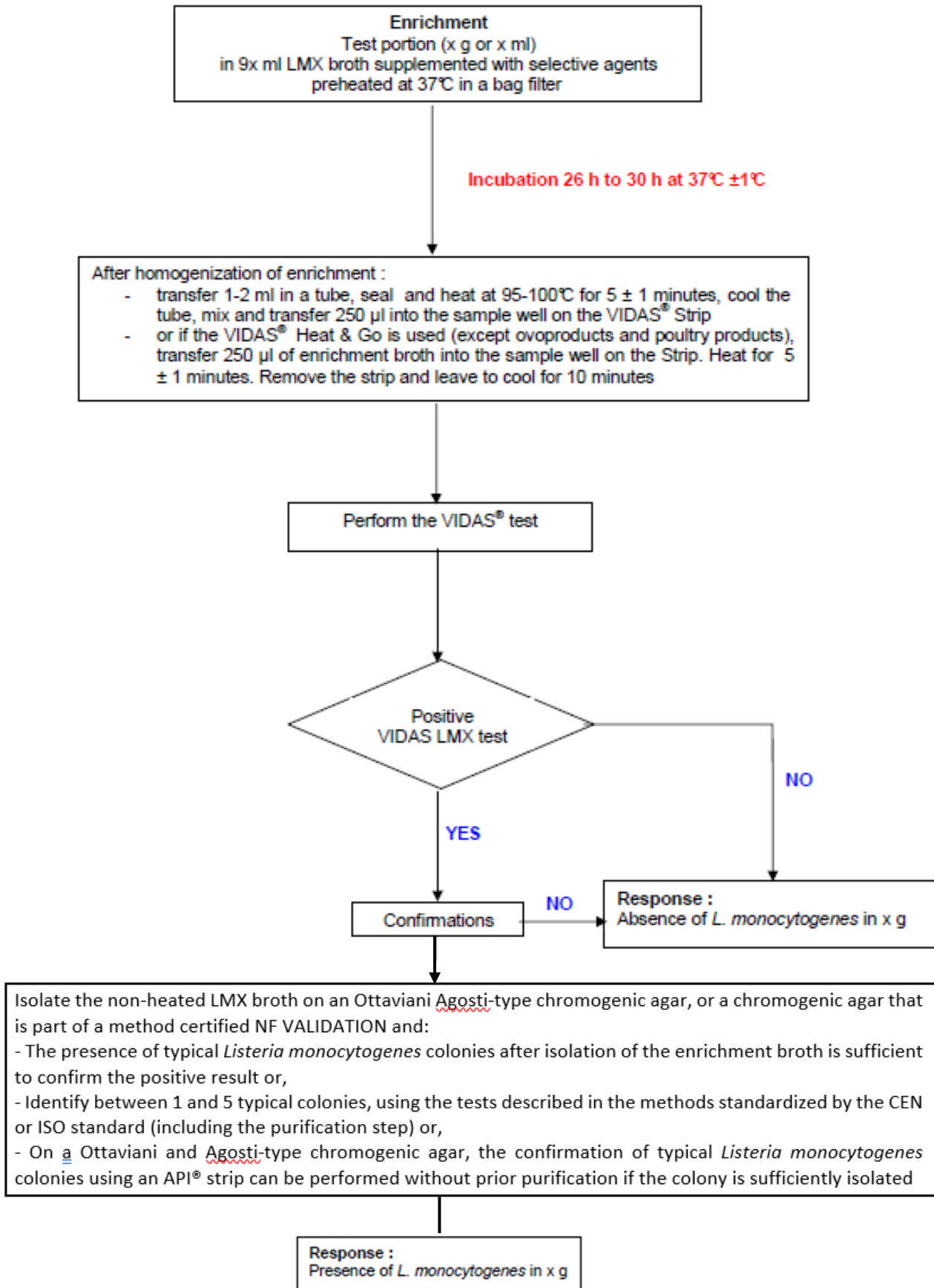
# EN ISO 11290-1/A1 : 2004



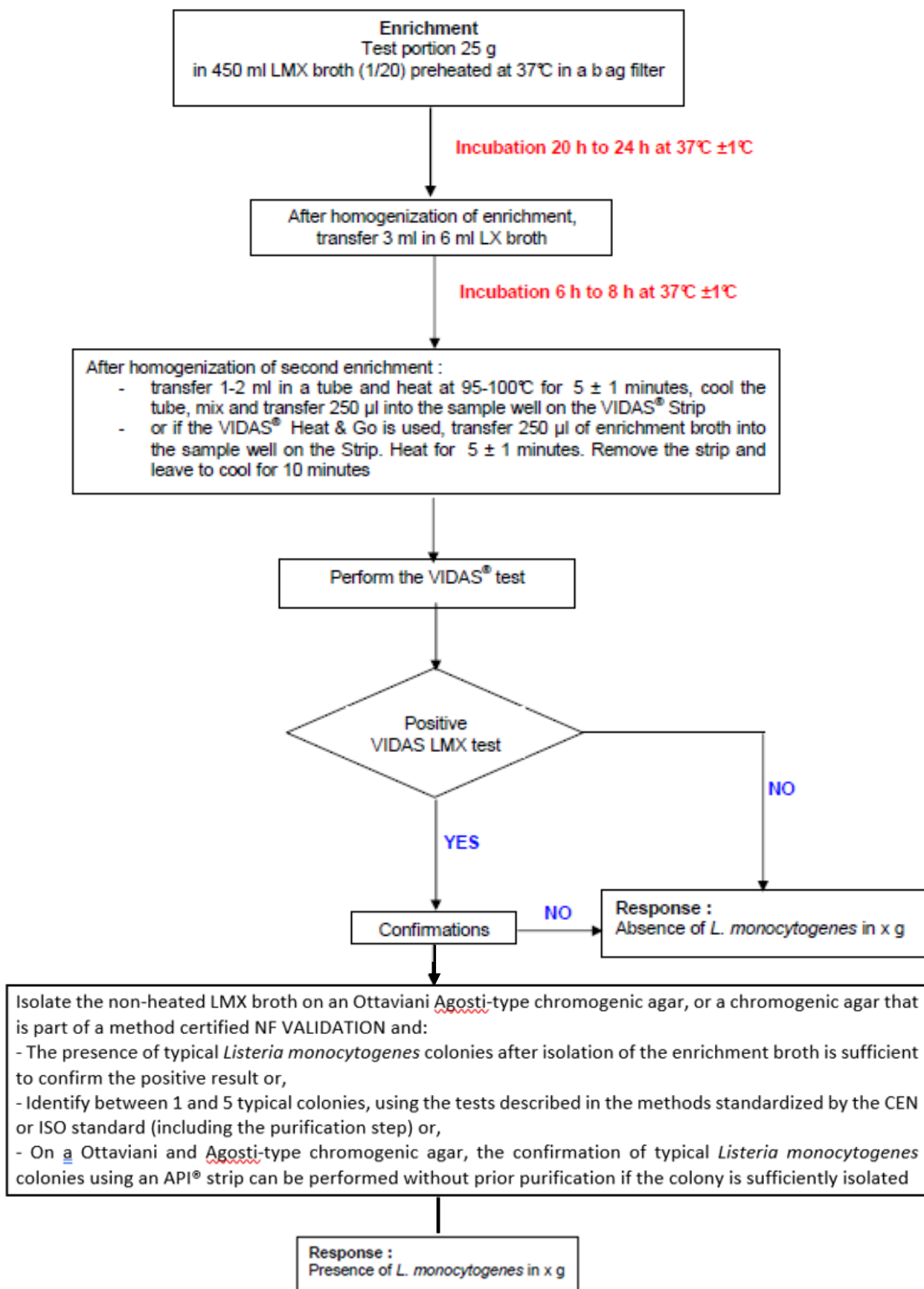
EN ISO 11290-1 / 2017



## VIDAS LMX : general protocol



## VIDAS LMX : specific protocol for raw milk cheeses



## **APPENDIX 2**

### **Artificial contaminations**

Code	Sample	Category	Artificial contamination					
			Strain			Stress		
			N°	Strain	Origin	Type	Evaluation	CFU/25g
G19	New water	EN1	L141	<i>Listeria monocytogenes</i>	Environment	30 minutes at 55°C then 30 minutes at -80°C	nd	8,1
G20	Frozen water	EN1	L141	<i>Listeria monocytogenes</i>	Environment	30 minutes at 55°C then 30 minutes at -80°C	nd	16,2
G21	Surface delicatessen stand floor	EN2	L141	<i>Listeria monocytogenes</i>	Environment	30 minutes at 55°C then 30 minutes at -80°C	nd	12,2
I1	Zucchini	PV3	L29	<i>Listeria monocytogenes</i>	Potato	45 minutes at 55°C then 30 minutes at -80°C	>2,92	1,7
I2	Vegetable gardener	PV3	L29	<i>Listeria monocytogenes</i>	Potato	45 minutes at 55°C then 30 minutes at -80°C	>2,92	2,5
I3	Carrot puree	PV3	L29	<i>Listeria monocytogenes</i>	Potato	45 minutes at 55°C then 30 minutes at -80°C	>2,92	2,1
I4	Plain grated carrots	PV2	L29	<i>Listeria monocytogenes</i>	Potato	45 minutes at 55°C then 30 minutes at -80°C	>2,92	3,3
J14	Frozen minced onions	PV1	L31	<i>Listeria monocytogenes</i>	Parsley	45 minutes at 55°C then 30 minutes at -80°C	0,5	3,4
J15	Mix 3 peppers under vacuum	PV2	L31	<i>Listeria monocytogenes</i>	Parsley	45 minutes at 55°C then 30 minutes at -80°C	0,5	4,3
J16	Plain grated carrots	PV2	L47	<i>Listeria monocytogenes</i>	Hash browns	45 minutes at 55°C then 30 minutes at -80°C	3,4	27,2
J17	Raw vacuum-packed zucchini	PV2	L47	<i>Listeria monocytogenes</i>	Hash browns	45 minutes at 55°C then 30 minutes at -80°C	3,4	13,6
J18	Carrots raw slices under vacuum	PV2	L47	<i>Listeria monocytogenes</i>	Hash browns	45 minutes at 55°C then 30 minutes at -80°C	3,4	20,4
J19	Fresh vacuum-packed green beans	PV2	L31	<i>Listeria monocytogenes</i>	Parsley	45 minutes at 55°C then 30 minutes at -80°C	0,5	6,8
J20	Seasoned carrots and cabbage	PV3	L31	<i>Listeria monocytogenes</i>	Parsley	45 minutes at 55°C then 30 minutes at -80°C	0,5	5,1
J21	Cucumber vinaigrette	PV3	L47	<i>Listeria monocytogenes</i>	Hash browns	45 minutes at 55°C then 30 minutes at -80°C	3,4	17,0
L2	Couscous vegetables	PV3	L58	<i>Listeria monocytogenes</i>	Salad	45 minutes at 55°C then 30 minutes at -80°C	0,5	3,9
L3	Green beans with garlic	PV3	L58	<i>Listeria monocytogenes</i>	Salad	45 minutes at 55°C then 30 minutes at -80°C	0,5	1,9
L4	Grated carrots	PV2	L58	<i>Listeria monocytogenes</i>	Salad	45 minutes at 55°C then 30 minutes at -80°C	0,5	4,9
M1	Mixed salad	PV2	L125	<i>Listeria monocytogenes</i>	Fried vegetables	45 minutes at 55°C then 30 minutes at -80°C	0,6	0,7
M2	Maches	PV2	L125	<i>Listeria monocytogenes</i>	Fried vegetables	45 minutes at 55°C then 30 minutes at -80°C	0,6	0,6
M3	Green beans	PV3	L125	<i>Listeria monocytogenes</i>	Fried vegetables	45 minutes at 55°C then 30 minutes at -80°C	0,6	0,3
M4	Red cabbage vinaigrette	PV3	L125	<i>Listeria monocytogenes</i>	Fried vegetables	45 minutes at 55°C then 30 minutes at -80°C	0,6	0,4
M12	PS Meat stand slicer	EN2	L149	<i>Listeria monocytogenes</i>	Environment	45 minutes at 55°C then 30 minutes at -80°C	0,5	0,6
M13	Surface dirty knife	EN2	L149	<i>Listeria monocytogenes</i>	Environment	45 minutes at 55°C then 30 minutes at -80°C	0,5	0,9
M14	Water	EN1	L149	<i>Listeria monocytogenes</i>	Environment	45 minutes at 55°C then 30 minutes at -80°C	0,5	1,2
M15	Water	EN1	L149	<i>Listeria monocytogenes</i>	Environment	45 minutes at 55°C then 30 minutes at -80°C	0,5	1,5
N1	Rollot de picardie (pasteurized)	PL1	L7	<i>Listeria monocytogenes</i>	Munster crust	30 minutes at 55°C then 30 minutes at -80°C	0,6	3,4
N2	Epoisses (pasteurized)	PL1	L7	<i>Listeria monocytogenes</i>	Munster crust	30 minutes at 55°C then 30 minutes at -80°C	0,6	6,8
N3	Raw milk	PL1	L7	<i>Listeria monocytogenes</i>	Munster crust	30 minutes at 55°C then 30 minutes at -80°C	0,6	8,5
N4	Raw milk	PL1	L7	<i>Listeria monocytogenes</i>	Munster crust	30 minutes at 55°C then 30 minutes at -80°C	0,6	5,1
N5	Cucumber vinaigrette	PV3	L119	<i>Listeria monocytogenes</i>	Spinach	30 minutes at 55°C then 30 minutes at -80°C	1,4	8,8
N6	Mixed vegetables (4th range)	PV2	L119	<i>Listeria monocytogenes</i>	Spinach	30 minutes at 55°C then 30 minutes at -80°C	1,4	13,2
O1	Carrots + celery	PV3	L129	<i>Listeria monocytogenes</i>	Hash browns	30 minutes at 55°C then 30 minutes at -80°C	0,8	6,4
O2	Spring vegetable casserole	PV2	L129	<i>Listeria monocytogenes</i>	Hash browns	30 minutes at 55°C then 30 minutes at -80°C	0,8	4,8
O3	Iceberg lettuce	PV2	L129	<i>Listeria monocytogenes</i>	Hash browns	30 minutes at 55°C then 30 minutes at -80°C	0,8	9,6
O4	Oak leaves	PV2	L129	<i>Listeria monocytogenes</i>	Hash browns	30 minutes at 55°C then 30 minutes at -80°C	0,8	8,0
O5	Pasteurized "little goats"	PL2	L37	<i>Listeria monocytogenes</i>	Raw milk maroille	30 minutes at 55°C then 30 minutes at -80°C	0,5	7,2
O7	Pasteurized goat's cream	PL2	L37	<i>Listeria monocytogenes</i>	Raw milk maroille	30 minutes at 55°C then 30 minutes at -80°C	0,5	4,8
O8	Chaource	PL1	L37	<i>Listeria monocytogenes</i>	Raw milk maroille	30 minutes at 55°C then 30 minutes at -80°C	0,5	9,6
Q14	Meat waste bin residue	EN3	L214	<i>Listeria monocytogenes</i>	Environment	35 minutes at 55°C then 30 minutes at -80°C	2,9	21,0
Q15	Raw milk	PL1	L62	<i>Listeria monocytogenes</i>	Reblochon	35 minutes at 55°C then 30 minutes at -80°C	0,3	6,0
Q16	Raw milk	PL1	L62	<i>Listeria monocytogenes</i>	Reblochon	35 minutes at 55°C then 30 minutes at -80°C	0,3	7,5
AI1	fruity cantal	PL1	L18	<i>Listeria monocytogenes</i>	Munster crust	30 minutes at 55°C then 30 minutes at -80°C	0,3	5,2
AI8	Munster	PL1	L18	<i>Listeria monocytogenes</i>	Munster crust	30 minutes at 55°C then 30 minutes at -80°C	0,3	10,4

Code	Sample	Category	Artificial contamination					
			Strain			Stress		
			N°	Strain	Origin	Type	Evaluation	CFU/25g
AG9	raw milk	PL1	L18	<i>Listeria monocytogenes</i>	Munster crust	30 minutes at 55°C then 30 minutes at -80°C	0,3	7,8
AF2	Little goat	PL2	L7	<i>Listeria monocytogenes</i> 1/2a	Munster crust	35 minutes at 55°C then 30 minutes at -80°C	1,2	1,4
AF7	Goat log	PL2	L32	<i>Listeria monocytogenes</i> 4b	Munster crust	35 minutes at 55°C then 30 minutes at -80°C	1,0	6,3
AF10	Goat cheese	PL2	L9	<i>Listeria monocytogenes</i> 1/2a	Munster crust	35 minutes at 55°C then 30 minutes at -80°C	0,7	2,6
AG2	Blue cheese	PL2	L11	<i>Listeria monocytogenes</i> 1/2a	Munster crust	35 minutes at 55°C then 30 minutes at -80°C	0,6	5,2
AG5	Bresse Blue	PL2	L37	<i>Listeria monocytogenes</i> 1/2b	Raw milk maroille	35 minutes at 55°C then 30 minutes at -80°C	0,4	10,4
AH14	Goat log	PL2	L120	<i>L.monocytogenes</i>	Munster	Culture in NaCl10%, then 30 minutes at 55°C, 30 minutes at -80°C	1,1	4,6
H15	Trou du cru (Cow cheese)	PL1	L120	<i>L.monocytogenes</i>	Munster	Culture in NaCl10%, then 30 minutes at 55°C, 30 minutes at -80°C	1,1	6,8
H16	Maroilles	PL1	L120	<i>L.monocytogenes</i>	Munster	Culture en NaCl10%, then 30 minutes at 55°C, 30 minutes at -80°C	1,1	6,1
A14	Bresse Blue	PL2	L40	<i>Listeria monocytogenes</i> 1/2a	Munster crust	30 minutes at 55°C, 30 minutes at -80°C	1,4	6,4
T1	Reblochon raw milk	FLC	L123	<i>Listeria monocytogenes</i> 4b	Mozzarella	45 minutes at 55°C then 30 minutes at -80°C	1,0	0,7
T2	Brie de Meaux	FLC	L123	<i>Listeria monocytogenes</i> 4b	Mozzarella	45 minutes at 55°C then 30 minutes at -80°C	1,0	0,6
T3	Crotin Chavignol raw milk	FLC	L123	<i>Listeria monocytogenes</i> 4b	Mozzarella	45 minutes at 55°C then 30 minutes at -80°C	1,0	1,1
T4	Raw milk Camembert	FLC	L123	<i>Listeria monocytogenes</i> 4b	Mozzarella	45 minutes at 55°C then 30 minutes at -80°C	1,0	0,9
T5	Raw milk goat	FLC	L229	<i>Listeria monocytogenes</i> 4e	Reblochon	45 minutes at 55°C then 30 minutes at -80°C	0,5	0,2
T6	Small raw milk munster	FLC	L229	<i>Listeria monocytogenes</i> 4e	Reblochon	45 minutes at 55°C then 30 minutes at -80°C	0,5	0,1
T7	Small reblochon	FLC	L229	<i>Listeria monocytogenes</i> 4e	Reblochon	45 minutes at 55°C then 30 minutes at -80°C	0,5	0,2
T8	Raw milk Camembert	FLC	L229	<i>Listeria monocytogenes</i> 4e	Reblochon	45 minutes at 55°C then 30 minutes at -80°C	0,5	0,2
U1	Caprifeuillié goat cheese raw milk	FLC	L9	<i>Listeria monocytogenes</i> 1/2a	Munster crust	45 minutes at 55°C then 30 minutes at -80°C	>1,3	0,0
U2	Munster raw milk	FLC	L9	<i>Listeria monocytogenes</i> 1/2a	Munster crust	45 minutes at 55°C then 30 minutes at -80°C	>1,3	0,1
U3	Mont d'or raw milk	FLC	L9	<i>Listeria monocytogenes</i> 1/2a	Munster crust	45 minutes at 55°C then 30 minutes at -80°C	>1,3	0,1
U4	Ossau Iraty farmer's raw milk	FLC	L32	<i>Listeria monocytogenes</i> 4b	Munster crust	45 minutes at 55°C then 30 minutes at -80°C	1,2	0,1
U5	raw milk goat cheese	FLC	L32	<i>Listeria monocytogenes</i> 4b	Munster crust	45 minutes at 55°C then 30 minutes at -80°C	1,2	0,1
U6	Beaufort raw milk	FLC	L32	<i>Listeria monocytogenes</i> 4b	Munster crust	45 minutes at 55°C then 30 minutes at -80°C	1,2	0,1
U7	raw milk	FLC	L9	<i>Listeria monocytogenes</i> 1/2a	Munster crust	45 minutes at 55°C then 30 minutes at -80°C	>1,3	0,1
U8	raw milk	FLC	L32	<i>Listeria monocytogenes</i> 4b	Munster crust	45 minutes at 55°C then 30 minutes at -80°C	1,2	0,0
W1	Raw milk Camembert	FLC	L7	<i>Listeria monocytogenes</i> 1/2a	Munster crust	30 minutes at 55°C then 30 minutes at -80°C	0,9	2,8
W2	Reblochon farmer's raw milk	FLC	L7	<i>Listeria monocytogenes</i> 1/2a	Munster crust	30 minutes at 55°C then 30 minutes at -80°C	0,9	3,5
W3	Raw milk raclette	FLC	L7	<i>Listeria monocytogenes</i> 1/2a	Munster crust	30 minutes at 55°C then 30 minutes at -80°C	0,9	1,4
W5	Farmer cheese	FLC	L40	<i>Listeria monocytogenes</i> 1/2a	Munster crust	30 minutes at 55°C then 30 minutes at -80°C	0,7	6,6
W6	Ecume de Vimereux raw milk	FLC	L40	<i>Listeria monocytogenes</i> 1/2a	Munster crust	30 minutes at 55°C then 30 minutes at -80°C	0,7	9,9
W7	Munster raw milk	FLC	L40	<i>Listeria monocytogenes</i> 1/2a	Munster crust	30 minutes at 55°C then 30 minutes at -80°C	0,7	16,5
X1	Camembertde Normandie	FLC	L37	<i>Listeria monocytogenes</i> 1/2b	Raw milk maroille	30 minutes at 55°C then 30 minutes at -80°C	0,5	5,0
X2	Raw milk cheese	FLC	L37	<i>Listeria monocytogenes</i> 1/2b	Raw milk maroille	30 minutes at 55°C then 30 minutes at -80°C	0,5	8,0
X3	Raw milk morbier	FLC	L37	<i>Listeria monocytogenes</i> 1/2b	Raw milk maroille	30 minutes at 55°C then 30 minutes at -80°C	0,5	9,0
X4	raw milk goat cheese	FLC	L37	<i>Listeria monocytogenes</i> 1/2b	Raw milk maroille	30 minutes at 55°C then 30 minutes at -80°C	0,5	7,0
X5	Raw milk Camembert	FLC	L63	<i>Listeria monocytogenes</i> 4e	Munster crust	30 minutes at 55°C then 30 minutes at -80°C	0,6	14,4
X6	raw milk goat cheese	FLC	L63	<i>Listeria monocytogenes</i> 4e	Munster crust	30 minutes at 55°C then 30 minutes at -80°C	0,6	18,0
X7	Small reblochon	FLC	L63	<i>Listeria monocytogenes</i> 4e	Munster crust	30 minutes at 55°C then 30 minutes at -80°C	0,6	21,6
X8	Raw milk raclette	FLC	L63	<i>Listeria monocytogenes</i> 4e	Munster crust	30 minutes at 55°C then 30 minutes at -80°C	0,6	25,2
Y1	raw milk	FLC	L11	<i>Listeria monocytogenes</i> 1/2a	Munster crust	45 minutes at 55°C then 30 minutes at -80°C	0,8	3,7
Y2	Brie de Meaux	FLC	L11	<i>Listeria monocytogenes</i> 1/2a	Munster crust	45 minutes at 55°C then 30 minutes at -80°C	0,8	3,2
Y3	Raw milk Camembert	FLC	L11	<i>Listeria monocytogenes</i> 1/2a	Munster crust	45 minutes at 55°C then 30 minutes at -80°C	0,8	2,7
Y5	Raw milk cheese	FLC	L51	<i>Listeria monocytogenes</i> 1/2b	Germain matured	45 minutes at 55°C then 30 minutes at -80°C	0,6	7,4

## Artificial contaminations 2017

Category	Sample number	Sample	Code strain	Strain	Origin	Protocol of seeding	Inoculation level (CFU/25g)	Global result
Meat products	1	Beef bourguignon	LIS 4.26	<i>Listeria monocytogenes 1/2a</i>	Ham	48h at 5±3 °C	2,2	+
	3	Blanquette of veal	LIS 4.26	<i>Listeria monocytogenes 1/2a</i>	Ham	48h at 5±3 °C	2,2	+
	5	Osso bucco	LIS 4.26	<i>Listeria monocytogenes 1/2a</i>	Ham	48h at 5±3 °C	2,2	+
	7	Chicken wings	LIS 4.27	<i>Listeria monocytogenes 1/2a</i>	Ground beef	48h at 5±3 °C	2,6	+
	9	Rabbit stew	LIS 4.27	<i>Listeria monocytogenes 1/2a</i>	Ground beef	48h at 5±3 °C	2,6	+
	11	Roasted pig with caramel sauce	LIS 4.27	<i>Listeria monocytogenes 1/2a</i>	Ground beef	48h at 5±3 °C	2,6	+
	13	Blanquette of turkey	LIS 4.27	<i>Listeria monocytogenes 1/2a</i>	Ground beef	48h at 5±3 °C	2,6	+
Dairy products	15	Pasteurized sheep cheese	LIS 4.59	<i>Listeria monocytogenes</i>	Goat raw milk	48h at 5±3 °C	2,4	+
	17	Neuf châtél with raw milk	LIS 4.59	<i>Listeria monocytogenes</i>	Goat raw milk	48h at 5±3 °C	2,4	+
	19	Camembert with raw milk	LIS 4.59	<i>Listeria monocytogenes</i>	Goat raw milk	48h at 5±3 °C	2,4	+
	21	Coulommiers with raw milk	LIS 4.59	<i>Listeria monocytogenes</i>	Goat raw milk	48h at 5±3 °C	2,4	+
Seafood products	23	Smoked salmon	LIS 4.83	<i>Listeria monocytogenes 1/2a</i>	Salmon tartare	48h at 5±3 °C	2,2	+
	25	Smoked trout	LIS 4.15	<i>Listeria monocytogenes 1/2a</i>	Salmon tartare	48h at 5±3 °C	2,2	+
	27	Tarama with cod eggs	LIS 4.15	<i>Listeria monocytogenes 1/2a</i>	Salmon tartare	48h at 5±3 °C	2,2	+
	29	Surimi	LIS 4.15	<i>Listeria monocytogenes 1/2a</i>	Salmon tartare	48h at 5±3 °C	2,2	+
	31	Atum rilette	LIS 4.83	<i>Listeria monocytogenes</i>	Fish with lemon sauce and rice	48h at 5±3 °C	1,8	+
	33	Salmon rilette	LIS 4.83	<i>Listeria monocytogenes</i>	Fish with lemon sauce and rice	48h at 5±3 °C	1,8	+
	35	Sardine rilette	LIS 4.83	<i>Listeria monocytogenes</i>	Fish with lemon sauce and rice	48h at 5±3 °C	1,8	+
Vegetal products	39	Banana	LIS 4.10	<i>Listeria monocytogenes 1/2a</i>	Salad	48h at 5±3 °C	2,2	+
	41	Grape	LIS 4.10	<i>Listeria monocytogenes 1/2a</i>	Salad	48h at 5±3 °C	2,2	+
	43	Tomato	LIS 4.10	<i>Listeria monocytogenes 1/2a</i>	Salad	48h at 5±3 °C	2,2	+
	45	Plums red	LIS 4.10	<i>Listeria monocytogenes 1/2a</i>	Salad	48h at 5±3 °C	2,2	+
	47	Mixed vegetables	LIS 4.35	<i>Listeria monocytogenes 1/2c</i>	Sandwich chef salad	48h at 5±3 °C	2,4	+
	49	Peas	LIS 4.35	<i>Listeria monocytogenes 1/2c</i>	Sandwich chef salad	48h at 5±3 °C	2,4	+
	51	White beans	LIS 4.35	<i>Listeria monocytogenes 1/2c</i>	Sandwich chef salad	48h at 5±3 °C	2,4	+
RTE-RTRH	53	Taboulet with chicken	LIS 4.6	<i>Listeria monocytogenes 1/2a</i>	Sandwich with ham and emmental	48h at 5±3 °C	2,2	+
	55	strabourgeoise salad	LIS 4.6	<i>Listeria monocytogenes 1/2a</i>	Sandwich with ham and emmental	48h at 5±3 °C	2,2	+
	57	Piémontaise with ham	LIS 4.6	<i>Listeria monocytogenes 1/2a</i>	Sandwich with ham and emmental	48h at 5±3 °C	2,2	+
	59	Sandwich with salmon and chives	LIS 4.6	<i>Listeria monocytogenes 1/2a</i>	Sandwich with ham and emmental	48h at 5±3 °C	2,6	+
	61	Sandwich with ham and Emmental	LIS 4.24	<i>Listeria monocytogenes 1/2a</i>	Dairy meal	48h at 5±3 °C	2,6	+
	63	Sandwich with tuna and crudities	LIS 4.24	<i>Listeria monocytogenes 1/2a</i>	Dairy meal	48h at 5±3 °C	2,6	+
	65	Sandwich with ham and butter	LIS 4.24	<i>Listeria monocytogenes 1/2a</i>	Dairy meal	48h at 5±3 °C	2,6	+
	67	Sandwich with rosette and butter	LIS 4.24	<i>Listeria monocytogenes 1/2a</i>	Dairy meal	48h at 5±3 °C	2,6	+
	69	Raspberries tart	LIS 4.46	<i>Listeria monocytogenes 3a</i>	Goat cheese sandwich	48h at 5±3 °C	1,8	+
	71	Mille feuille	LIS 4.7	<i>Listeria monocytogenes 1/2a</i>	Ham and emmental sandwich	48h at 5±3 °C	2,8	+
	73	Savarin with rhum and pastry cream	LIS 4.7	<i>Listeria monocytogenes 1/2a</i>	Ham and emmental sandwich	48h at 5±3 °C	2,8	+
Environmental samples	75	Processed water 1	LIS 4.2	<i>Listeria monocytogenes</i>	Environment	48h at 5±3 °C	2,2	+
	77	Processed water 2	LIS 4.2	<i>Listeria monocytogenes</i>	Environment	48h at 5±3 °C	2,2	+
	79	Processed water 3	LIS 4.2	<i>Listeria monocytogenes</i>	Environment	48h at 5±3 °C	2,2	+
	81	Processed water 4	LIS 4.2	<i>Listeria monocytogenes</i>	Environment	48h at 5±3 °C	2,6	+
	83	Surface sample 1	LIS 4.50	<i>Listeria monocytogenes 4b</i>	Surface control on salmon	48h at 5±3 °C	2,6	+
	85	Surface sample 2	LIS 4.50	<i>Listeria monocytogenes 4b</i>	Surface control on salmon	48h at 5±3 °C	2,6	+

## **APPENDIX 3**

### **Sensitivity Raw results**

Key:

Neg. = Negative

Pos. = Positive

L. = Listeria

NA= Negative agreement

PA= Positive agreement

PD= Positive deviation

ND= Negative deviation

## Meat products

Study	Category	Type	Code	Matrices	Artificial contamination		ISO 11290-1		VIDAS LMX method					Comparison
					Type	Level	CONFIRMATION	Final result	Detection			Confirmation	Final result	
							Identification		RFV	VT	Test result	Identification		
2009	Meat products	1-	A14	Steaks, chopped	No	/	<i>L. welshimeri</i>	Neg.	5	0,00	-	/	Neg.	NA
2009	Meat products	1-	A15	Ground beef	No	/	/	Neg.	3	0,00	-	/	Neg.	NA
2009	Meat products	1-	B2	Ground beef	No	/	<i>L. welshimeri</i>	Neg.	4	0,00	-	/	Neg.	NA
2009	Meat products	1-	B7	Steaks, chopped 15% fat	No	/	<i>L. welshimeri</i>	Neg.	3	0,00	-	/	Neg.	NA
2009	Meat products	1-	B8	Steaks, chopped 15% fat	No	/	<i>L. welshimeri</i>	Neg.	3	0,00	-	/	Neg.	NA
2009	Meat products	1-	C5	Frozen chopped steak	No	/	<i>L. welshimeri</i>	Neg.	1	0,00	-	/	Neg.	NA
2009	Meat products	1-	C20	Traditional minced meat	No	/	/	Neg.	3	0,00	-	/	Neg.	NA
2009	Meat products	1-	D6	Ground beef halal	No	/	/	Neg.	4	0,00	-	/	Neg.	NA
2009	Meat products	1-	D10	Frozen Burgers	No	/	/	Neg.	4	0,00	-	/	Neg.	NA
2009	Meat products	1-	F4	Chicken breasts	No	/	/	Neg.	7	0,00	-	/	Neg.	NA
2009	Meat products	1-	J2	Chicken fillets	No	/	<i>L. welshimeri</i>	Neg.	22	0,00	-	/	Neg.	NA
2009	Meat products	2-	A4	Chicken marinated in Thai style	No	/	<i>L. innocua</i>	Neg.	2	0,00	-	/	Neg.	NA
2009	Meat products	2-	A8	Chicken with Cajun spices	No	/	/	Neg.	2	0,00	-	/	Neg.	NA
2009	Meat products	2-	C2	Chicken with mozzarella	No	/	/	Neg.	2	0,00	-	/	Neg.	NA
2009	Meat products	2-	G1	Mexican spicy pork chops	No	/	/	Neg.	4	0,00	-	/	Neg.	NA
2009	Meat products	2-	E5	Black pudding	No	/	/	Neg.	4	0,00	-	/	Neg.	NA
2009	Meat products	2-	H16	Pie	No	/	/	Neg.	7	0,00	-	/	Neg.	NA
2009	Meat products	2-	H17	Pate of head parsley	No	/	/	Neg.	3	0,00	-	/	Neg.	NA
2017	Meat products	2-	2	Beef bourguignon	No	/	/	Neg.	-1	0,00	-	/	Neg.	NA
2017	Meat products	2-	4	Blanquette of veal	No	/	/	Neg.	4	0,00	-	/	Neg.	NA
2017	Meat products	2-	6	Osso bucco	No	/	/	Neg.	3	0,00	-	/	Neg.	NA
2009	Meat products	3-	B22	Smoked bacon	No	/	/	Neg.	2	0,00	-	/	Neg.	NA
2009	Meat products	3-	E18	chipolatas	No	/	<i>L. welshimeri</i>	Neg.	5	0,00	-	/	Neg.	NA
2009	Meat products	3-	F5	Sausages with kebab	No	/	/	Neg.	57	0,01	-	/	Neg.	NA
2009	Meat products	3-	F9	Pork Sausages	No	/	/	Neg.	17	0,00	-	/	Neg.	NA
2009	Meat products	3-	D19	Rosette	No	/	/	Neg.	3	0,00	-	/	Neg.	NA
2009	Meat products	3-	H15	Smoked ham	No	/	/	Neg.	6	0,00	-	/	Neg.	NA
2009	Meat products	3-	H18	Bacon	No	/	/	Neg.	5	0,00	-	/	Neg.	NA
2017	Meat products	3-	52	Ham	No	/	/	Neg.	1	0,00	-	/	Neg.	NA
2017	Meat products	3-	54	Prime ham	No	/	/	Neg.	5	0,00	-	/	Neg.	NA
2017	Meat products	3-	56	Raw ham	No	/	/	Neg.	2	0,00	-	/	Neg.	NA
2009	Meat products	1+	B1	Ground beef	No	/	/	Neg.	6 685	2,13	+	<i>L.mono</i>	Pos.	PD
2009	Meat products	1+	B3	Ground beef	No	/	/	Neg.	10 137	3,24	+	<i>L.mono</i>	Pos.	PD
2009	Meat products	1+	J4	Turkey escalope	No	/	/	Neg.	7 164	2,21	+	<i>L.mono</i>	Pos.	PD
2009	Meat products	1+	A16	Ground meat of horse	No	/	<i>L..mono</i>	Pos.	10 206	3,26	+	<i>L.mono</i>	Pos.	PA
2009	Meat products	1+	D20	chicken thigh	No	/	<i>L..mono L.welshimeri</i>	Pos.	9 852	3,14	+	<i>L.mono</i>	Pos.	PA
2009	Meat products	1+	H5	Frozen chopped steaks	No	/	<i>L..mono L.welshimeri</i>	Pos.	12 396	3,82	+	<i>L.mono</i>	Pos.	PA
2009	Meat products	1+	J3	Duck leg	No	/	<i>L..mono</i>	Pos.	8 085	2,49	+	<i>L.mono</i>	Pos.	PA

Study	Category	Type	Code	Matrices	Artificial contamination		ISO 11290-1		VIDAS LMX method					Comparison
					Type	Level	CONFIRMATION	Final result	Detection			Confirmation	Final result	
									RFV	VT	Test result	Identification		
2009	Meat products	1+	J5	Duck leg	No	/	<i>L.mono</i>	Pos.	10 737	3,31	+	<i>L.mono</i>	Pos.	PA
2009	Meat products	1+	K11	Steaks, chopped, pure beef	No	/	<i>L.mono L.innocua</i>	Pos.	11 983	3,70	+	<i>L.mono</i>	Pos.	PA
2009	Meat products	2+	C16	Frozen beef balls	No	/	<i>L.mono L.innocua</i>	Pos.	113	0,03	-	<i>L.innocua</i> <i>Isol. LX: L.innocua</i>	Neg.	ND
2009	Meat products	2+	A18	Thai Chicken	No	/	<i>L.mono L.innocua</i>	Pos.	6 405	2,04	+	<i>L.mono</i>	Pos.	PA
2009	Meat products	2+	J1	Marinated chicken escalope	No	/	<i>L.mono</i>	Pos.	11 077	3,42	+	<i>L.mono</i>	Pos.	PA
2017	Meat products	2+	1	Beef bourguignon	se	2,2	<i>L.mono</i>	Pos.	10 912	2,77	+	<i>L.m</i>	Pos.	PA
2017	Meat products	2+	3	Blanquette of veal	se	2,2	<i>L.mono</i>	Pos.	10 610	2,69	+	<i>L.m</i>	Pos.	PA
2017	Meat products	2+	5	Osso bucco	se	2,2	<i>L.mono</i>	Pos.	10 915	2,77	+	<i>L.m</i>	Pos.	PA
2017	Meat products	2+	7	Chicken wings	se	2,6	<i>L.mono</i>	Pos.	10 804	2,74	+	<i>L.m</i>	Pos.	PA
2017	Meat products	2+	9	Rabbit stew	se	2,6	<i>L.mono</i>	Pos.	10 824	2,75	+	<i>L.m</i>	Pos.	PA
2017	Meat products	2+	11	Roasted pig with caramel sauce	se	2,6	<i>L.mono</i>	Pos.	10 682	2,71	+	<i>L.m</i>	Pos.	PA
2017	Meat products	2+	13	Blanquette of turkey	se	2,6	<i>L.mono</i>	Pos.	10 838	2,75	+	<i>L.m</i>	Pos.	PA
2009	Meat products	3+	B20	merguez	No	/	<i>L.mono L.welshimeri</i>	Pos.	9 345	2,98	+	<i>L.mono</i>	Pos.	PA
2009	Meat products	3+	B21	chipolatas	No	/	<i>L.mono L.welshimeri</i>	Pos.	10 543	3,37	+	<i>L.mono</i>	Pos.	PA
2009	Meat products	3+	C7	merguez	No	/	<i>L.mono L.innocua</i>	Pos.	449	0,14	+	<i>L.mono</i>	Pos.	PA
2009	Meat products	3+	C9	Smoked bacon	No	/	<i>L.mono L.welshimeri</i>	Pos.	10 307	3,29	+	<i>L.mono</i>	Pos.	PA
2009	Meat products	3+	C19	chipolatas	No	/	<i>L.mono</i>	Pos.	219	0,07	+	<i>L.mono</i>	Pos.	PA
2009	Meat products	3+	D14	Smoked bacon	No	/	<i>L.mono L.welshimeri</i>	Pos.	222	0,07	+	<i>L.mono</i>	Pos.	PA
2009	Meat products	3+	D15	Smoked bacon	No	/	<i>L.mono</i>	Pos.	9 986	3,19	+	<i>L.mono</i>	Pos.	PA
2009	Meat products	3+	C8	Dry sausage	No	/	<i>L.mono</i>	Pos.	5	0,00	-	<i>L.mono</i>	Neg.	ND
2009	Meat products	3+	D16	Dry sausage	No	/	<i>L.mono</i>	Pos.	97	0,03	-	<i>L.mono</i> <i>Isol. LX: L.mono</i>	Neg.	ND FN <sub>alt</sub>
2009	Meat products	3+	B19	Bacon	No	/	<i>L.mono L.welshimeri</i>	Pos.	2 791	0,89	+	<i>L.mono</i>	Pos.	PA
2009	Meat products	3+	C4	White Ham	No	/	<i>L.mono</i>	Pos.	11 035	3,52	+	<i>L.mono</i>	Pos.	PA
2009	Meat products	3+	C17	White Ham	No	/	<i>L.mono</i>	Pos.	10 874	3,47	+	<i>L.mono</i>	Pos.	PA
2009	Meat products	3+	D2	Ham pieces	No	/	<i>L.mono L.welshimeri</i>	Pos.	1 327	0,42	+	<i>L.mono</i>	Pos.	PA

## Meat products : storage for 72 hours at 2-8°C

Study	Category	Type	Code	Matrices	Artificial contamination		ISO 11290-1		VIDAS LMX method					Comparison
					Type	Level	CONFIRMATION	Final result	Detection			Confirmation	Final result	
							Identification		RFV	VT	Test result	Identification		
2009	Meat products	1+	B1	Ground beef	No	/	/	Neg.	11 765	3,76	+	<i>L. monocytogenes</i>	Pos.	PD
2009	Meat products	1+	B3	Ground beef	No	/	/	Neg.	10 390	3,32	+	<i>L. monocytogenes</i>	Pos.	PD
2009	Meat products	1+	J4	Turkey escalope	No	/	/	Neg.	8 850	2,73	+	<i>L. monocytogenes</i>	Pos.	PD
2009	Meat products	1+	A16	Ground meat of horse	No	/	<i>L. monocytogenes</i>	Pos.	10 104	3,23	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Meat products	1+	D20	chicken thigh	No	/	<i>L. monocytogenes</i> <i>L. welshimeri</i>	Pos.	3 391	1,06	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Meat products	1+	H5	Frozen chopped steaks	No	/	<i>L. monocytogenes</i> <i>L. welshimeri</i>	Pos.	10 605	3,27	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Meat products	1+	J3	Duck leg	No	/	<i>L. monocytogenes</i>	Pos.	854	0,26	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Meat products	1+	J5	Duck leg	No	/	<i>L. monocytogenes</i>	Pos.	10 522	3,24	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Meat products	1+	K11	Steaks, chopped, pure beef	No	/	<i>L. monocytogenes</i> <i>L. innocua</i>	Pos.	11 355	3,54	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Meat products	2+	C16	Frozen beef balls	No	/	<i>L. monocytogenes</i> <i>L. innocua</i>	Pos.	128	0,04	-	<i>L. innocua</i> <i>Isol. LX: L.innocua</i>	Neg.	ND
2009	Meat products	2+	A18	Thai Chicken	No	/	<i>L. monocytogenes</i> <i>L. innocua</i>	Pos.	11 409	3,64	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Meat products	2+	J1	Marinated chicken escalope	No	/	<i>L. monocytogenes</i>	Pos.	9 837	3,03	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Meat products	2+	1	Beef bourguignon	se	2,2	<i>L. monocytogenes</i>	Pos.	10 670	2,71	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Meat products	2+	3	Blanquette of veal	se	2,2	<i>L. monocytogenes</i>	Pos.	10 784	2,74	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Meat products	2+	5	Osso bucco	se	2,2	<i>L. monocytogenes</i>	Pos.	11 083	2,82	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Meat products	2+	7	Chicken wings	se	2,6	<i>L. monocytogenes</i>	Pos.	10 663	2,71	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Meat products	2+	9	Rabbit stew	se	2,6	<i>L. monocytogenes</i>	Pos.	10 751	2,73	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Meat products	2+	11	Roasted pig with caramel sauce	se	2,6	<i>L. monocytogenes</i>	Pos.	10 675	2,71	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Meat products	2+	13	Blanquette of turkey	se	2,6	<i>L. monocytogenes</i>	Pos.	10 195	2,59	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Meat products	3+	B20	merguez	No	/	<i>L. monocytogenes</i> <i>L. welshimeri</i>	Pos.	9 940	3,17	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Meat products	3+	B21	chipolatas	No	/	<i>L. monocytogenes</i> <i>L. welshimeri</i>	Pos.	10 114	3,23	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Meat products	3+	C7	merguez	No	/	<i>L. monocytogenes</i> <i>L. innocua</i>	Pos.	1 666	0,53	+	<i>L. innocua</i> <i>Isol. LX: L.innocua</i>	Neg.	PA FP <sub>alt</sub>
2009	Meat products	3+	C9	Smoked bacon	No	/	<i>L. monocytogenes</i> <i>L. welshimeri</i>	Pos.	10 037	3,20	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Meat products	3+	C19	chipolatas	No	/	<i>L. monocytogenes</i>	Pos.	10 834	3,46	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Meat products	3+	D14	Smoked bacon	No	/	<i>L. monocytogenes</i> <i>L. welshimeri</i>	Pos.	3 562	1,11	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Meat products	3+	D15	Smoked bacon	No	/	<i>L. monocytogenes</i>	Pos.	10 008	3,12	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Meat products	3+	C8	Dry sausage	No	/	<i>L. monocytogenes</i>	Pos.	108	0,03	-	<i>L. monocytogenes</i>	Neg.	ND FN <sub>alt</sub>
2009	Meat products	3+	D16	Dry sausage	No	/	<i>L. monocytogenes</i>	Pos.	5 967	1,86	+	<i>L. monocytogenes</i>	Pos.	PA

Study	Category	Type	Code	Matrices	Artificial contamination		ISO 11290-1		VIDAS LMX method					Comparison
					Type	Level	CONFIRMATION	Final result	Detection			Confirmation	Final result	
							Identification		RFV	VT	Test result	Identification		
2009	Meat products	3+	B19	Bacon	No	/	<i>L. monocytogenes</i> <i>L. welshimeri</i>	Pos.	9 206	2,94	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Meat products	3+	C4	White Ham	No	/	<i>L. monocytogenes</i>	Pos.	10 661	3,40	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Meat products	3+	C17	White Ham	No	/	<i>L. monocytogenes</i>	Pos.	10 265	3,28	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Meat products	3+	D2	Ham pieces	No	/	<i>L. monocytogenes</i> <i>L. welshimeri</i>	Pos.	2 821	0,88	+	<i>L. monocytogenes</i> <i>Isol. LX: L.monocytogenes</i>	Pos.	PA

## Dairy products

Study	Category	Type	Code	Matrices	Artificial contamination		ISO 11290-1		VIDAS LMX method				Comparison	
					Type	Level	CONFIRMATION	Final result	Detection			Confirmation		Final result
							Identification		RFV	VT	Test result	Identification		
2009	Dairy products	1-	S1	squeegee	No	/	/	Abs.	1	0,00	-	/	Abs.	NA
2009	Dairy products	1-	P8	Pasteurized Couloumiers	No	/	/	Abs.	4	0,00	-	/	Abs.	NA
2009	Dairy products	1-	AF26	Young Cantal	No	/	<i>L.innocua</i>	Abs.	4	0,00	-	/	Abs.	NA
2009	Dairy products	1-	AG21	Ccow cheese (Rond du vinage)	No	/	/	Abs.	7	0,00	-	/	Abs.	NA
2009	Dairy products	1-	N13	Raw milk	No	/	/	Abs.	5	0,00	-	/	Abs.	NA
2009	Dairy products	1-	Q6	Infant Milk Powder	No	/	/	Abs.	7	0,00	-	/	Abs.	NA
2017	Dairy products	1-	8	UHT milk	No	/	/	Abs.	1	0,00	-	/	Abs.	NA
2017	Dairy products	1-	10	Emmental	No	/	/	Abs.	1	0,00	-	/	Abs.	NA
2017	Dairy products	1-	12	Camembert	No	/	/	Abs.	2	0,00	-	/	Abs.	NA
2017	Dairy products	1-	14	Pasteurized milk	No	/	/	Abs.	2	0,00	-	/	Abs.	NA
2009	Dairy products	2-	E9	Petit Bethmale with goat cheese	No	/	/	Abs.	10	0,00	-	/	Abs.	NA
2009	Dairy products	2-	E10	Goat cheese	No	/	/	Abs.	9	0,00	-	/	Abs.	NA
2009	Dairy products	2-	N10	Goat cheese	No	/	/	Abs.	8	0,00	-	/	Abs.	NA
2009	Dairy products	2-	P5	Goat cheese	No	/	/	Abs.	5	0,00	-	/	Abs.	NA
2009	Dairy products	2-	P6	Goat cheese (Chabichou of poitou)	No	/	/	Abs.	6	0,00	-	/	Abs.	NA
2009	Dairy products	2-	P7	Pasteurized goat's cheese	No	/	/	Abs.	2	0,00	-	/	Abs.	NA
2009	Dairy products	2-	AB3	Goat cheese	No	/	/	Abs.	2	0,00	-	/	Abs.	NA
2009	Dairy products	2-	AE1	Ewe cheese (Ricotta)	No	/	/	Abs.	2	0,00	-	/	Abs.	NA
2009	Dairy products	2-	AE4	Goat cheese	No	/	/	Abs.	3	0,00	-	/	Abs.	NA
2009	Dairy products	2-	AB3	Goat cheese	No	/	/	Abs.	2	0,00	-	/	Abs.	NA
2009	Dairy products	2-	AE1	Ewe cheese (Ricotta)	No	/	/	Abs.	2	0,00	-	/	Abs.	NA
2009	Dairy products	2-	AE4	Goat cheese	No	/	/	Abs.	3	0,00	-	/	Abs.	NA
2009	Dairy products	2-	AE5	Ewe cheese (Ossau Iraty)	No	/	/	Abs.	3	0,00	-	/	Abs.	NA
2010	Dairy products	3-	T10	Cow cheese from raw milk	No	/	/	Abs.	122	0,03	-	/	Abs.	NA
2010	Dairy products	3-	T13	Cow cheese from raw milk	No	/	/	Abs.	3	0,00	-	/	Abs.	NA
2010	Dairy products	3-	R14	Cow cheese from raw milk	No	/	/		13	0,00	-	/	Abs.	NA
2010	Dairy products	3-	R13	Cow cheese (Cantal fruity)	No	/	/	Abs.	5	0,00	-	/	Abs.	NA
2010	Dairy products	3-	T9	Cow cheese (Parmigiano)	No	/	/	Abs.	4	0,00	-	/	Abs.	NA
2010	Dairy products	3-	R12	Raw milk cheese	No	/	/	Abs.	7	0,00	-	/	Abs.	NA
2010	Dairy products	3-	V1	Cow cheese (Camembert)	sp	Mix	/	Abs.	4	0,00	-	/	Abs.	NA
2010	Dairy products	3-	V3	Cow cheese (Munster)	sp	Mix	/	Abs.	2	0,00	-	/	Abs.	NA
2010	Dairy products	3-	V4	Cow cheese (Brie de Meaux)	sp	Mix	/	Abs.	2	0,00	-	/	Abs.	NA
2010	Dairy products	3-	U6	Cow cheese (Beaufort)	sp	0,05	/	Abs.	6	0,00	-	/	Abs.	NA
2010	Dairy products	3-	U2	Cow cheese (Munster)	sp	0,06	/	Abs.	4	0,00	-	/	Abs.	NA
2010	Dairy products	3-	T6	Cow cheese (munster)	sp	0,1	/	Abs.	7	0,00	-	/	Abs.	NA
2010	Dairy products	3-	T8	Cow cheese (Camembert)	sp	0,2	/	Abs.	9	0,00	-	/	Abs.	NA

Study	Category	Type	Code	Matrices	Artificial contamination		ISO 11290-1		VIDAS LMX method					Comparison
					Type	Level	CONFIRMATION	Final result	Detection			Confirmation	Final result	
							Identification		RFV	VT	Test result	Identification		
2010	Dairy products	3-	T7	Cow cheese (Small reblochon)	sp	0,2	/	Abs.	5	0,00	-	/	Abs.	NA
2010	Dairy products	3-	T2	Cow cheese (Brie de Meaux)	sp	0,55	/	Abs.	5	0,00	-	/	Abs.	NA
2010	Dairy products	3-	T1	Cow cheese (Reblochon)	sp	0,74	/	Abs.	5	0,00	-	/	Abs.	NA
2010	Dairy products	3-	T4	Cow cheese (Camembert)	sp	0,93	/	Abs.	5	0,00	-	/	Abs.	NA
2010	Dairy products	3-	Y3	Cow cheese (Camembert)	sp	2,7	/	Abs.	4	0,00	-	/	Abs.	NA
2010	Dairy products	3-	W1	Cow cheese (Camembert)	sp	2,76	/	Abs.	7	0,00	-	/	Abs.	NA
2010	Dairy products	3-	W6	Cow cheese (Ecume du Vimereux)	sp	9,9	/	Abs.	8	0,00	-	/	Abs.	NA
2010	Dairy products	3-	R3	Ewe Cheese parsley	No	/	/	Abs.	23	0,00	-	/	Abs.	NA
2010	Dairy products	3-	R8	Ewe Cheese	No	/	/	Abs.	6	0,00	-	/	Abs.	NA
2010	Dairy products	3-	U1	Goat cheese	sp	0,04	/	Abs.	5	0,00	-	/	Abs.	NA
2010	Dairy products	3-	U5	Goat cheese	sp	0,07	/	Abs.	6	0,00	-	/	Abs.	NA
2010	Dairy products	3-	U4	Ewe Cheese (Ossau Iraty)	sp	0,08	/	Abs.	4	0,00	-	/	Abs.	NA
2010	Dairy products	3-	T5	Goat cheese	sp	0,15	/	Abs.	5	0,00	-	/	Abs.	NA
2010	Dairy products	3-	T3	Goat cheese (Crostin Chavignol)	sp	1,1	/	Abs.	11	0,00	-	/	Abs.	NA
2017	Dairy products	3-	16	Neuf ch�tel with raw milk	No	/	/	A	-1	0,00	-	/	A	NA
2017	Dairy products	3-	18	Camembert with raw milk	No	/	/	A	0	0,00	-	/	A	NA
2010	Dairy products	3-	R11	Cow cheese (Epoisses)raw milk	No	/	/	Abs.	10	0,00	-	/	Abs.	NA
2009	Dairy products	1+	N1	Cow cheese (Rollot of Picardy)	sp	3,4	<i>L. monocytogenes</i>	Pos.	44	0,01	-	<i>L. monocytogenes</i>	Abs.	ND FN <sub>ait</sub>
2009	Dairy products	1+	A11	Cow cheese (Cantal)	sp	5,2	<i>L. monocytogenes</i>	Pos.	6 064	1,54	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Dairy products	1+	AH16	Cow cheese (Maroilles)	sp	6,1	<i>L. monocytogenes</i>	Pos.	9 642	2,46	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Dairy products	1+	N2	Cow cheese (Epoisses)	sp	6,8	<i>L. monocytogenes</i>	Pos.	3 175	0,98	+	<i>L. monocytogenes</i> <i>isol Lx: L. monocytogenes</i>	Pos.	PA
2009	Dairy products	1+	AH15	Cow cheese (Trou du cru)	sp	6,8	<i>L. monocytogenes</i>	Pos.	9 258	2,36	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Dairy products	1+	O8	Cow cheese (Chaource)	sp	9,6	<i>L. monocytogenes</i>	Pos.	2 115	0,65	+	<i>L. monocytogenes</i> <i>isol Lx: L. monocytogenes</i>	Pos.	PA
2009	Dairy products	1+	A18	Cow cheese (Munster)	sp	10,4	<i>L. monocytogenes</i>	Pos.	789	0,20	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Dairy products	1+	N4	Raw milk	sp	5,1	<i>L. monocytogenes</i>	Pos.	8 398	2,60	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Dairy products	1+	Q15	Raw milk	sp	6,0	<i>L. monocytogenes</i>	Pos.	5	0,00	-	/	Abs.	ND
2009	Dairy products	1+	Q16	Raw milk	sp	7,5	<i>L. monocytogenes</i>	Pos.	625	0,21	+	<i>L. monocytogenes</i> <i>isol Lx: L. monocytogenes</i>	Pos.	PA
2009	Dairy products	1+	AG9	Raw milk	sp	7,8	<i>L. monocytogenes</i>	Pos.	3 011	0,74	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Dairy products	1+	N3	Raw milk	sp	8,5	<i>L. monocytogenes</i>	Pos.	9 935	3,07	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Dairy products	2+	AF2	Goat cheese	sp	1,4	<i>L. monocytogenes</i>	Pos.	11 618	3,09	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Dairy products	2+	AF10	Goat cheese	sp	2,6	<i>L. monocytogenes</i>	Pos.	709	0,18	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Dairy products	2+	AH14	Goat cheese	sp	4,6	<i>L. monocytogenes</i>	Pos.	9 578	2,44	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Dairy products	2+	O7	Goat cheese	sp	4,8	<i>L. monocytogenes</i>	Pos.	10 405	3,22	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Dairy products	2+	AG2	Blue cheese	sp	5,2	<i>L. monocytogenes</i>	Pos.	3 429	0,84	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Dairy products	2+	AF7	Goat cheese	sp	6,3	<i>L. monocytogenes</i>	Pos.	8 695	2,31	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Dairy products	2+	A14	Bleu de Bresse	sp	6,4	<i>L. monocytogenes</i>	Pos.	12 033	3,07	+	<i>L. monocytogenes</i>	Pos.	PA

Study	Category	Type	Code	Matrices	Artificial contamination		ISO 11290-1		VIDAS LMX method					Comparison
					Type	Level	CONFIRMATION	Final result	Detection			Confirmation	Final result	
							Identification		RFV	VT	Test result	Identification		
2009	Dairy products	2+	O5	Goat cheese	sp	7,2	<i>L. monocytogenes</i>	Pos.	11 570	3,58	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Dairy products	2+	AG5	Blue cheese (bleu de Bresse)	sp	10,4	<i>L. monocytogenes</i>	Pos.	10 609	2,61	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Dairy products	2+	15	Pasteurized sheep cheese	se	2,4	<i>L. monocytogenes</i>	Pos.	10 748	2,73	+	<i>L. monocytogenes</i>	Pos.	PA
2010	Dairy products	3+	V2	Cow Organic Cheese (St Félicien)	No	/	<i>L. monocytogenes</i>	Pos.	30	0,00	-	<i>L. monocytogenes</i>	Pos.	ND FN <sub>ait</sub>
2010	Dairy products	3+	X6	Raw milk cow cheese	No	/	<i>L. monocytogenes</i>	Pos.	10 845	3,00	+	<i>L. monocytogenes</i>	Pos.	PA
2010	Dairy products	3+	T11	Raw milk cow cheese	No	/	<i>L. monocytogenes</i>	Pos.	10 546	2,91	+	<i>L. monocytogenes</i>	Pos.	PA
2010	Dairy products	3+	U3	Raw milk cow cheese	No	/	<i>L. monocytogenes</i>	Pos.	10 416	2,88	+	<i>L. monocytogenes</i>	Pos.	PA
2010	Dairy products	3+	X1	Raw milk cow cheese	No	/	<i>L. monocytogenes</i>	Pos.	10 488	2,90	+	<i>L. monocytogenes</i>	Pos.	PA
2010	Dairy products	3+	X5	Raw milk cow cheese	No	/	<i>L. monocytogenes</i> <i>L. innocua</i>	Pos.	10 558	2,92	+	<i>L. monocytogenes</i>	Pos.	PA
2010	Dairy products	3+	R1	Cow cheese (Reblochon)	No	/	<i>L. monocytogenes</i>	Pos.	11 305	3,12	+	<i>L. monocytogenes</i>	Pos.	PA
2010	Dairy products	3+	R10	Ewe cheese parsley	No	/	<i>L. monocytogenes</i>	Pos.	3 860	1,06	+	<i>L. monocytogenes</i>	Pos.	PA
2010	Dairy products	3+	W3	Ewe cheese parsley	No	/	<i>L. monocytogenes</i>	Pos.	313	0,08	+	<i>L. monocytogenes</i>	Pos.	PA
2010	Dairy products	3+	U8	Cow cheese	sp	0,0	/	Abs.	10 325	2,91	+	<i>L. monocytogenes</i>	Pos.	PD
2010	Dairy products	3+	R4	Cow cheese (Mont dor)	sp	0,1	<i>L. monocytogenes</i>	Pos.	5	0,00	-	/	Abs.	ND
2010	Dairy products	3+	U7	Cow cheese	sp	0,1	<i>L. monocytogenes</i> <i>L. innocua</i>	Pos.	10 765	3,04	+	<i>L. monocytogenes</i>	Pos.	PA
2010	Dairy products	3+	R2	Cow cheese (Raclette)	sp	1,4	<i>L. monocytogenes</i>	Pos.	318	0,10	+	<i>L. monocytogenes</i>	Pos.	PA
2010	Dairy products	3+	X3	Goat cheese (Sainte Maure)	sp	2,1	<i>L. monocytogenes</i>	Pos.	2 268	0,73	+	<i>L. monocytogenes</i>	Pos.	PA
2010	Dairy products	3+	X4	Cow cheese (Brie de Meaux)	sp	3,2	<i>L. monocytogenes</i>	Pos.	1 362	0,40	+	<i>L. monocytogenes</i>	Pos.	PA
2010	Dairy products	3+	Y2	Cow cheese (Saint Nectaire)	sp	3,2	/	Abs.	5 321	1,50	+	<i>L. monocytogenes</i>	Pos.	PD
2010	Dairy products	3+	W7	Cow cheese (Reblochon)	sp	3,5	<i>L. monocytogenes</i>	Pos.	33	0,01	-	<i>L. monocytogenes</i>	Pos.	ND FN <sub>ait</sub>
2010	Dairy products	3+	Y1	Cow cheese	sp	3,7	<i>L. monocytogenes</i>	Pos.	10 481	3,14	+	<i>L. monocytogenes</i>	Pos.	PA
2010	Dairy products	3+	T12	Cow cheese (Camembert)	sp	5,0	/	Abs.	189	0,06	+	<i>L. monocytogenes</i>	Pos.	PD
2010	Dairy products	3+	W5	Cow cheese	sp	6,6	/	Abs.	7 941	2,56	+	<i>L. monocytogenes</i>	Pos.	PD
2010	Dairy products	3+	X8	Goat cheese	sp	7,0	<i>L. monocytogenes</i>	Pos.	10 659	3,44	+	<i>L. monocytogenes</i>	Pos.	PA
2010	Dairy products	3+	Y5	Cow cheese	sp	7,4	<i>L. monocytogenes</i>	Pos.	2 085	0,62	+	<i>L. monocytogenes</i>	Pos.	PA
2010	Dairy products	3+	X2	Cow cheese	sp	8,0	<i>L. monocytogenes</i>	Pos.	10 365	3,34	+	<i>L. monocytogenes</i>	Pos.	PA
2010	Dairy products	3+	W2	Cow cheese (Raclette) with raw milk	sp	8,8	<i>L. monocytogenes</i>	Pos.	3 056	0,91	+	<i>L. monocytogenes</i>	Pos.	PA
2010	Dairy products	3+	R5	Cow cheese (Morbier)	sp	9,0	<i>L. monocytogenes</i>	Pos.	10 484	3,38	+	<i>L. monocytogenes</i>	Pos.	PA
2010	Dairy products	3+	X7	Goat cheese	sp	13,2	<i>L. monocytogenes</i>	Pos.	10 237	3,30	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Dairy products	3+	17	Neuf châtél with raw milk	se	2,4	<i>L. monocytogenes</i>	Pos.	10 454	2,66	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Dairy products	3+	19	Camembert with raw milk	se	2,4	<i>L. monocytogenes</i>	Pos.	10 481	2,66	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Dairy products	3+	21	Coulommiers with raw milk	se	2,4	<i>L. monocytogenes</i>	Pos.	10 672	2,71	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Dairy products	3+	23	St Nectaire with raw milk	se	2,4	<i>L. monocytogenes</i>	Pos.	10 578	2,86	+	<i>L. monocytogenes</i>	Pos.	PA

## Dairy products : storage for 72 hours at 2-8°C

Study	Category	Type	Code	Matrices	Artificial contamination		ISO 11290-1		VIDAS LMX method				Comparison	
					Type	Level	CONFIRMATION	Final result	Detection			Confirmation		Final result
							Identification		RFV	VT	Test result	Identification		
2009	Dairy products	1+	N1	Cow cheese (Rollot of Picardy)	sp	3,4	<i>L. monocytogenes</i>	Pos.	181	0,05	+	<i>L. monocytogenes</i> <i>Isol. LX: L. monocytogenes</i>	Pos.	PA
2009	Dairy products	1+	A11	Cow cheese (Cantal)	sp	5,2	<i>L. monocytogenes</i>	Pos.						
2009	Dairy products	1+	AH16	Cow cheese (Maroilles)	sp	6,1	<i>L. monocytogenes</i>	Pos.						
2009	Dairy products	1+	N2	Cow cheese (Epoisses)	sp	6,8	<i>L. monocytogenes</i>	Pos.	11 754	3,64	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Dairy products	1+	AH15	Cow cheese (Trou du cru)	sp	6,8	<i>L. monocytogenes</i>	Pos.						
2009	Dairy products	1+	O8	Cow cheese (Chaource)	sp	9,6	<i>L. monocytogenes</i>	Pos.	9 765	3,02	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Dairy products	1+	A18	Cow cheese (Munster)	sp	10,4	<i>L. monocytogenes</i>	Pos.						
2009	Dairy products	1+	N4	Raw milk	sp	5,1	<i>L. monocytogenes</i>	Pos.	10 153	3,14	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Dairy products	1+	Q15	Raw milk	sp	6,0	<i>L. monocytogenes</i>	Pos.	3	0	-	/	Neg.	ND
2009	Dairy products	1+	Q16	Raw milk	sp	7,5	<i>L. monocytogenes</i>	Pos.	9571	3,33	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Dairy products	1+	AG9	Raw milk	sp	7,8	<i>L. monocytogenes</i>	Pos.						
2009	Dairy products	1+	N3	Raw milk	sp	8,5	<i>L. monocytogenes</i>	Pos.	9 975	3,08	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Dairy products	2+	AF2	Goat cheese	sp	1,4	<i>L. monocytogenes</i>	Pos.						
2009	Dairy products	2+	AF10	Goat cheese	sp	2,6	<i>L. monocytogenes</i>	Pos.						
2009	Dairy products	2+	AH14	Goat cheese	sp	4,6	<i>L. monocytogenes</i>	Pos.						
2009	Dairy products	2+	O7	Goat cheese	sp	4,8	<i>L. monocytogenes</i>	Pos.	10 018	3,10	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Dairy products	2+	AG2	Blue cheese	sp	5,2	<i>L. monocytogenes</i>	Pos.						
2009	Dairy products	2+	AF7	Goat cheese	sp	6,3	<i>L. monocytogenes</i>	Pos.						
2009	Dairy products	2+	A14	Bleu de Bresse	sp	6,4	<i>L. monocytogenes</i>	Pos.						
2009	Dairy products	2+	O5	Goat cheese	sp	7,2	<i>L. monocytogenes</i>	Pos.	11 462	3,54	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Dairy products	2+	AG5	Blue cheese (bleu de Bresse)	sp	10,4	<i>L. monocytogenes</i>	Pos.						
2017	Dairy products	2+	15	Pasteurized sheep cheese	se	2,4	<i>L. monocytogenes</i>	Pos.	11 056	2,81	+	<i>L. monocytogenes</i>	Pos.	PA
2010	Dairy products	3+	V2	Cow Organic Cheese (St Félicien)	No	/	<i>L. monocytogenes</i>	Pos.	80	0,02	-	<i>L. monocytogenes</i>	Neg.	ND FN <sub>alt</sub>
2010	Dairy products	3+	X6	Raw milk cow cheese	No	/	<i>L. monocytogenes</i>	Pos.	10 498	2,90	+	<i>L. monocytogenes</i>	Pos.	PA
2010	Dairy products	3+	T11	Raw milk cow cheese	No	/	<i>L. monocytogenes</i>	Pos.	10 648	2,94	+	<i>L. monocytogenes</i>	Pos.	PA
2010	Dairy products	3+	U3	Raw milk cow cheese	No	/	<i>L. monocytogenes</i>	Pos.	10 292	2,84	+	<i>L. monocytogenes</i>	Pos.	PA
2010	Dairy products	3+	X1	Raw milk cow cheese	No	/	<i>L. monocytogenes</i>	Pos.	10 400	2,87	+	<i>L. monocytogenes</i>	Pos.	PA
2010	Dairy products	3+	X5	Raw milk cow cheese	No	/	<i>L. monocytogenes</i> <i>L. innocua</i>	Pos.	10 395	2,87	+	<i>L. monocytogenes</i> <i>L. innocua</i>	Pos.	PA
2010	Dairy products	3+	R1	Cow cheese (Reblochon)	No	/	<i>L. monocytogenes</i>	Pos.	11 224	3,10	+	<i>L. monocytogenes</i>	Pos.	PA
2010	Dairy products	3+	R10	Ewe cheese parsley	No	/	<i>L. monocytogenes</i>	Pos.	11 506	3,18	+	<i>L. monocytogenes</i>	Pos.	PA
2010	Dairy products	3+	W3	Ewe cheese parsley	No	/	<i>L. monocytogenes</i>	Pos.	3 456	0,97	+	<i>L. monocytogenes</i>	Pos.	PA
2010	Dairy products	3+	U8	Cow cheese	sp	0,0	/	Neg.	11 861	3,34	+	<i>L. monocytogenes</i>	Pos.	PD
2010	Dairy products	3+	R4	Cow cheese (Mont dor)	sp	0,1	<i>L. monocytogenes</i>	Pos.	7	0,00	-	/	Neg.	ND
2010	Dairy products	3+	U7	Cow cheese	sp	0,1	<i>L. monocytogenes</i> <i>L. innocua</i>	Pos.	11 235	3,17	+	<i>L. monocytogenes</i>	Pos.	PA
2010	Dairy products	3+	R2	Cow cheese (Raclette)	sp	1,4	<i>L. monocytogenes</i>	Pos.	440	0,14	+	<i>L. monocytogenes</i>	Pos.	PA

Study	Category	Type	Code	Matrices	Artificial contamination		ISO 11290-1		VIDAS LMX method					Comparison
					Type	Level	CONFIRMATION	Final result	Detection			Confirmation	Final result	
							Identification		RFV	VT	Test result	Identification		
2010	Dairy products	3+	X3	Goat cheese (Sainte Maure)	sp	2,1	<i>L. monocytogenes</i>	Pos.	2 919	0,94	+	<i>L. monocytogenes</i>	Pos.	PA
2010	Dairy products	3+	X4	Cow cheese (Brie de Meaux)	sp	3,2	<i>L. monocytogenes</i>	Pos.	1 148	0,33	+	<i>L. monocytogenes</i>	Pos.	PA
2010	Dairy products	3+	Y2	Cow cheese (Saint Nectaire)	sp	3,2	/	Neg.	6 225	1,75	+	<i>L. monocytogenes</i>	Pos.	PD
2010	Dairy products	3+	W7	Cow cheese (Reblochon)	sp	3,5	<i>L. monocytogenes</i>	Pos.	38	0,01	-	<i>L. monocytogenes</i>	Pos.	ND FN <sub>ait</sub>
2010	Dairy products	3+	Y1	Cow cheese	sp	3,7	<i>L. monocytogenes</i>	Pos.	11 317	3,28	+	<i>L. monocytogenes</i>	Pos.	PA
2010	Dairy products	3+	T12	Cow cheese (Camembert)	sp	5,0	/	Neg.	129	0,03	-	<i>L. monocytogenes</i>	Neg.	PA
2010	Dairy products	3+	W5	Cow cheese	sp	6,6	/	Neg.	8 900	2,87	+	<i>L. monocytogenes</i>	Pos.	PD
2010	Dairy products	3+	X8	Goat cheese	sp	7,0	<i>L. monocytogenes</i>	Pos.	11 538	3,35	+	<i>L. monocytogenes</i>	Pos.	PA
2010	Dairy products	3+	Y5	Cow cheese	sp	7,4	<i>L. monocytogenes</i>	Pos.	2 151	0,62	+	<i>L. monocytogenes</i>	Pos.	PA
2010	Dairy products	3+	X2	Cow cheese	sp	8,0	<i>L. monocytogenes</i>	Pos.	11 207	3,25	+	<i>L. monocytogenes</i>	Pos.	PA
2010	Dairy products	3+	W2	Cow cheese (Raclette) with raw milk	sp	8,8	<i>L. monocytogenes</i>	Pos.	2 948	0,85	+	<i>L. monocytogenes</i>	Pos.	PA
2010	Dairy products	3+	R5	Cow cheese (Morbier)	sp	9,0	<i>L. monocytogenes</i>	Pos.	11 357	3,29	+	<i>L. monocytogenes</i>	Pos.	PA
2010	Dairy products	3+	X7	Goat cheese	sp	13,2	<i>L. monocytogenes</i>	Pos.	10 874	3,51	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Dairy products	3+	17	Neuf ch�tel with raw milk	se	2,4	<i>L. monocytogenes</i>	Pos.	10 146	2,58	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Dairy products	3+	19	Camembert with raw milk	se	2,4	<i>L. monocytogenes</i>	Pos.	10 134	2,57	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Dairy products	3+	21	Coulommiers with raw milk	se	2,4	<i>L. monocytogenes</i>	Pos.	10 654	2,71	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Dairy products	3+	23	St Nectaire with raw milk	se	2,4	<i>L. monocytogenes</i>	Pos.	10 778	2,81	+	<i>L. monocytogenes</i>	Pos.	PA

## Seafood products

Study	Category	Type	Code	Matrices	Artificial contamination		ISO 11290-1		VIDAS LMX method					Comparison
					Type	Level	CONFIRMATION	Final result	Detection			Confirmation	Final result	
							Identification		RFV	VT	Test result	Identification		
2009	Seafood products	1-	D9	shrimps	No	/	/	Neg.	2	0,00	-	/	Neg.	NA
2009	Seafood products	1-	H14	shrimps	No	/	/	Neg.	3	0,00	-	/	Neg.	NA
2009	Seafood products	1-	E4	Seafood	No	/	/	Neg.	32	0,01	-	/	Neg.	NA
2017	Seafood products	1-	20	Salmon fillet	/	/	/	Neg.	-2	0,00	-	/	Neg.	NA
2017	Seafood products	1-	22	Hake fillet	/	/	/	Neg.	3	0,00	-	/	Neg.	NA
2017	Seafood products	1-	24	Tuna fillet	/	/	/	Neg.	1	0,00	-	/	Neg.	NA
2017	Seafood products	1-	26	Cod fillet	/	/	/	Neg.	1	0,00	-	/	Neg.	NA
2017	Seafood products	1-	28	Trout fillet	/	/	/	Neg.	2	0,00	-	/	Neg.	NA
2017	Seafood products	1-	30	Haddock fillet	/	/	/	Neg.	3	0,00	-	/	Neg.	NA
2017	Seafood products	1-	32	Monlfish fillet	/	/	/	Neg.	0	0,00	-	/	Neg.	NA
2009	Seafood products	2-	E2	Pieces of smoked salmon	No	/	/	Neg.	5	0,00	-	/	Neg.	NA
2009	Seafood products	2-	E14	Smoked Atlantic Salmon	No	/	/	Neg.	3	0,00	-	/	Neg.	NA
2009	Seafood products	2-	E16	Pieces of smoked salmon	No	/	/	Neg.	6	0,00	-	/	Neg.	NA
2009	Seafood products	2-	E17	Smoked Atlantic Salmon	No	/	/	Neg.	4	0,00	-	/	Neg.	NA
2009	Seafood products	2-	F3	Pieces of smoked salmon	No	/	/	Neg.	6	0,00	-	/	Neg.	NA
2009	Seafood products	2-	F14	smoked haddock	No	/	/	Neg.	5	0,00	-	/	Neg.	NA
2009	Seafood products	2-	G5	Smoked salmon Scotland	No	/	/	Neg.	4	0,00	-	/	Neg.	NA
2009	Seafood products	2-	G6	Smoked trout	No	/	/	Neg.	8	0,00	-	/	Neg.	NA
2009	Seafood products	2-	G8	Mini slices of smoked salmon	No	/	/	Neg.	5	0,00	-	/	Neg.	NA
2009	Seafood products	2-	G12	Smoked Halibut	No	/	/	Neg.	7	0,00	-	/	Neg.	NA
2009	Seafood products	2-	I6	Trout smoked calvados-basil	No	/	<i>L. innocua</i>	Neg.	6	0,00	-	/	Neg.	NA
2009	Seafood products	2-	I7	Trout smoked in beech wood	No	/	<i>L. innocua</i>	Neg.	5	0,00	-	/	Neg.	NA
2009	Seafood products	2-	J6	Pickled smoked herring	No	/	/	Neg.	5	0,00	-	/	Neg.	NA
2009	Seafood products	2-	J8	Smoked salmon Norway	No	/	/	Neg.	2	0,00	-	/	Neg.	NA
2009	Seafood products	2-	J9	Pieces of smoked salmon	No	/	/	Neg.	5	0,00	-	/	Neg.	NA
2009	Seafood products	2-	J10	Smoked salmon Norway	No	/	/	Neg.	4	0,00	-	/	Neg.	NA
2009	Seafood products	2-	L13	Smoked Salmon Atlantic	No	/	/	Neg.	5	0,00	-	/	Neg.	NA
2009	Seafood products	2-	L14	Tartar Smoked salmon	No	/	<i>L. innocua</i>	Neg.	3	0,00	-	/	Neg.	NA
2009	Seafood products	2-	L15	Herring fillets	No	/	/	Neg.	4	0,00	-	/	Neg.	NA
2009	Seafood products	2-	L16	Smoked salmon Norway	No	/	/	Neg.	6	0,00	-	/	Neg.	NA
2009	Seafood products	3-	F10	Fish Paupiettes	No	/	/	Neg.	4	0,00	-	/	Neg.	NA

Study	Category	Type	Code	Matrices	Artificial contamination		ISO 11290-1		VIDAS LMX method					Comparison
					Type	Level	CONFIRMATION	Final result	Detection			Confirmation	Final result	
							Identification		RFV	VT	Test result	Identification		
2009	Seafood products	3-	C6	Frozen cooked mussels	No	/	/	Neg.	5	0,00	-	/	Neg.	NA
2009	Seafood products	3-	E6	Basket of Scallops	No	/	/	Neg.	3	0,00	-	/	Neg.	NA
2009	Seafood products	3-	F1	Salmon Paupiettes	No	/	/	Neg.	5	0,00	-	/	Neg.	NA
2009	Seafood products	3-	F2	Salmon Paupiettes	No	/	/	Neg.	6	0,00	-	/	Neg.	NA
2009	Seafood products	3-	F15	Salad Crab	No	/	/	Neg.	4	0,00	-	/	Neg.	NA
2009	Seafood products	3-	F16	Salad Crab	No	/	/	Neg.	3	0,00	-	/	Neg.	NA
2017	Seafood products	3-	34	Tarama with cod eggs	/	/	/	Neg.	-2	0,00	-	/	Neg.	NA
2017	Seafood products	3-	36	Surimi	/	/	/	Neg.	1	0,00	-	/	Neg.	NA
2017	Seafood products	3-	52	Salmon rilette	/	/	/	Neg.	3	0,00	-	/	Neg.	NA
2009	Seafood products	1+	A7	Fish trio	No	/	<i>L. monocytogenes</i>	Pos.	2	0,00	-	/	Neg.	ND
2009	Seafood products	1+	A17	Pangasus filets	No	/	<i>L. monocytogenes</i>	Pos.	10 421	3,33	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Seafood products	1+	B9	Fish Duo	No	/	<i>L. monocytogenes</i>	Pos.	10 009	3,19	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Seafood products	1+	B10	Seafood	No	/	<i>L. monocytogenes</i>	Pos.	10 533	3,36	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Seafood products	1+	C1	shrimps	No	/	<i>L. monocytogenes</i>	Pos.	614	0,19	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Seafood products	1+	C12	shrimps	No	/	<i>L. monocytogenes</i>	Pos.	5 011	1,60	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Seafood products	1+	G9	Saithe fillet	No	/	<i>L. monocytogenes</i>	Pos.	11 467	3,58	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Seafood products	1+	H8	Pangasus filets	No	/	<i>L. monocytogenes</i>	Pos.	10 135	3,13	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Seafood products	1+	H9	Pangasus filets	No	/	<i>L. monocytogenes</i>	Pos.	10 193	3,14	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Seafood products	1+	H10	Fillets of whiting	No	/	<i>L. monocytogenes L. innocua</i>	Pos.	10 313	3,18	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Seafood products	1+	H11	shrimps	No	/	<i>L. monocytogenes L. innocua</i>	Pos.	10 605	3,27	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Seafood products	1+	H12	shrimps	No	/	<i>L. monocytogenes L. innocua</i>	Pos.	10 536	3,25	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Seafood products	1+	H13	shrimps	No	/	<i>L. monocytogenes L. innocua</i>	Pos.	9 746	3,00	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Seafood products	2+	J7	Smoked eels	No	/	<i>L. monocytogenes</i>	Pos.	7	0,00	-	/	Neg.	ND
2009	Seafood products	2+	A19	Mini slices of smoked trout	No	/	<i>L. monocytogenes</i>	Pos.	10 643	3,40	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Seafood products	2+	G11	Smoked Salmon Atlantic	No	/	<i>L. monocytogenes</i>	Pos.	11 143	3,48	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Seafood products	2+	I5	Smoked Atlantic Salmon	No	/	<i>L. monocytogenes</i>	Pos.	11 440	3,53	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Seafood products	2+	I8	Smoked Salmon Atlantic	No	/	<i>L. monocytogenes</i>	Pos.	6 738	2,08	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Seafood products	2+	AB2	Organic SmokedSalmon	No	/	<i>L.monocytogenes</i>	Pos.	10 385	2,59	+	<i>L.monocytogenes</i>	Pos.	PA
2009	Seafood products	2+	AB6	kippers	No	/	<i>L.monocytogenes L.innocua</i>	Pos.	10 217	2,55	+	<i>L.monocytogenes L.innocua</i>	Pos.	PA
2009	Seafood products	2+	AF21	Smoked salmon	No	/	<i>L.monocytogenes</i>	Pos.	9 787	2,60	+	<i>L.monocytogenes</i>	Pos.	PA
2017	Seafood products	2+	23	Smoked salmon	se	2,2	<i>L. monocytogenes</i>	Pos.	10 539	2,68	+	<i>L.monocytogenes</i>	Pos.	PA
2017	Seafood products	2+	25	Smoked trout	se	2,2	<i>L. monocytogenes</i>	Pos.	10 629	2,70	+	<i>L.monocytogenes</i>	Pos.	PA
2009	Seafood products	3+	F8	Smoked salmon roll and celery	No	/	<i>L. monocytogenes</i>	Pos.	11 136	3,48	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Seafood products	3+	E15	Breaded fish	No	/	<i>L. monocytogenes</i>	Pos.	11 306	3,53	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Seafood products	3+	G4	Fish marinated in basil	No	/	<i>L. monocytogenes</i>	Pos.	494	0,15	+	<i>L. monocytogenes</i>	Pos.	PA

Study	Category	Type	Code	Matrices	Artificial contamination		ISO 11290-1		VIDAS LMX method					Comparison
					Type	Level	CONFIRMATION	Final result	Detection			Confirmation	Final result	
							Identification		RFV	VT	Test result	Identification		
2009	Seafood products	3+	H6	Cuttlefish rust	No	/	<i>L. monocytogenes</i> <i>L. innocua</i>	Pos.	10 122	3,12	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Seafood products	3+	H7	Cuttlefish rust	No	/	<i>L. monocytogenes</i> <i>L. innocua</i>	Pos.	10 038	3,10	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Seafood products	3+	27	Tarama with cod eggs	se	2,2	<i>L. monocytogenes</i>	Pos.	7 888	2,00	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Seafood products	3+	29	Surimi	se	2,2	<i>L. monocytogenes</i>	Pos.	10 605	2,69	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Seafood products	3+	31	Atum rilette	se	1,8	<i>L. monocytogenes</i>	Pos.	3 051	0,77	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Seafood products	3+	33	Salmon rilette	se	1,8	<i>L. monocytogenes</i>	Pos.	10 516	2,67	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Seafood products	3+	35	Sardine rilette	se	1,8	<i>L. monocytogenes</i>	Pos.	10 658	2,71	+	<i>L. monocytogenes</i>	Pos.	PA

## Seafood products : storage for 72 hours at 2-8°C

Study	Category	Type	Code	Matrices	Artificial contamination		ISO 11290-1		VIDAS LMX method				Comparison	
					Type	Level	CONFIRMATION	Final result	Detection			Confirmation		Final result
							Identification		RFV	VT	Test result	Identification		
2009	Seafood products	1+	A7	Fish trio	No	/	<i>L. monocytogenes</i>	+	4	0,00	-	/	Neg.	ND
2009	Seafood products	1+	A17	Pangasus fillets	No	/	<i>L. monocytogenes</i>	+	10 356	3,31	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Seafood products	1+	B9	Fish Duo	No	/	<i>L. monocytogenes</i>	+	9 976	3,18	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Seafood products	1+	B10	Seafood	No	/	<i>L. monocytogenes</i>	+	11 577	3,70	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Seafood products	1+	C1	shrimps	No	/	<i>L. monocytogenes</i>	+	10 874	3,47	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Seafood products	1+	C12	shrimps	No	/	<i>L. monocytogenes</i>	+	99	0,03	-		Neg.	ND
2009	Seafood products	1+	G9	Saithe fillet	No	/	<i>L. monocytogenes</i>	+	11 988	3,93	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Seafood products	1+	H8	Pangasus fillets	No	/	<i>L. monocytogenes</i>	+	10 518	3,24	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Seafood products	1+	H9	Pangasus fillets	No	/	<i>L. monocytogenes</i>	+	10 644	3,28	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Seafood products	1+	H10	Fillets of whiting	No	/	<i>L. monocytogenes</i> <i>L. innocua</i>	+	10 603	3,27	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Seafood products	1+	H11	shrimps	No	/	<i>L. monocytogenes</i> <i>L. innocua</i>	+	11 702	3,61	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Seafood products	1+	H12	shrimps	No	/	<i>L. monocytogenes</i> <i>L. innocua</i>	+	9 103	2,81	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Seafood products	1+	H13	shrimps	No	/	<i>L. monocytogenes</i> <i>L. innocua</i>	+	9 264	2,86	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Seafood products	2+	J7	Smoked eels	No	/	<i>L. monocytogenes</i>	+	5	0,00	-	/	Neg.	ND
2009	Seafood products	2+	A19	Mini slices of smoked trout	No	/	<i>L. monocytogenes</i>	+	10 509	3,35	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Seafood products	2+	G11	Smoked Salmon Atlantic	No	/	<i>L. monocytogenes</i>	+	11 365	3,73	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Seafood products	2+	I5	Smoked Atlantic Salmon	No	/	<i>L. monocytogenes</i>	+	11 411	3,52	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Seafood products	2+	I8	Smoked Salmon Atlantic	No	/	<i>L. monocytogenes</i>	+	11 623	3,58	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Seafood products	2+	AB2	Organic Smoked Salmon	No	/	<i>L. monocytogenes</i>	+						
2009	Seafood products	2+	AB6	kippers	No	/	<i>L. monocytogenes</i> <i>L. innocua</i>	+						
2009	Seafood products	2+	AF21	Smoked salmon	No	/	<i>L. monocytogenes</i>	+						
2017	Seafood products	2+	23	Smoked salmon	se	2,2	<i>L. monocytogenes</i>	+	10 338	2,63	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Seafood products	2+	25	Smoked trout	se	2,2	<i>L. monocytogenes</i>	+	10 276	2,61	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Seafood products	3+	F8	Smoked salmon roll and celery	No	/	<i>L. monocytogenes</i>	+	10 295	3,21	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Seafood products	3+	E15	Breaded fish	No	/	<i>L. monocytogenes</i>	+	10 202	3,19	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Seafood products	3+	G4	Fish marinated in basil	No	/	<i>L. monocytogenes</i>	+	4 785	1,57	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Seafood products	3+	H6	Cuttlefish rust	No	/	<i>L. monocytogenes</i> <i>L. innocua</i>	+	10 903	3,36	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Seafood products	3+	H7	Cuttlefish rust	No	/	<i>L. monocytogenes</i> <i>L. innocua</i>	+	10 368	3,20	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Seafood products	3+	27	Tarama with cod eggs	se	2,2	<i>L. monocytogenes</i>	+	10 138	2,57	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Seafood products	3+	29	Surimi	se	2,2	<i>L. monocytogenes</i>	+	8 218	2,09	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Seafood products	3+	31	Atum rilette	se	1,8	<i>L. monocytogenes</i>	+	10 333	2,62	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Seafood products	3+	33	Salmon rilette	se	1,8	<i>L. monocytogenes</i>	+	10 558	2,68	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Seafood products	3+	35	Sardine rilette	se	1,8	<i>L. monocytogenes</i>	+	10 715	2,72	+	<i>L. monocytogenes</i>	Pos.	PA

## Vegetal products

Study	Category	Type	Code	Matrices	Artificial contamination		ISO 11290-1		VIDAS LMX method				Comparison	
					Type	Level	CONFIRMATION	Final result	Detection			Confirmation		Final result
							Identification		RFV	VT	Test result	Identification		
2009	Vegetal products	1-	E1	Potatoes	No	/	/	Neg.	3	0,00	-	/	Neg.	NA
2009	Vegetal products	1-	I10	Frozen spinach branch	No	/	/	Neg.	4	0,00	-	/	Neg.	NA
2009	Vegetal products	1-	J12	Frozen Broccoli	No	/	/	Neg.	6	0,00	-	/	Neg.	NA
2009	Vegetal products	1-	K8	Frozen peas	No	/	<i>L. innocua</i>	Neg.	8	0,00	-	/	Neg.	NA
2009	Vegetal products	1-	O14	Potatoes	No	/	/	Neg.	3	0,00	-	/	Neg.	NA
2009	Vegetal products	1-	G13	leeks	No	/	/	Neg.	4	0,00	-	/	Neg.	NA
2009	Vegetal products	1-	J13	Fresh green beans	No	/	/	Neg.	4	0,00	-	/	Neg.	NA
2009	Vegetal products	1-	K3	Vacuum raw courgettes	No	/	/	Neg.	5	0,00	-	/	Neg.	NA
2009	Vegetal products	1-	M3	Green beans	sp	0,3	/	Neg.	5	0,00	-	/	Neg.	NA
2009	Vegetal products	1-	I1	courgettes	sp	1,7	/	Neg.	5	0,00	-	/	Neg.	NA
2009	Vegetal products	1-	J14	Frozen sliced onions	sp	3,4	/	Neg.	7	0,00	-	/	Neg.	NA
2009	Vegetal products	1-	J18	Carrots, uncooked	sp	20,4	/	Neg.	4	0,00	-	/	Neg.	NA
2009	Vegetal products	2-	A3	Browned potatoes	No	/	/	Neg.	3	0,00	-	/	Neg.	NA
2009	Vegetal products	2-	E13	Frozen fries	No	/	/	Neg.	4	0,00	-	/	Neg.	NA
2009	Vegetal products	2-	F18	Frozen fries	No	/	/	Neg.	6	0,00	-	/	Neg.	NA
2009	Vegetal products	2-	J11	Browned frozen potatoes	No	/	/	Neg.	6	0,00	-	/	Neg.	NA
2009	Vegetal products	2-	K4	Frozen fries	No	/	/	Neg.	5	0,00	-	/	Neg.	NA
2009	Vegetal products	2-	K10	Frozen fries	No	/	/	Neg.	6	0,00	-	/	Neg.	NA
2009	Vegetal products	2-	B15	Grated carrots	No	/	/	Neg.	4	0,00	-	/	Neg.	NA
2009	Vegetal products	2-	L8	Mixed salad	No	/	/	Neg.	4	0,00	-	/	Neg.	NA
2009	Vegetal products	2-	M2	maches	sp	0,6	/	Neg.	6	0,00	-	/	Neg.	NA
2009	Vegetal products	2-	M1	Mixed salad	sp	0,7	/	Neg.	11	0,00	-	/	Neg.	NA
2009	Vegetal products	2-	I4	Carrots	sp	1,7	/	Neg.	3	0,00	-	/	Neg.	NA
2009	Vegetal products	2-	L4	Grated carrots	sp	4,9	/	Neg.	5	0,00	-	/	Neg.	NA
2009	Vegetal products	2-	J16	Carrots	sp	27,2	/	Neg.	5	0,00	-	/	Neg.	NA
2009	Vegetal products	3-	F11	Rice and vegetables from the sun	No	/	/	Neg.	4	0,00	-	/	Neg.	NA
2009	Vegetal products	3-	F17	Vegetable gardener	No	/	/	Neg.	11	0,00	-	/	Neg.	NA
2009	Vegetal products	3-	A5	Rice 3 Colors and Veggie Mash	No	/	<i>L. innocua</i>	Neg.	3	0,00	-	/	Neg.	NA
2009	Vegetal products	3-	B4	Chickpea Salad	No	/	/	Neg.	6	0,00	-	/	Neg.	NA
2009	Vegetal products	3-	E7	Grated carrots	No	/	/	Neg.	4	0,00	-	/	Neg.	NA
2009	Vegetal products	3-	E8	Red beets	No	/	/	Neg.	5	0,00	-	/	Neg.	NA
2009	Vegetal products	3-	L6	Pates 2 colors	No	/	/	Neg.	4	0,00	-	/	Neg.	NA
2009	Vegetal products	3-	L7	Wild Rice and Sun Vegetables	No	/	/	Neg.	3	0,00	-	/	Neg.	NA
2009	Vegetal products	3-	M4	Red cabbage vinaigrette	sp	0,4	/	Neg.	4	0,00	-	/	Neg.	NA
2009	Vegetal products	3-	I3	Carrot puree	sp	2,1	/	Neg.	4	0,00	-	/	Neg.	NA
2009	Vegetal products	3-	I2	Vegetable gardener	sp	2,5	/	Neg.	4	0,00	-	/	Neg.	NA
2009	Vegetal products	1+	K9	Frozen chopped spinach	No	/	<i>L. monocytogenes</i> <i>L. innocua</i>	Pos.	10 502	3,24	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Vegetal products	1+	O16	Frozen chopped spinach	No	/	<i>L. monocytogenes</i> <i>L. innocua</i>	Pos.	11 725	3,63	+	<i>L. monocytogenes</i>	Pos.	PA

Study	Category	Type	Code	Matrices	Artificial contamination		ISO 11290-1		VIDAS LMX method				Comparison	
					Type	Level	CONFIRMATION	Final result	Detection			Confirmation		Final result
							Identification		RFV	VT	Test result	Identification		
2009	Vegetal products	1+	M5	Raw cutted carrots	No	/	/	Neg.	6 425	1,98	+	<i>L. monocytogenes</i>	Pos.	PD
2009	Vegetal products	1+	J15	Mix 3 peppers under vacuum	sp	4,3	/	Neg.	10 873	3,35	+	<i>L. monocytogenes</i>	Pos.	PD
2009	Vegetal products	1+	J19	Fresh green beans under vacuum	sp	6,8	<i>L. monocytogenes</i>	Pos.	10 958	3,38	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Vegetal products	1+	J17	Raw courgettes under vacuum	sp	13,6	<i>L. monocytogenes</i>	Pos.	9 150	2,82	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Vegetal products	1+	39	Banana	se	2,2	<i>L. monocytogenes</i>	Pos.	10 660	2,71	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Vegetal products	1+	41	Grape	se	2,2	<i>L. monocytogenes</i>	Pos.	10 715	2,72	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Vegetal products	1+	43	Tomato	se	2,2	<i>L. monocytogenes</i>	Pos.	10 832	2,75	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Vegetal products	1+	45	Plums red	se	2,2	<i>L. monocytogenes</i>	Pos.	10 699	2,72	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Vegetal products	2+	D1	Frozen fries	No	/	<i>L. grayi</i>	Neg.	10 207	3,26	+	<i>L. monocytogenes</i>	Pos.	PD
2009	Vegetal products	2+	I9	Frozen fries	No	/	/	Neg.	10 922	3,37	+	<i>L. monocytogenes</i>	Pos.	PD
2009	Vegetal products	2+	K5	Traditional Frozen fries	No	/	/	Neg.	1 034	0,31	+	<i>L. monocytogenes</i>	Pos.	PD
2009	Vegetal products	2+	O15	Frozen fries	No	/	<i>L. seeligeri</i>	Neg.	10 858	3,36	+	<i>L. monocytogenes</i>	Pos.	PD
2009	Vegetal products	2+	A1	Frozen fries	No	/	<i>L. monocytogenes</i>	Pos.	10 848	3,46	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Vegetal products	2+	A2	Frozen traditional fries	No	/	<i>L. monocytogenes</i>	Pos.	1 397	0,44	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Vegetal products	2+	C18	Frozen fries	No	/	<i>L. monocytogenes</i>	Pos.	10 933	3,49	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Vegetal products	2+	O2	Spring vegetable poppy	sp	4,8	<i>L. monocytogenes</i>	Pos.	9 965	3,08	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Vegetal products	2+	O4	Salad (Oak leaves)	sp	8,0	<i>L. monocytogenes</i>	Pos.	10 483	3,24	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Vegetal products	2+	O3	Iceberg lettuce	sp	9,6	<i>L. monocytogenes</i>	Pos.	10 188	3,15	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Vegetal products	2+	N6	Mixture raw vegetables	sp	13,2	<i>L. monocytogenes</i>	Pos.	11 860	3,67	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Vegetal products	3+	A6	Saffron Rice and Vegetables	No	/	<i>L. monocytogenes</i>	Pos.	4	0,00	-	/	Neg.	ND
2009	Vegetal products	3+	L3	Green Beans with Garlic	sp	1,9	<i>L. monocytogenes</i>	Pos.	11 852	3,70	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Vegetal products	3+	L2	Couscous vegetables	sp	3,9	<i>L. monocytogenes</i>	Pos.	11 459	3,57	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Vegetal products	3+	J20	Carrots and cabbage	sp	5,1	<i>L. monocytogenes</i>	Pos.	11 353	3,56	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Vegetal products	3+	O1	Carrots + celery	sp	6,4	<i>L. monocytogenes</i>	Pos.	11 214	3,47	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Vegetal products	3+	N5	Cucumber vinaigrette	sp	8,8	<i>L. monocytogenes</i>	Pos.	2 381	0,73	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Vegetal products	3+	J21	Cucumber vinaigrette	sp	17,0	/	Neg.	787	0,24	+	<i>L. monocytogenes</i>	Pos.	PD
2017	Vegetal products	3+	47	Mixed vegetables	se	2,4	<i>L. monocytogenes</i>	Pos.	10 749	2,73	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Vegetal products	3+	49	Peas	se	2,4	<i>L. monocytogenes</i>	Pos.	10 532	2,67	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Vegetal products	3+	51	White beans	se	2,4	<i>L. monocytogenes</i>	Pos.	10 578	2,69	+	<i>L. monocytogenes</i>	Pos.	PA

## Vegetal products : storage for 72 hours at 2-8°C

Study	Category	Type	Code	Matrices	Artificial contamination		ISO 11290-1		VIDAS LMX method				Comparison	
					Type	Level	CONFIRMATION	Final result	Detection			Confirmation		Final result
							Identification		RFV	VT	Test result	Identification		
2009	Vegetal products	1+	K9	Frozen chopped spinach	No	/	<i>L. monocytogenes</i> <i>L. innocua</i>	Pos.	9 858	3,07	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Vegetal products	1+	O16	Frozen chopped spinach	No	/	<i>L. monocytogenes</i> <i>L. innocua</i>	Pos.	11 190	3,46	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Vegetal products	1+	M5	Raw cutted carrots	No	/	/	Neg.	10 080	3,12	+	<i>L. monocytogenes</i>	Pos.	PD
2009	Vegetal products	1+	J15	Mix 3 peppers under vacuum	sp	4,3	/	Neg.	10 402	3,21	+	<i>L. monocytogenes</i>	Pos.	PD
2009	Vegetal products	1+	J19	Fresh green beans under vacuum	sp	6,8	<i>L. monocytogenes</i>	Pos.	10 251	3,16	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Vegetal products	1+	J17	Raw courgettes under vacuum	sp	13,6	<i>L. monocytogenes</i>	Pos.	10 773	3,32	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Vegetal products	1+	39	Banana	se	2,2	<i>L. monocytogenes</i>	Pos.	9 594	2,44	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Vegetal products	1+	41	Grape	se	2,2	<i>L. monocytogenes</i>	Pos.	10 144	2,58	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Vegetal products	1+	43	Tomato	se	2,2	<i>L. monocytogenes</i>	Pos.	10 638	2,70	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Vegetal products	1+	45	Plums red	se	2,2	<i>L. monocytogenes</i>	Pos.	10 159	2,58	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Vegetal products	2+	D1	Frozen fries	No	/	<i>L. grayi</i>	Neg.	10 482	3,27	+	<i>L. monocytogenes</i>	Pos.	PD
2009	Vegetal products	2+	I9	Frozen fries	No	/	/	Neg.	8 866	2,73	+	<i>L. monocytogenes</i>	Pos.	PD
2009	Vegetal products	2+	K5	Traditional Frozen fries	No	/	/	Neg.	10 787	3,36	+	<i>L. monocytogenes</i>	Pos.	PD
2009	Vegetal products	2+	O15	Frozen fries	No	/	<i>L. seeligeri</i>	Neg.	9 794	3,03	+	<i>L. monocytogenes</i>	Pos.	PD
2009	Vegetal products	2+	A1	Frozen fries	No	/	<i>L. monocytogenes</i>	Pos.	10 178	3,25	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Vegetal products	2+	A2	Frozen traditional fries	No	/	<i>L. monocytogenes</i>	Pos.	11 703	3,74	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Vegetal products	2+	C18	Frozen fries	No	/	<i>L. monocytogenes</i>	Pos.	11 213	3,58	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Vegetal products	2+	O2	Spring vegetable poppy	sp	4,8	<i>L. monocytogenes</i>	Pos.	10291	3,18	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Vegetal products	2+	O4	Salad (Oak leaves)	sp	8,0	<i>L. monocytogenes</i>	Pos.	10685	3,3	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Vegetal products	2+	O3	Iceberg lettuce	sp	9,6	<i>L. monocytogenes</i>	Pos.	10612	3,28	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Vegetal products	2+	N6	Mixture raw vegetables	sp	13,2	<i>L. monocytogenes</i>	Pos.	10 125	3,13	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Vegetal products	3+	A6	Saffron Rice and Vegetables	No	/	<i>L. monocytogenes</i>	Pos.	4	0,00	-	/	Neg.	ND
2009	Vegetal products	3+	L3	Green Beans with Garlic	sp	1,9	<i>L. monocytogenes</i>	Pos.	10 169	3,17	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Vegetal products	3+	L2	Couscous vegetables	sp	3,9	<i>L. monocytogenes</i>	Pos.	10 016	3,12	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Vegetal products	3+	J20	Carrots and cabbage	sp	5,1	<i>L. monocytogenes</i>	Pos.	10 281	3,17	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Vegetal products	3+	O1	Carrots + celery	sp	6,4	<i>L. monocytogenes</i>	Pos.	10526	3,25	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Vegetal products	3+	N5	Cucumber vinaigrette	sp	8,8	<i>L. monocytogenes</i>	Pos.	10099	3,12	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Vegetal products	3+	J21	Cucumber vinaigrette	sp	17,0	/	Neg.	10 010	3,09	+	<i>L. monocytogenes</i>	Pos.	PD
2017	Vegetal products	3+	47	Mixed vegetables	se	2,4	<i>L. monocytogenes</i>	Pos.	10 650	2,70	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Vegetal products	3+	49	Peas	se	2,4	<i>L. monocytogenes</i>	Pos.	10 601	2,69	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Vegetal products	3+	51	White beans	se	2,4	<i>L. monocytogenes</i>	Pos.	10 619	2,70	+	<i>L. monocytogenes</i>	Pos.	PA

## Composite foods

Study	Category	Type	Code	Matrices	Artificial contamination		ISO 11290-1		VIDAS LMX method					Comparison
					Type	Level	CONFIRMATION	Final result	Detection			Confirmation	Final result	
							Identification		RFV	VT	Test result	Identification		
2009	Composite food	1-	A12	Chicken tabouleh	No	/	/	Neg.	3	0,00	-	/	Neg.	NA
2009	Composite food	1-	D7	Sandwich kebab	No	/	/	Neg.	9	0,00	-	/	Neg.	NA
2009	Composite food	1-	D8	Provençal chicken sandwich	No	/	/	Neg.	6	0,00	-	/	Neg.	NA
2009	Composite food	1-	E3	Spicy pita salad	No	/	/	Neg.	3	0,00	-	/	Neg.	NA
2009	Composite food	1-	G3	Smoked salmon, salad, mozzarella	No	/	/	Neg.	4	0,00	-	/	Neg.	NA
2009	Composite food	1-	G2	Shrimp Pasta Salad	No	/	/	Neg.	5	0,00	-	/	Neg.	NA
2017	Composite food	1-	VC 6	Pig snout with vinaigrette	se	3.6	/	Neg.	/	0,00	-	/	Neg.	NA
2017	Composite food	1-	VC 37	Sandwich with ham and butter	No	/	/	Neg.	/	0,00	-	/	Neg.	NA
2017	Composite food	1-	VC 45	Mixed vegetables (macédoine)	No	/	/	Neg.	/	0,00	-	/	Neg.	NA
2017	Composite food	1-	VC 46	Semolina salad with vegetables	No	/	/	Neg.	/	0,00	-	/	Neg.	NA
2017	Composite food	1-	VC 40	Tuna rilette	No	/	/	Neg.	/	0,00	-	/	Neg.	NA
2017	Composite food	1-	VC 43	Grated carrots	No	/	/	Neg.	/	0,00	-	/	Neg.	NA
2017	Composite food	1-	VC 38	Sandwich with Coppa and Emmental	No	/	/	Neg.	/	0,00	-	/	Neg.	NA
2017	Composite food	1-	VC 47	Beef panini cheese flavored	No	/	/	Neg.	/	0,00	-	/	Neg.	NA
2017	Composite food	1-	38	Taboulet with chicken	No	/	/	Neg.	0	0,00	-	/	Neg.	NA
2017	Composite food	1-	40	strabourgeoise salad	No	/	/	Neg.	0	0,00	-	/	Neg.	NA
2017	Composite food	1-	42	Piémontaise with ham	No	/	/	Neg.	2	0,00	-	/	Neg.	NA
2017	Composite food	1-	44	Sandwich with salmon and chives	No	/	/	Neg.	0	0,00	-	/	Neg.	NA
2009	Composite food	2-	F6	Small Vegetables Stuffed	No	/	<i>L. innocua</i>	Neg.	4	0,00	-	/	Neg.	NA
2009	Composite food	2-	G10	Stuffed zucchini	No	/	/	Neg.	3	0,00	-	/	Neg.	NA
2009	Composite food	2-	C21	Pizza goat bacon	No	/	<i>L. welshimeri</i>	Neg.	80	0,02	-	/	Neg.	NA
2009	Composite food	2-	C11	Smoked fish	No	/	/	Neg.	5	0,00	-	/	Neg.	NA
2009	Composite food	2-	F12	Salmon pizza	No	/	/	Neg.	4	0,00	-	/	Neg.	NA
2009	Composite food	2-	G7	Salmon pizza	No	/	/	Neg.	3	0,00	-	/	Neg.	NA
2009	Composite food	2-	A9	Penne and its little vegetables	No	/	/	Neg.	3	0,00	-	/	Neg.	NA
2009	Composite food	2-	C3	Penne tomato basil and broccoli	No	/	/	Neg.	4	0,00	-	/	Neg.	NA
2009	Composite food	2-	F13	Pizza with Goat cheese	No	/	/	Neg.	4	0,00	-	/	Neg.	NA
2017	Composite food	2-	VC 30	Pie with spinach and goat cheese	No	/	/	Neg.	/	0,00	-	/	Neg.	NA
2017	Composite food	2-	VC 36	Fusilli carbonara	No	/	/	Neg.	/	0,00	-	/	Neg.	NA
2017	Composite food	2-	VC 44	Pie with tomatoes and goat cheese	No	/	/	Neg.	/	0,00	-	/	Neg.	NA
2017	Composite food	2-	VC 3	Pizza: ham, cheese and mushrooms	se	2.2	/	Neg.	/	0,03	-	/	Neg.	NA
2017	Composite food	2-	VC 29	Cannelloni bolognese	No	/	/	Neg.	/	0,00	-	/	Neg.	NA
2017	Composite food	2-	VC 63	Tortilla potatoes, eggs, bacon	No	/	/	Neg.	/	0,00	-	/	Neg.	NA
2017	Composite food	2-	48	Pizza with ham and cheese	No	/	/	Neg.	3	0,00	-	/	Neg.	NA
2009	Composite food	3-	B14	Pineapple cake	No	/	/	Neg.	3	0,00	-	/	Neg.	NA
2009	Composite food	3-	C22	Merveilleux	No	/	/	Neg.	12	0,00	-	/	Neg.	NA
2009	Composite food	3-	Q3	Tropézienne pie	No	/	/	Neg.	7	0,00	-	/	Neg.	NA

Study	Category	Type	Code	Matrices	Artificial contamination		ISO 11290-1		VIDAS LMX method				Comparison	
					Type	Level	CONFIRMATION	Final result	Detection			Confirmation		Final result
							Identification		RFV	VT	Test result	Identification		
2009	Composite food	3-	Q4	Cup duo profiteroles	No	/	/	Neg.	4	0,00	-	/	Neg.	NA
2009	Composite food	3-	Q5	Versillais	No	/	/	Neg.	7	0,00	-	/	Neg.	NA
2009	Composite food	3-	AB4	Chocolate mousse cake	No	/	/	Neg.	0	0,00	-	/	Neg.	NA
2009	Composite food	3-	AB13	Strawberry tart	No	/	/	Neg.	1	0,00	-	/	Neg.	NA
2009	Composite food	3-	AE2	Tart with custard	No	/	/	Neg.	2	0,00	-	/	Neg.	NA
2009	Composite food	3-	AF27	Raspberry pie	No	/	/	Neg.	3	0,00	-	/	Neg.	NA
2009	Composite food	3-	AF29	Chocolate cake	No	/	/	Neg.	9	0,00	-	/	Neg.	NA
2009	Composite food	3-	AG20	Saint Honoré	No	/	/	Neg.	5	0,00	-	/	Neg.	NA
2017	Composite food	3-	VC 31	Frut salad	No	/	/	Neg.	/	0,00	-	/	Neg.	NA
2017	Composite food	3-	VC 32	Custard tart	No	/	/	Neg.	/	0,00	-	/	Neg.	NA
2017	Composite food	3-	VC 33	Strawberry pie	No	/	/	Neg.	/	0,00	-	/	Neg.	NA
2017	Composite food	3-	VC 34	Paris Brest	No	/	/	Neg.	/	0,00	-	/	Neg.	NA
2017	Composite food	3-	VC 35	Bread with custard	No	/	/	Neg.	/	0,00	-	/	Neg.	NA
2017	Composite food	3-	VC 41	Tresse provencale	No	/	/	Neg.	/	0,00	-	/	Neg.	NA
2017	Composite food	3-	VC 42	Pancake	No	/	/	Neg.	/	0,00	-	/	Neg.	NA
2017	Composite food	3-	VC 48	Eclair au café	No	/	/	Neg.	/	0,00	-	/	Neg.	NA
2017	Composite food	3-	VC 49	Cream doughnut	se	1,2	/	Neg.	/	0,00	-	/	Neg.	NA
2017	Composite food	3-	VC 50	Patte d'ours	se	1,2	/	Neg.	/	0,00	-	/	Neg.	NA
2017	Composite food	3-	VC 51	Apple pie 2	se	1,2	/	Neg.	/	0,00	-	/	Neg.	NA
2017	Composite food	3-	VC 56	Lemon tourt	se	1.4	/	Neg.	/	0,02	-	/	Neg.	NA
2017	Composite food	3-	VC 60	Vermicelli with beef, rice, vegetables	se	1.4	/	Neg.	/	0,00	-	/	Neg.	NA
2009	Composite food	1+	F7	Smoked salmon, soft cheese, dill	No	/	<i>L. welshimeri</i>	Neg.	10 287	3,21	+	<i>L. monocytogenes</i>	Pos.	PD
2009	Composite food	1+	A10	Shrimp Pasta Salad	No	/	<i>L. monocytogenes</i>	Pos.	942	0,30	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Composite food	1+	VC 1	Salad with pasta, tuna and vegetables	se	2.8	/	Neg.	/	2.45	+	<i>L. monocytogenes</i>	Pos.	PD
2017	Composite food	1+	VC 27	Sandwich with meat, tomato	se	2.6	/	Neg.	/	0.16	+	<i>L. monocytogenes</i>	Pos.	PD
2017	Composite food	1+	VC 2	Sandwich with salmon	se	2.8	<i>L. monocytogenes</i>	Pos.	/	2.67	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Composite food	1+	VC 7	Salad of semolina with vegetables and chicken	se	3.6	<i>L. monocytogenes</i>	Pos.	/	3.28	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Composite food	1+	VC 20	Piemontoise salad	se	2.4	<i>L. monocytogenes</i>	Pos.	/	2.20	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Composite food	1+	VC 21	Tabbouleh with chicken and chive	se	1.6	<i>L. monocytogenes</i>	Pos.	/	3.21	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Composite food	1+	VC 23	Sandwich with emmental	se	1.6	<i>L. monocytogenes</i>	Pos.	/	3.23	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Composite food	1+	VC 24	Sandwich with chicken and mayonnaise	se	1.6	<i>L. monocytogenes</i>	Pos.	/	3.19	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Composite food	1+	VC 25	Sandwich with surimi, salad and cucumber	se	2.6	<i>L. monocytogenes</i>	Pos.	/	3.22	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Composite food	1+	VC 26	Sandwich with tuna, raw vegetables and moyonnaise	se	2.6	<i>L. monocytogenes</i>	Pos.	/	3.13	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Composite food	1+	53	Taboulet with chicken	se	2,2	<i>L. monocytogenes</i>	Pos.	9 882	2,51	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Composite food	1+	55	strabourgeoise salad	se	2,2	<i>L. monocytogenes</i>	Pos.	10 749	2,73	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Composite food	1+	57	Piémontaise with ham	se	2,2	<i>L. monocytogenes</i>	Pos.	10 542	2,68	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Composite food	1+	59	Sandwich with salmon and chives	se	2,6	<i>L. monocytogenes</i>	Pos.	10 600	2,69	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Composite food	1+	61	Sandwich with ham and Emmental	se	2,6	<i>L. monocytogenes</i>	Pos.	10 420	2,65	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Composite food	1+	63	Sandwich with tuna and crudities	se	2,6	<i>L. monocytogenes</i>	Pos.	10 678	2,71	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Composite food	1+	65	Sandwich with ham and butter	se	2,6	<i>L. monocytogenes</i>	Pos.	10 160	2,58	+	<i>L. monocytogenes</i>	Pos.	PA

Study	Category	Type	Code	Matrices	Artificial contamination		ISO 11290-1		VIDAS LMX method					Comparison
					Type	Level	CONFIRMATION	Final result	Detection			Confirmation	Final result	
							Identification		RFV	VT	Test result	Identification		
2017	Composite food	1+	67	Sandwich with rosette and butter	se	2,6	<i>L. monocytogenes</i>	Pos.	10 802	2,74	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Composite food	2+	A20	Pizza Emmental Ham	No	/	<i>L. monocytogenes</i> <i>L. welshimeri</i>	Pos.	1 036	0,33	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Composite food	2+	B6	Chicken Paella	No	/	<i>L. monocytogenes</i>	Pos.	10 435	3,33	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Composite food	2+	C14	Pizza Ham mushrooms	No	/	<i>L. monocytogenes</i> <i>L. welshimeri</i>	Pos.	4 491	1,43	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Composite food	2+	C15	Pizza ham cheese	No	/	<i>L. monocytogenes</i> <i>L. welshimeri</i>	Pos.	6 285	2,00	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Composite food	2+	D12	Pizza Ham mushrooms	No	/	<i>L. monocytogenes</i> <i>L. welshimeri</i>	Pos.	7 950	2,54	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Composite food	2+	H4	Pizza with 3 cheeses	No	/	<i>L. monocytogenes</i> <i>L. welshimeri</i>	Pos.	5 176	1,59	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Composite food	2+	J23	Pizza with Goat cheese	No	/	<i>L. monocytogenes</i> <i>L. welshimeri</i>	Pos.	1 212	0,37	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Composite food	2+	C13	Filet of hake, rice and vegetables	No	/	/	Neg.	408	0,13	+	<i>L. monocytogenes</i>	Pos.	PD
2009	Composite food	2+	A11	Paella seafood	No	/	<i>L. monocytogenes</i>	Pos.	10 036	3,20	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Composite food	2+	A13	Crispy snail	No	/	<i>L. monocytogenes</i>	Pos.	10 407	3,32	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Composite food	2+	B5	Chinese noodles and crunchy vegetables	No	/	<i>L. monocytogenes</i>	Pos.	2	0,00	-	<i>Isol Lx: L. monocytogenes</i>	Neg.	ND FN <sub>ait</sub>
2009	Composite food	2+	D13	Goat cheese Pizza	No	/	<i>L. monocytogenes</i> <i>L. welshimeri</i>	Pos.	1 481	0,47	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Composite food	2+	VC 5	Cooked pasta with cheese	se	2,6	/	Neg.	/	3,40	+	<i>L. monocytogenes</i>	Pos.	PD
2017	Composite food	2+	VC 28	Pizza	se	2,6	/	Neg.	/	0,05	+	<i>L. monocytogenes</i>	Pos.	PD
2017	Composite food	2+	VC 15	Galette of black corn	se	2	<i>L. monocytogenes</i>	Pos.	/	0,04	-	/	Neg.	ND
2017	Composite food	2+	VC 17	Vegetable gratin with pork	se	2	<i>L. monocytogenes</i>	Pos.	/	0,00	-	/	Neg.	ND
2017	Composite food	2+	VC 19	Chinese pasta with vegetables	se	2,4	<i>L. monocytogenes</i>	Pos.	/	0,00	-	/	Neg.	ND
2017	Composite food	2+	VC 8	Quiche lorraine	se	3,6	<i>L. monocytogenes</i>	Pos.	/	3,34	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Composite food	2+	VC 9	Pie with tuna, tomato and sweet pepper	se	3,8	<i>L. monocytogenes</i>	Pos.	/	3,31	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Composite food	2+	VC 10	Bœuf bourguignon	se	3,8	<i>L. monocytogenes</i>	Pos.	/	3,29	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Composite food	2+	VC 11	Croissant with ham	se	8,0	<i>L. monocytogenes</i>	Pos.	/	3,27	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Composite food	2+	VC 12	Couscous	se	8,0	<i>L. monocytogenes</i>	Pos.	/	0,10	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Composite food	2+	VC 16	Tortilla of bacon	se	2	<i>L. monocytogenes</i>	Pos.	/	3,44	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Composite food	2+	VC 18	Lasagna of chicken	se	2,4	<i>L. monocytogenes</i>	Pos.	/	3,42	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Composite food	2+	VC 22	Shepherd's pie	se	1,6	<i>L. monocytogenes</i>	Pos.	/	3,24	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Composite food	2+	VC 39	Spaghetti with bolognaise and parmesan cheese	No	/	<i>L. monocytogenes</i>	Pos.	/	2,98	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Composite food	2+	VC 53	Curry noodles salad	se	0	<i>L. monocytogenes</i>	Pos.	/	3,08	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Composite food	3+	C24	Chou chantilly	No	/	<i>L. monocytogenes</i>	Pos.	10 138	3,24	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Composite food	3+	H1	Cup duo profiteroles	No	/	<i>L. monocytogenes</i>	Pos.	10 685	3,29	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Composite food	3+	H2	Stawberry duo cup	No	/	<i>L. monocytogenes</i>	Pos.	10 693	3,30	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Composite food	3+	H3	Profiteroles chantilly	No	/	<i>L. monocytogenes</i>	Pos.	11 011	3,40	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Composite food	3+	K1	Strawberry duo cup	No	/	<i>L. monocytogenes</i>	Pos.	9 717	3,00	+	<i>L. monocytogenes</i>	Pos.	PA

Study	Category	Type	Code	Matrices	Artificial contamination		ISO 11290-1		VIDAS LMX method				Comparison	
					Type	Level	CONFIRMATION	Final result	Detection			Confirmation		Final result
							Identification		RFV	VT	Test result	Identification		
2009	Composite food	3+	K2	Chou chantilly	No	/	<i>L. monocytogenes</i>	Pos.	9 771	3,01	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Composite food	3+	M6	Chou chantilly	No	/	<i>L. monocytogenes</i>	Pos.	9 109	2,82	+	<i>L. monocytogenes</i> <i>Isol Lx: L. monocytogenes</i>	Pos.	PA
2017	Composite food	3+	VC 61	Hazelnut cake	se	1,8	/	Neg.	/	0,11	+	<i>L. monocytogenes</i>	Pos.	PD
2017	Composite food	3+	VC 4	Pie with peach and pear	se	1,4	<i>L. monocytogenes</i>	Pos.	/	3,00	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Composite food	3+	VC 13	Chocolate cake	se	1,6	<i>L. monocytogenes</i>	Pos.	/	3,24	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Composite food	3+	VC 14	Apple pie 1	se	1,6	<i>L. monocytogenes</i>	Pos.	/	3,01	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Composite food	3+	VC 52	Strawberry pie	se	0	<i>L. monocytogenes</i>	Pos.	/	2,62	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Composite food	3+	VC 54	Clafoutis	se	0	<i>L. monocytogenes</i>	Pos.	/	3,07	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Composite food	3+	VC 55	Egg cream 1	se	1,4	<i>L. monocytogenes</i>	Pos.	/	2,85	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Composite food	3+	VC 57	Custard	se	1,4	<i>L. monocytogenes</i>	Pos.	/	2,88	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Composite food	3+	VC 58	Tiramisu	se	2,2	<i>L. monocytogenes</i>	Pos.	/	0,42	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Composite food	3+	VC 59	Egg cream 2	se	2,2	<i>L. monocytogenes</i>	Pos.	/	1,40	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Composite food	3+	VC 62	Chocolate and hazelnut cake	se	1,8	<i>L. monocytogenes</i>	Pos.	/	2,31	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Composite food	3+	69	Raspberries tart	se	1,8	<i>L. monocytogenes</i>	Pos.	10872	2,76	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Composite food	3+	71	Mille feuille	se	2,8	<i>L. monocytogenes</i>	Pos.	10793	2,74	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Composite food	3+	73	Savarin with rhum and pastry cream	se	2,8	<i>L. monocytogenes</i>	Pos.	9238	2,35	+	<i>L. monocytogenes</i>	Pos.	PA

## Composite foods : storage for 72 hours at 2-8°C

Study	Category	Type	Code	Matrices	Artificial contamination		ISO 11290-1		VIDAS LMX method					Comparison
					Type	Level	CONFIRMATION	Final result	Detection			Confirmation	Final result	
							Identification		RFV	VT	Test result	Identification		
2009	Composite food	1+	F7	Smoked salmon, soft cheese, dill	No	/	<i>L. welshimeri</i>	Neg.	10 109	3,16	+	<i>L. monocytogenes</i>	Pos.	PD
2009	Composite food	1+	A10	Shrimp Pasta Salad	No	/	<i>L. monocytogenes</i>	Pos.	5 772	1,84	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Composite food	1+	VC 1	Salad with pasta, tuna and vegetables	se	2.8	/	Neg.	/	2.61	+	+	Pos.	PD
2017	Composite food	1+	VC 27	Sandwich with meat, tomato	se	2.6	/	Neg.	/	0,14	+	+	Pos.	PD
2017	Composite food	1+	VC 2	Sandwich with salmon	se	2.8	<i>L. monocytogenes</i>	Pos.	/	3.31	+	+	Pos.	PA
2017	Composite food	1+	VC 7	Salad of semolina with vegetables and chicken	se	3.6	<i>L. monocytogenes</i>	Pos.	/	3.30	+	+	Pos.	PA
2017	Composite food	1+	VC 20	Piemontoise salad	se	2.4	<i>L. monocytogenes</i>	Pos.	/	2.22	+	+	Pos.	PA
2017	Composite food	1+	VC 21	Tabbouleh with chicken and chive	se	1.6	<i>L. monocytogenes</i>	Pos.	/	2.83	+	+	Pos.	PA
2017	Composite food	1+	VC 23	Sandwich with emmental	se	1.6	<i>L. monocytogenes</i>	Pos.	/	3.05	+	+	Pos.	PA
2017	Composite food	1+	VC 24	Sandwich with chicken and mayonnaise	se	1.6	<i>L. monocytogenes</i>	Pos.	/	3.05	+	+	Pos.	PA
2017	Composite food	1+	VC 25	Sandwich with surimi, salad and cucumber	se	2.6	<i>L. monocytogenes</i>	Pos.	/	2.43	+	+	Pos.	PA
2017	Composite food	1+	VC 26	Sandwich with tuna, raw vegetables and moyonnaise	se	2.6	<i>L. monocytogenes</i>	Pos.	/	3.13	+	+	Pos.	PA
2017	Composite food	1+	53	Taboulet with chicken	se	2,2	<i>L. monocytogenes</i>	Pos.	10 718	2,72	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Composite food	1+	55	strabourgeoise salad	se	2,2	<i>L. monocytogenes</i>	Pos.	9 565	2,43	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Composite food	1+	57	Piémontaise with ham	se	2,2	<i>L. monocytogenes</i>	Pos.	10 863	2,76	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Composite food	1+	59	Sandwich with salmon and chives	se	2,6	<i>L. monocytogenes</i>	Pos.	10 958	2,78	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Composite food	1+	61	Sandwich with ham and Emmental	se	2,6	<i>L. monocytogenes</i>	Pos.	10 924	2,77	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Composite food	1+	63	Sandwich with tuna and crudities	se	2,6	<i>L. monocytogenes</i>	Pos.	11 028	2,80	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Composite food	1+	65	Sandwich with ham and butter	se	2,6	<i>L. monocytogenes</i>	Pos.	10 778	2,74	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Composite food	1+	67	Sandwich with rosette and butter	se	2,6	<i>L. monocytogenes</i>	Pos.	10 672	2,71	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Composite food	2+	A20	Pizza Emmental Ham	No	/	<i>L. monocytogenes</i> <i>L. welshimeri</i>	Pos.	2 537	0,81	+	- <i>Isol Lx: L.monocytogenes</i>	Pos.	PA
2009	Composite food	2+	B6	Chicken Paella	No	/	<i>L. monocytogenes</i>	Pos.	11 918	3,81	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Composite food	2+	C14	Pizza Ham mushrooms	No	/	<i>L. monocytogenes</i> <i>L. welshimeri</i>	Pos.	8 568	2,73	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Composite food	2+	C15	Pizza ham cheese	No	/	<i>L. monocytogenes</i> <i>L. welshimeri</i>	Pos.	8 098	2,58	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Composite food	2+	D12	Pizza Ham mushrooms	No	/	<i>L. monocytogenes</i> <i>L. welshimeri</i>	Pos.	11 659	3,64	+	<i>L. monocytogenes</i>	Pos.	PA

Study	Category	Type	Code	Matrices	Artificial contamination		ISO 11290-1		VIDAS LMX method					Comparison
					Type	Level	CONFIRMATION	Final result	Detection			Confirmation	Final result	
							Identification		RFV	VT	Test result	Identification		
2009	Composite food	2+	H4	Pizza with 3 cheeses	No	/	<i>L. monocytogenes</i> <i>L. welshimeri</i>	Pos.	4070	1,25	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Composite food	2+	J23	Pizza with Goat cheese	No	/	<i>L. monocytogenes</i> <i>L. welshimeri</i>	Pos.	1645	0,5	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Composite food	2+	C13	Filet of hake, rice and vegetables	No	/	/	Neg.	6 143	1,96	+	<i>L. monocytogenes</i>	Pos.	PD
2009	Composite food	2+	A11	Paella seafood	No	/	<i>L. monocytogenes</i>	Pos.	10 248	3,27	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Composite food	2+	A13	Crispy snail	No	/	<i>L. monocytogenes</i>	Pos.	9 638	3,08	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Composite food	2+	B5	Chinese noodles and crunchy vegetables	No	/	<i>L. monocytogenes</i>	Pos.	3	0,00	-	/	Neg.	ND
2009	Composite food	2+	D13	Goat cheese Pizza	No	/	<i>L. monocytogenes</i> <i>L. welshimeri</i>	Pos.	4 270	1,33	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Composite food	2+	VC 5	Cooked pasta with cheese	se	2.6	/	Neg.	/	3.31	+	+	Pos.	PD
2017	Composite food	2+	VC 28	Pizza	se	2.6	/	Neg.	/	0,04	-	+	Neg. (FN)	NA
2017	Composite food	2+	VC 15	Galette of black corn	se	2	<i>L. monocytogenes</i>	Pos.	/	0.00	-	-	Neg.	ND
2017	Composite food	2+	VC 17	Vegetable gratin with pork	se	2	<i>L. monocytogenes</i>	Pos.	/	0.01	-	-	Neg.	ND
2017	Composite food	2+	VC 19	Chinese pasta with vegetables	se	2.4	<i>L. monocytogenes</i>	Pos.	/	0.00	-	-	Neg.	ND
2017	Composite food	2+	VC 8	Quiche lorraine	se	3.6	<i>L. monocytogenes</i>	Pos.	/	3.35	+	+	Pos.	PA
2017	Composite food	2+	VC 9	Pie with tuna, tomato and sweet pepper	se	3.8	<i>L. monocytogenes</i>	Pos.	/	3.32	+	+	Pos.	PA
2017	Composite food	2+	VC 10	Bœuf bourguignon	se	3.8	<i>L. monocytogenes</i>	Pos.	/	3.35	+	+	Pos.	PA
2017	Composite food	2+	VC 11	Croissant with ham	se	8.0	<i>L. monocytogenes</i>	Pos.	/	3.23	+	+	Pos.	PA
2017	Composite food	2+	VC 12	Couscous	se	8.0	<i>L. monocytogenes</i>	Pos.	/	0,01	-	+	Neg. (FN)	ND
2017	Composite food	2+	VC 16	Tortilla of bacon	se	2	<i>L. monocytogenes</i>	Pos.	/	3.06	+	+	Pos.	PA
2017	Composite food	2+	VC 18	Lasagna of chicken	se	2.4	<i>L. monocytogenes</i>	Pos.	/	3.19	+	+	Pos.	PA
2017	Composite food	2+	VC 22	Shepherd's pie	se	1.6	<i>L. monocytogenes</i>	Pos.	/	3.15	+	+	Pos.	PA
2017	Composite food	2+	VC 39	Spaghetti with bolognaise and parmesan cheese	/	/	<i>L. monocytogenes</i>	Pos.	/	2,99	+	+	Pos.	PA
2017	Composite food	2+	VC 53	Curry noodles salad	se	0	<i>L. monocytogenes</i>	Pos.	/	2.59	+	+	Pos.	PA
2009	Composite food	3+	C24	Chou chantilly	No	/	<i>L. monocytogenes</i>	Pos.	10683	3,41	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Composite food	3+	H1	Cup duo profiteroles	No	/	<i>L. monocytogenes</i>	Pos.	9896	3,05	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Composite food	3+	H2	Strawberry duo cup	No	/	<i>L. monocytogenes</i>	Pos.	9982	3,08	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Composite food	3+	H3	Profiteroles chantilly	No	/	<i>L. monocytogenes</i>	Pos.	10112	3,12	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Composite food	3+	K1	Strawberry duo cup	No	/	<i>L. monocytogenes</i>	Pos.	10387	3,24	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Composite food	3+	K2	Chou chantilly	No	/	<i>L. monocytogenes</i>	Pos.	10333	3,22	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Composite food	3+	M6	Chou chantilly	No	/	<i>L. monocytogenes</i>	Pos.	9989	3,09	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Composite food	3+	VC 61	Hazelnut cake	se	1.8	/	Neg.	/	1.45	+	+	Pos.	PD
2017	Composite food	3+	VC 4	Pie with peach and pear	se	1.4	<i>L. monocytogenes</i>	Pos.	/	3.38	+	+	Pos.	PA
2017	Composite food	3+	VC 13	Chocolate cake	se	1.6	<i>L. monocytogenes</i>	Pos.	/	3.22	+	+	Pos.	PA
2017	Composite food	3+	VC 14	Apple pie 1	se	1.6	<i>L. monocytogenes</i>	Pos.	/	3.16	+	+	Pos.	PA
2017	Composite food	3+	VC 52	Strawberry pie	se	0	<i>L. monocytogenes</i>	Pos.	/	3.07	+	+	Pos.	PA
2017	Composite food	3+	VC 54	Clafoutis	se	0	<i>L. monocytogenes</i>	Pos.	/	3.06	+	+	Pos.	PA
2017	Composite food	3+	VC 55	Egg cream 1	se	1.4	<i>L. monocytogenes</i>	Pos.	/	2.94	+	+	Pos.	PA
2017	Composite food	3+	VC 57	Custard	se	1.4	<i>L. monocytogenes</i>	Pos.	/	3.01	+	+	Pos.	PA

Study	Category	Type	Code	Matrices	Artificial contamination		ISO 11290-1		VIDAS LMX method					Comparison
					Type	Level	CONFIRMATION	Final result	Detection			Confirmation	Final result	
							<i>Identification</i>		RFV	VT	Test result	<i>Identification</i>		
2017	Composite food	3+	VC 58	Tiramisu	se	2,2	<i>L. monocytogenes</i>	Pos.	/	2,08	+	+	Pos.	PA
2017	Composite food	3+	VC 59	Egg cream 2	se	2,2	<i>L. monocytogenes</i>	Pos.	/	2,51	+	+	Pos.	PA
2017	Composite food	3+	VC 62	Chocolate and hazelnut cake	se	1,8	<i>L. monocytogenes</i>	Pos.	/	3,02	+	+	Pos.	PA
2017	Composite food	3+	69	Raspberries tart	se	1,8	<i>L. monocytogenes</i>	Pos.	10704	2,72	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Composite food	3+	71	Mille feuille	se	2,8	<i>L. monocytogenes</i>	Pos.	10643	2,70	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Composite food	3+	73	Savarin with rhum and pastry cream	se	2,8	<i>L. monocytogenes</i>	Pos.	10563	2,68	+	<i>L. monocytogenes</i>	Pos.	PA

## Environmental samples

Study	Category	Type	Code	Matrices	Artificial contamination		ISO 11290-1		VIDAS LMX method					Comparison
					Type	Level	CONFIRMATION	Final result	Detection			Confirmation	Final result	
							Identification		RFV	VT	Test result	Identification		
2009	Environmental samples	1-	B17	Residual water dirty tray	No	/	/	Neg.	35	0,01	-	/	Neg.	NA
2009	Environmental samples	1-	K7	Dirty stagnant dirty water	No	/	/	Neg.	4	0,00	-	/	Neg.	NA
2009	Environmental samples	1-	M14	Water	sp	1,2	/	Neg.	5	0,00	-	/	Neg.	NA
2009	Environmental samples	1-	AH1	Process water	No	/	/	Neg.	4	0,00	-	/	Neg.	NA
2009	Environmental samples	1-	AH2	Washing water	No	/	/	Neg.	3	0,00	-	/	Neg.	NA
2009	Environmental samples	1-	AH3	Frozen water	No	/	/	Neg.	5	0,00	-	/	Neg.	NA
2009	Environmental samples	1-	AH4	Water rinsing vegetables	No	/	/	Neg.	4	0,00	-	/	Neg.	NA
2009	Environmental samples	1-	AH5	Water rinsing vegetables	No	/	/	Neg.	3	0,00	-	/	Neg.	NA
2009	Environmental samples	1-	AH6	Water rinsing booth fish	No	/	/	Neg.	3	0,00	-	/	Neg.	NA
2009	Environmental samples	1-	AH8	Process water	No	/	/	Neg.	3	0,00	-	/	Neg.	NA
2009	Environmental samples	2-	B12	PS White fish cutting table	No	/	/	Neg.	24	0,00	-	/	Neg.	NA
2009	Environmental samples	2-	E19	PS cutting board before washing	No	/	/	Neg.	18	0,00	-	/	Neg.	NA
2009	Environmental samples	2-	E20	PS table inox workshop	No	/	/	Neg.	19	0,00	-	/	Neg.	NA
2009	Environmental samples	2-	G18	PS cutting table	No	/	/	Neg.	19	0,00	-	/	Neg.	NA
2009	Environmental samples	2-	I11	PS Thread fish	No	/	<i>L. innocua</i>	Neg.	7	0,00	-	/	Neg.	NA
2009	Environmental samples	2-	I12	PS salmon tray	No	/	/	Neg.	31	0,00	-	/	Neg.	NA
2009	Environmental samples	2-	M11	PS slicer before washing	No	/	/	Neg.	14	0,00	-	/	Neg.	NA
2009	Environmental samples	2-	O13	PS gray bin before washing	No	/	/	Neg.	10	0,00	-	/	Neg.	NA
2009	Environmental samples	2-	Q10	PS inox table inox workshop preparation fishmonger	No	/	/	Neg.	8	0,00	-	/	Neg.	NA
2017	Environmental samples	2-	50	Surface sample 1	No	/	/	Neg.	3	0,00	-	/	Neg.	NA
2009	Environmental samples	3-	B13	Residues hachoir workshop butchery	No	/	/	Neg.	2	0,00	-	/	Neg.	NA
2009	Environmental samples	3-	B18	Slicer residues	No	/	/	Neg.	4	0,00	-	/	Neg.	NA
2009	Environmental samples	3-	D3	Residues production line 1	No	/	/	Neg.	4	0,00	-	/	Neg.	NA
2009	Environmental samples	3-	D4	Residues stand delicatessen	No	/	<i>L. innocua</i>	Neg.	3	0,00	-	/	Neg.	NA
2009	Environmental samples	3-	D18	Residues stand	No	/	/	Neg.	8	0,00	-	/	Neg.	NA
2009	Environmental samples	3-	E11	Residue threader	No	/	/	Neg.	5	0,00	-	/	Neg.	NA
2009	Environmental samples	3-	E12	Sink waste	No	/	/	Neg.	3	0,00	-	/	Neg.	NA
2009	Environmental samples	3-	G17	White fish workshop residues	No	/	/	Neg.	8	0,00	-	/	Neg.	NA
2009	Environmental samples	3-	K6	Vegetable residues manufacturing line	No	/	/	Neg.	6	0,00	-	/	Neg.	NA
2009	Environmental samples	3-	M9	Residues workshop fishmonger	No	/	/	Neg.	7	0,00	-	/	Neg.	NA
2009	Environmental samples	3-	Q7	Residues hachoir workshop butchery	No	/	/	Neg.	24	0,00	-	/	Neg.	NA
2009	Environmental samples	1+	O18	Water rinsing	No	/	<i>L. monocytogenes</i> <i>L. innocua</i>	Pos.	3	0,00	-	<i>L. innocua</i> <i>L. innocua</i>	Neg.	ND
2009	Environmental samples	1+	N14	Water rinsing vegetables	No	/	<i>L. monocytogenes</i>	Pos.	10 922	3,38	+	<i>L. monocytogenes</i> <i>L. monocytogenes</i>	Pos.	PA
2009	Environmental samples	1+	AH7	Water rinsing cup tray	No	/	<i>L.monocytogenes</i>	Pos.	10893	3,79	+	<i>L.monocytogenes</i>	Pos.	PA

Study	Category	Type	Code	Matrices	Artificial contamination		ISO 11290-1		VIDAS LMX method					Comparison
					Type	Level	CONFIRMATION	Final result	Detection			Confirmation	Final result	
							Identification		RFV	VT	Test result	Identification		
2009	Environmental samples	1+	M15	Water	sp	1,5	<i>L. monocytogenes</i>	Pos.	11 417	3,53	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Environmental samples	1+	G19	New Water	sp	8,1	<i>L. monocytogenes</i>	Pos.	9 015	2,81	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Environmental samples	1+	G20	Frozen water	sp	16,2	<i>L. monocytogenes</i>	Pos.	9 228	2,88	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Environmental samples	1+	75	Processed water 1	se	2,2	<i>L. monocytogenes</i>	Pos.	9 987	2,54	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Environmental samples	1+	77	Processed water 2	se	2,2	<i>L. monocytogenes</i>	Pos.	10 265	2,61	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Environmental samples	1+	79	Processed water 3	se	2,2	<i>L. monocytogenes</i>	Pos.	8 796	2,24	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Environmental samples	1+	81	Processed water 4	se	2,6	<i>L. monocytogenes</i>	Pos.	10 854	2,76	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Environmental samples	2+	B16	PS Workshop cutting table	No	/	/	Neg.	10 826	3,46	+	<i>L. monocytogenes</i>	Pos.	PD
2009	Environmental samples	2+	B11	PS Fish white fish	No	/	<i>L. monocytogenes</i>	Pos.	10 355	3,31	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Environmental samples	2+	D17	PS slicer before washing	No	/	<i>L. monocytogenes</i>	Pos.	10 392	3,32	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Environmental samples	2+	O17	PS slicer before washing	No	/	<i>L. monocytogenes</i>	Pos.	10 748	3,32	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Environmental samples	2+	Q11	PS threading machine before washing	No	/	<i>L. monocytogenes</i>	Pos.	10 400	3,62	+	<i>L. monocytogenes</i> <i>L. monocytogenes</i>	Pos.	PA
2009	Environmental samples	2+	M12	PS Slicer stand delicatessen	sp	0,58	/	Neg.	329	0,10	+	<i>L. monocytogenes</i> <i>L. monocytogenes</i>	Pos.	PD
2009	Environmental samples	2+	M13	PS Dirty knife delicatessen	sp	0,87	<i>L. monocytogenes</i>	Pos.	1 625	0,50	+	<i>L. monocytogenes</i> <i>L. monocytogenes</i>	Pos.	PA
2009	Environmental samples	2+	G21	PS floor stand delicatessen	sp	12,2	<i>L. monocytogenes</i>	Pos.	9 534	2,98	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Environmental samples	2+	83	Surface sample 1	se	2,6	<i>L. monocytogenes</i>	Pos.	10 623	2,70	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Environmental samples	2+	85	Surface sample 2	se	2,6	<i>L. monocytogenes</i>	Pos.	10 478	2,66	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Environmental samples	3+	M10	Meat products	No	/	<i>L. monocytogenes</i>	Pos.	3	0,00	-	/	Neg.	ND
2009	Environmental samples	3+	C23	Production workshop residues	No	/	<i>L. monocytogenes</i> <i>L. welshimeri</i>	Pos.	8 596	2,74	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Environmental samples	3+	D5	Residues dirty red tray	No	/	<i>L. monocytogenes</i> <i>L. welshimeri</i>	Pos.	5 273	1,68	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Environmental samples	3+	J22	Chicken Skin	No	/	<i>L. monocytogenes</i> <i>L. welshimeri</i>	Pos.	9 792	3,02	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Environmental samples	3+	K12	Residues stand sandwich	No	/	<i>L. monocytogenes</i>	Pos.	437	0,13	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Environmental samples	3+ 3+	Q8	Residues workshop delicatessen	No	/	<i>L. monocytogenes</i> <i>L. welshimeri</i>	Pos.	6 777	2,35	+	<i>L. monocytogenes</i> <i>L. monocytogenes</i>	Pos.	PA
2009	Environmental samples	3+ 3+	Q9	Residues workshop preparation fishmonger	No	/	<i>L. monocytogenes</i>	Pos.	10 305	3,58	+	<i>L. monocytogenes</i> <i>L. monocytogenes</i>	Pos.	PA
2009	Environmental samples	3+	AH9	Residue workshop fishmonger	No	/	<i>L. monocytogenes</i>	Pos.	1210	0,42	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Environmental samples	3+	AC13	Meat juice	No	/	<i>L. monocytogenes</i>	Pos.	11 063	2,76	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Environmental samples	3+	Q14	Residues tray waste deli meats	sp	21,0	<i>L. monocytogenes</i>	Pos.	4	0,00	-	/	Neg.	ND

## Environmental samples : storage for 72 hours at 2-8°C

Study	Category	Typ	Code	Matrices	Artificial contamination		ISO 11290-1		VIDAS LMX method				Comparison	
					Type	Level	CONFIRMATION	Final result	Detection			Confirmation		Final result
							Identification		RFV	VT	Test result	Identification		
2009	Environmental samples	1+	O18	Water rinsing	No	/	<i>L. monocytogenes</i> <i>L. innocua</i>	Pos.	8	0,00	-	<i>L. innocua</i>	Neg.	ND
2009	Environmental samples	1+	N14	Water rinsing vegetables	No	/	<i>L. monocytogenes</i>	Pos.	11 839	3,66	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Environmental samples	1+	M15	Water	sp	1,5	<i>L. monocytogenes</i>	Pos.	10 431	3,23	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Environmental samples	1+	G19	New Water	sp	8,1	<i>L. monocytogenes</i>	Pos.	11 349	3,72	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Environmental samples	1+	G20	Frozen water	sp	16,2	<i>L. monocytogenes</i>	Pos.	11 530	3,78	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Environmental samples	1+	75	Processed water 1	se	2,2	<i>L. monocytogenes</i>	Pos.	10 718	2,72	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Environmental samples	1+	77	Processed water 2	se	2,2	<i>L. monocytogenes</i>	Pos.	9 565	2,43	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Environmental samples	1+	79	Processed water 3	se	2,2	<i>L. monocytogenes</i>	Pos.	10 863	2,76	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Environmental samples	1+	81	Processed water 4	se	2,6	<i>L. monocytogenes</i>	Pos.	10 958	2,78	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Environmental samples	2+	B16	PS Workshop cutting table	No	/	/	-	10 466	3,34	+	<i>L. monocytogenes</i>	Pos.	PD
2009	Environmental samples	2+	B11	PS Fish white fish	No	/	<i>L. monocytogenes</i>	Pos.	10 529	3,36	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Environmental samples	2+	D17	PS slicer before washing	No	/	<i>L. monocytogenes</i>	Pos.	10 308	1,22	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Environmental samples	2+	O17	PS slicer before washing	No	/	<i>L. monocytogenes</i>	Pos.	10 185	3,15	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Environmental samples	2+	Q11	PS threading machine before washing	No	/	<i>L. monocytogenes</i>	Pos.	9 681	3,37	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Environmental samples	2+	M12	PS Slicer stand delicatessen	sp	0,6	/	-	1 361	0,42	+	<i>L. monocytogenes</i>	Pos.	PD
2009	Environmental samples	2+	M13	PS Dirty knife delicatessen	sp	0,9	<i>L. monocytogenes</i>	Pos.	10 440	3,23	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Environmental samples	2+	G21	PS floor stand delicatessen	sp	12,2	<i>L. monocytogenes</i>	Pos.	10 127	3,32	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Environmental samples	2+	83	Surface sample 1	se	2,6	<i>L. monocytogenes</i>	Pos.	10 924	2,77	+	<i>L. monocytogenes</i>	Pos.	PA
2017	Environmental samples	2+	85	Surface sample 2	se	2,6	<i>L. monocytogenes</i>	Pos.	11 028	2,80	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Environmental samples	3+	M10	Meat products	No	/	<i>L. monocytogenes</i>	Pos.	5	0,00	-	/	Neg.	ND

Study	Category	Typ	Code	Matrices	Artificial contamination		ISO 11290-1		VIDAS LMX method				Comparison	
					Type	Level	CONFIRMATION	Final result	Detection			Confirmation		Final result
							Identification		RFV	VT	Test result	Identification		
2009	Environmental samples	3+	C23	Production workshop residues	No	/	<i>L. monocytogenes</i> <i>L. welshimeri</i>	Pos.	10 653	3,40	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Environmental samples	3+	D5	Residues dirty red tray	No	/	<i>L. monocytogenes</i> <i>L. welshimeri</i>	Pos.	11 734	3,66	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Environmental samples	3+	J22	Chicken Skin	No	/	<i>L. monocytogenes</i> <i>L. welshimeri</i>	Pos.	1 773	0,54	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Environmental samples	3+	K12	Residues stand sandwich	No	/	<i>L. monocytogenes</i>	Pos.	11 503	3,59	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Environmental samples	3+	Q8	Residues workshop delicatessen	No	/	<i>L. monocytogenes</i> <i>L. welshimeri</i>	Pos.	9 388	3,26	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Environmental samples	3+	Q9	Residues workshop preparation fishmonger	No	/	<i>L. monocytogenes</i>	Pos.	9 430	3,28	+	<i>L. monocytogenes</i>	Pos.	PA
2009	Environmental samples	3+	Q14	Residues tray waste deli meats	sp	21,0	<i>L. monocytogenes</i>	Pos.	3	0,00	-	/	Neg.	ND



## **APPENDIX 4 :**

### **RLOD raw results**

Bacterial load :

L = light

M = medium

H = high

Distribution of flora :

A = pure culture of characteristic colonies

B = majority of characteristic colonies

C = minority of characteristic colonies

D = rare characteristic colonies in mixture

E = absence of characteristic colonies

## Meat products : Rillettes

Spiked with *Listeria monocytogenes* 1/2 b (L49)

Total flora : 1.5 10<sup>4</sup> CFU/g

Level	CFU/25g	EN ISO 11290-1					Alternative method							
		Half-Fraser		Fraser		Results	Conclusion	VIDAS LMX			Confirmations		Result	Conclusion
		PAL	OAA	PAL	OAA			RFV	TV	Test result	OAA	RLM		
1	0,00	∅	-LE	-LE	-LE	-	0/6	5	0,00	-	/	/	-	0/6
		∅	∅	∅	∅	-		4	0,00	-	/	/	-	
		∅	∅	∅	∅	-		4	0,00	-	/	/	-	
		∅	∅	-LE	∅	-		4	0,00	-	/	/	-	
		∅	∅	∅	∅	-		5	0,00	-	/	/	-	
		∅	∅	∅	∅	-		4	0,00	-	/	/	-	
2	0,79	+MA	+MA	+HA	+MA	+	3/6	4	0,00	-	/	/	-	1/6
		-ME	-LE	-ME	-ME	-		3	0,00	-	/	/	-	
		∅	∅	∅	∅	-		885	0,30	+	+HC*	+HB*	+	
		+MA	+MA	+HA	+MA	+		4	0,00	-	/	/	-	
		∅	∅	-LE	-LE	-		4	0,00	-	/	/	-	
		+LA	+MA	+MA	+MA	+		6	0,00	-	/	/	-	
3	1,34	+MA	+MA	+HA	+MA	+	5/6	4	0,00	-	/	/	-	4/6
		∅	∅	-LE	-LE	-		9974	3,47	+	+HA	+MA	+	
		+MA	+MA	+HA	+MA	+		6	0,00	-	/	/	-	
		+MA	+MA	+MA	+MA	+		10164	3,53	+	+HA	+MA	+	
		+MA	+MA	+MA	+MA	+		11196	3,89	+	+MA	+MA	+	
		+MA	+MA	+HA	+MA	+		10585	3,68	+	+HA	+MA	+	
4	3,16	+MA	+MA	+HA	+MA	+	5/6	10206	3,55	+	+MA	+HA	+	6/6
		∅	∅	-LE	-LE	-		10275	3,57	+	+HA	+HA	+	
		+MA	+MA	+MA	+MA	+		10470	3,64	+	+MA	+MA	+	
		+MA	+LA	+MA	+MA	+		10622	3,69	+	+MA	+HA	+	
		+MA	+MA	+MA	+MA	+		10839	3,77	+	+HA	+MA	+	
		+LA	+LA	+HA	+MA	+		11079	3,85	+	+HA	+HA	+	
5	4,55	+MB	+MB	+HB	+MB	+	6/6	11124	3,54	+	+MA	+MA	+	6/6
		+MB	+MB	+MB	+MB	+		8818	2,80	+	+MB	+LB	+	
		+MB	+MB	+HB	+MB	+		10067	3,20	+	+MA	+MA	+	
		+HB	+MB	+HB	+MB	+		10032	3,19	+	+MA	+MA	+	
		+MA	+MA	+HA	+MA	+		10380	3,30	+	+MA	+MA	+	
		+MB	+MB	+HB	+MB	+		8795	2,80	+	+MB	+LB	+	

## Dairy products : Raw milk

Spiked with *Listeria monocytogenes* 1/2 a (L37)

Total flora : 6.0 10<sup>4</sup> CFU/g

Level	CFU/25g	EN ISO 11290-1						Alternative method						
		Half-Fraser		Fraser		Results	Conclusion	VIDAS LMX			Confirmations		Result	Conclusion
		PAL	OAA	PAL	OAA			RFV	VT	Résultat test	OAA	RLM		
1	0,00	∅	∅	∅	-LE	-	0/6	3	0,00	-	/	/	-	0/6
		∅	∅	-LE	-LE	-		3	0,00	-	/	/	-	
		∅	∅	∅	∅	-		4	0,00	-	/	/	-	
		∅	∅	∅	∅	-		5	0,00	-	/	/	-	
		∅	∅	-LE	∅	-		2	0,00	-	/	/	-	
		∅	∅	∅	∅	-		3	0,00	-	/	/	-	
2	0,44	+LA	+LA	+MA	+MA	+	3/6	469	0,14	+	-ME	-LE	-	4/6 (1FP)
		∅	∅	∅	∅	-		9941	3,16	+	+MB	+HB	+	
		∅	∅	-LE	∅	-		10060	3,20	+	+MB	+HB	+	
		+LA	+LA	+MA	+MA	+		10333	3,29	+	+MA	+HB	+	
		∅	∅	∅	∅	-		10525	3,35	+	+MB	+MB	+	
		+LA	+LA	+MA	+MA	+		0	0,00	-	/	/	-	
3	0,87	+LA	+LA	+LB	+MB	+	4/6	10420	3,31	+	+MB	+HB	-	5/6
		+LA	+LA	+MB	+MB	+		4	0,00	-	/	/	-	
		+LA	+LA	+MA	+MB	+		10407	3,31	+	+MB	+HB	+	
		∅	∅	∅	∅	-		10750	3,42	+	+MB	+HB	+	
		∅	∅	-LE	-LE	-		11297	3,59	+	+MA	+HB	+	
		+LA	+LA	+MA	+MB	+		11277	3,59	+	+MB	+MB	+	
4	1,48	+LA	+LA	+MA	+MB	+	5/6	10148	3,23	+	+MB	+HB	+	5/6
		+LA	+LA	+MA	+MB	+		10095	3,21	+	+HB	+HB	+	
		+LA	+MA	+MA	+MB	+		10228	3,25	+	+MB	+HB	+	
		∅	∅	∅	∅	-		4	0,00	-	/	/	-	
		+LA	+LA	+MB	+MB	+		10388	3,30	+	+MB	+HB	+	
		+LA	+MA	+MA	+MB	+		10514	3,34	+	+MB	+HB	+	
5	3,49	+LA	+MA	+MB	+MB	+	6/6	9700	3,09	+	+MA	+MB	+	6/6
		+LA	+MA	+MB	+MB	+		9944	3,16	+	+MB	+HB	+	
		+LA	+LA	+MB	+MB	+		9983	3,18	+	+MB	+HB	+	
		+MA	+MA	+HB	+MB	+		10290	3,27	+	+MB	+HB	+	
		+MA	+MA	+MB	+MB	+		10376	3,30	+	+MA	+MB	+	
		+LA	+MA	+MB	+MB	+		10450	3,32	+	+MB	+HB	+	

## Dairy products : Raw milk cheese

Spiked with *Listeria monocytogenes* 1/2 a (L37)

Total flora : \*3.0 10<sup>8</sup> CFU/g \*\*7.6 10<sup>7</sup> CFU/g

Level	CFU/25g	EN ISO 11290-1					Alternative method							
		Half-Fraser		Fraser		Results	Conclusion	VIDAS LMX			Confirmations		Result	Conclusion
		PAL	OAA	PAL	OAA			RFV	VT	Test result	OAA	RLM		
1*	0,00	ME	-LE	-LE	-LE	-	0/6	6	0,00	-	-ME	-LE	-	0/6
		-LE	-LE	Ø	Ø	-		135	0,04	-	-ME	-LE	-	
		-LE	-LE	-LE	-ME	-		4	0,00	-	-ME	-LE	-	
		-ME	Ø	Ø	Ø	-		6	0,00	-	-ME	-LE	-	
		-ME	Ø	Ø	Ø	-		5	0,00	-	-ME	-LE	-	
		-ME	Ø	Ø	Ø	-		5	0,00	-	-ME	-ME	-	
2*	0,25	Ø	Ø	Ø	Ø	-	1/6	10880	3,16	+	+MA	+MA	+	1/6
		-LE	-LE	Ø	Ø	-		111	0,03	-	-LE	Ø	-	
		+MA	+MA	+MA	+MA	+		-2	0,00	-	-ME	-LE	-	
		-LE	Ø	Ø	Ø	-		2	0,00	-	-ME	-LE	-	
		-ME	Ø	Ø	Ø	-		2	0,00	-	-LE	-LE	-	
		ME	-LE	Ø	Ø	-		3	0,00	-	-ME	-ME	-	
3*	0,50	-LE	Ø	Ø	-LE	-	2/6	10229	2,97	+	+MB	+MB	+	2/6
		-LE	Ø	Ø	Ø	-		3	0,00	-	-LE	-LE	-	
		-LE	Ø	Ø	Ø	-		3	0,00	-	-LE	-LE	-	
		+MA	+MA	+MA	+MA	+		11506	3,34	+	+MA	+MA	+	
		+LA	+LA	+MA	+MA	+		2	0,00	-	-LE	-LE	-	
		-ME	Ø	Ø	Ø	-		1	0,00	-	-ME	-ME	-	
4*	0,91	+MA	+MA	+MA	+MA	+	4/6	6	0,00	-	-ME	-ME	-	5/6
		+MB	+MA	+MA	+MA	+		8198	2,38	+	+MA	+MA	+	
		-ME	Ø	Ø	Ø	-		11058	3,21	+	+HA	+MA	+	
		+MB	+MA	+MA	+MA	+		11417	3,31	+	+MA	+MA	+	
		-LE	Ø	Ø	Ø	-		11859	3,44	+	+MB	+MB	+	
		+MB	+MB	+MA	+MA	+		12245	3,55	+	+MA	+MA	+	
5**	4,47	+MA	+MA	+MA	+MA	+	6/6	10354	3,00	+	+MA	+MA	+	6/6
		+MA	+MA	+MA	+MA	+		10705	3,10	+	+MA	+MA	+	
		+MA	+MA	+HA	+MA	+		10555	3,02	+	+HA	+HA	+	
		+MA	+MA	+HA	+MA	+		10788	3,13	+	+MA	+HA	+	
		+MA	+MA	+HA	+MA	+		11875	3,44	+	+MA	+HA	+	
		+MA	+MA	+HA	+MA	+		11008	3,19	+	+HA	+HA	+	

## Seafood products : Smoked salmon

Spiked with *Listeria monocytogenes* 1/2 a (L5)

Total flora : 1.5 10<sup>7</sup> CFU/g

Level	CFU/25g	EN ISO 11290-1						Alternative method						
		Half-Fraser		Fraser		Results	Conclusion	VIDAS LMX			Confirmations		Result	Conclusion
		PAL	OAA	PAL	OAA			RFV	VT	Test result	OAA	RLM		
1	0,00	∅	-LE	-LE	-LE	-	0/6	12	0,00	-	/	/	-	0/6
		-LE	-LE	-LE	∅	-		30	0,00	-	/	/	-	
		-LE	-LE	-LE	-LE	-		12	0,00	-	/	/	-	
		-LE	-LE	-ME	-ME	-		11	0,00	-	/	/	-	
		-LE	-LE	∅	∅	-		10	0,00	-	/	/	-	
		-LE	-LE	-ME	-ME	-		13	0,00	-	/	/	-	
2	0,25	∅	∅	-LE	-LE	-	2/6	5	0,00	+	/	/	-	2/6
		+LA	+LA	+MA	+MA	+		8129	2,83	+	+MA	+MA	+	
		∅	∅	∅	-ME	-		5	0,00	-	/	/	-	
		∅	∅	-LE	-LE	-		5	0,00	-	/	/	-	
		+LA	+LA	+MA	+MA	+		12062	4,19	-	+MA	+HA	+	
		∅	∅	-LE	-LE	-		4	0,00	-	/	/	-	
3	0,88	∅	∅	∅	-ME	-	4/6	5	0,00	-	/	/	-	5/6
		+LA	+LA	+MA	+MA	+		11519	4,01	+	+HA	+HA	+	
		-LE	∅	-ME	-LE	-		1116	0,38	+	+MB	+MA	+	
		+LA	+LA	+MA	+MA	+		12258	4,26	+	+MA	+HA	+	
		+LA	+LA	+MA	+MA	+		12023	4,18	+	+HB	+HB	+	
		+LA	+LA	+MA	+MA	+		12261	4,26	+	+MA	+HA	+	
4	2,00	+MA	+MA	+MA	+MA	+	6/6	11022	3,83	+	+MA	+MA	+	6/6
		+MA	+MA	+MA	+MA	+		7345	2,55	+	+MA	+MA	+	
		+LA	+LA	+MA	+MA	+		10711	3,72	+	+MA	+HA	+	
		+MA	+MA	+MA	+MA	+		7172	2,49	+	+MA	+MA	+	
		+MA	+MA	+MA	+MA	+		11745	4,08	+	+MA	+MA	+	
		+LA	+LA	+MA	+MA	+		9137	3,18	+	+MA	+MA	+	

## Vegetal products : grated red cabbage

Spiked with *Listeria monocytogenes* 4 b (L58)

Total flora : 6.3 10<sup>8</sup> CFU/g

Level	CFU/25g	EN ISO 11290-1						Alternative method						
		Half-Fraser		Fraser		Half-Fraser PAL	Fraser OAA	Half-Fraser		Fraser		Half-Fraser OAA	Fraser PAL	
		PAL	OAA	PAL	OAA			PAL	OAA	PAL	OAA			
1	0,00	∅	∅	∅	∅	-	0/6	4	0,00	-	/	/	-	0/6
		∅	∅	∅	-LE	-		2	0,00	-	/	/	-	
		∅	∅	∅	∅	-		2	0,00	-	/	/	-	
		∅	∅	∅	∅	-		2	0,00	-	/	/	-	
		∅	∅	∅	∅	-		2	0,00	-	/	/	-	
		∅	∅	∅	∅	-		4	0,00	-	/	/	-	
2	0,30	∅	∅	∅	∅	-	1/6	4	0,00	-	/	/	-	1/6
		∅	∅	∅	∅	-		3	0,00	-	/	/	-	
		+LA	+LA	+MA	+MA	+		3	0,00	-	/	/	-	
		∅	∅	∅	∅	-		10826	3,10	+	+MA	+MA	+	
		∅	∅	∅	∅	-		5	0,00	-	/	/	-	
		∅	∅	∅	∅	-		3	0,00	-	/	/	-	
3	0,39	∅	-LE	-LE	-LE	-	3/6	2	0,00	-	/	/	-	2/6
		+LA	+LA	+MA	+MA	+		2051	0,58	+	+LA	+LA	+	
		+LA	+LA	+MA	+MA	+		10340	2,96	+	+MA	+MA	+	
		∅	∅	∅	-LE	-		2	0,00	-	/	/	-	
		∅	∅	∅	∅	-		2	0,00	-	/	/	-	
		+LA	+LA	+MA	+LA	+		3	0,00	-	/	/	-	
4	0,90	+LA	+LA	+MA	+MA	+	4/6	3	0,00	-	/	/	-	3/6
		+LA	+LA	+MA	+MA	+		2	0,00	-	/	/	-	
		∅	∅	∅	∅	-		9680	2,77	+	+MA	+HA	+	
		+LA	+LA	+MA	+MA	+		5	0,00	-	/	/	-	
		∅	∅	∅	∅	-		9577	2,74	+	+MA	+HA	+	
		+LA	+LA	+MA	+MA	+		10231	2,93	+	+MA	+HA	+	
5	1,54	+LA	+LA	+MA	+LA	+	6/6	10784	3,08	+	+MA	+MA	+	6/6
		+MA	+MA	+HA	+MA	+		10208	2,92	+	+MA	+MA	+	
		+LA	+LA	+MA	+MA	+		10954	3,13	+	+MA	+HA	+	
		+LA	+LA	+MA	+MA	+		11078	3,17	+	+MA	+HA	+	
		+LA	+LA	+MA	+MA	+		11429	3,27	+	+MA	+HA	+	
		+LA	+MA	+MA	+MA	+		11570	3,31	+	+MA	+MA	+	

## Environmental samples : process water

Spiked with *Listeria monocytogenes* ½ c(L28)

Total flora : 5.0 10<sup>5</sup> CFU/g

Level	CFU/25g	EN ISO 11290-1						Alternative method						
		Half-Fraser		Fraser		Half-Fraser PAL	Fraser OAA	Half-Fraser		Fraser			Half-Fraser OAA	Fraser PAL
		PAL	OAA	PAL	OAA			PAL	OAA	PAL	OAA	PAL		
1	0,00	∅	∅	∅	∅	-	0/6	3	0,00	-	/	/	-	0/6
		∅	∅	∅	∅	-		3	0,00	-	/	/	-	
		∅	∅	∅	∅	-		3	0,00	-	/	/	-	
		∅	∅	∅	∅	-		4	0,00	-	/	/	-	
		∅	∅	∅	∅	-		4	0,00	-	/	/	-	
		∅	∅	∅	∅	-		4	0,00	-	/	/	-	
	0,21	∅	∅	∅	∅	-	1/6	4	0,00	-	/	/	-	3/6
		∅	-LE	∅	∅	-		11224	3,57	+	+MA	+MA	+	
		∅	∅	-ME	-LE	-		3	0,00	-	/	/	-	
		∅	∅	∅	∅	-		5	0,00	-	/	/	-	
		+LA	+LA	+MA	+MA	+		11222	3,57	+	+MA	+MA	+	
		∅	∅	-LE	-LE	-		11359	3,67	+	+MA	+MA	+	
2	0,34	∅	∅	-LE	∅	-	3/6	10295	3,58	+	+MA	+MA	+	4/6
		∅	∅	-LE	∅	-		4	0,00	-	/	/	-	
		∅	∅	∅	∅	-		10160	3,53	+	+MA	+MA	+	
		+LA	+LA	+MA	+MA	+		10893	3,79	+	+MA	+MA	+	
		+LA	+LA	+MA	+MA	+		10463	3,64	+	+MA	+MA	+	
		+LA	+LA	+HA	+MA	+		6	0,00	-	/	/	-	
4	0,83	+MA	+LA	+HA	+MA	+	5/6	4	0,00	-	/	/	-	4/6
		∅	∅	∅	∅	-		10948	3,81	+	+MA	+MA	+	
		+LA	+LA	+MA	+MA	+		5	0,00	-	/	/	-	
		+LA	+LA	+MA	+MA	+		11515	4,00	+	+MA	+MA	+	
		+MA	+MA	+MA	+MA	+		11256	3,91	+	+MA	+MA	+	
		+MA	+LA	+HA	+MA	+		11052	3,84	+	+MA	+MA	+	
5	1,96	+MA	+MA	+MA	+MA	+	5/6	8983	3,12	+	+MA	+MA	+	6/6
		+MA	+LA	+MA	+MA	+		9189	3,19	+	+HA	+MA	+	
		+MA	+MA	+HA	+MA	+		9305	3,23	+	+MA	+HA	+	
		∅	∅	∅	∅	-		9685	3,37	+	+MA	+MA	+	
		+MA	+LA	+MA	+MA	+		9869	3,43	+	+MA	+MA	+	
		+MA	+MA	+MA	+MA	+		9924	3,45	+	+MA	+MA	+	
Level	CFU/25g	EN ISO 11290-1						Alternative method						
		Half-Fraser		Fraser		Half-Fraser PAL	Fraser OAA	Half-Fraser		Fraser			Half-Fraser OAA	Fraser PAL
		PAL	OAA	PAL	OAA			PAL	OAA	PAL	OAA	PAL		
6	2,35	+MA	+LA	+HB	+MB	+	6/6	9975	3,17	+	+MA	+MA	+	6/6
		+MB	+MB	+MB	+MB	+		9949	3,16	+	+MA	+MA	+	
		+MB	+MB	+MB	+MB	+		10203	3,25	+	+MA	+MA	+	
		+MA	+MA	+MB	+MB	+		10291	3,27	+	+MA	+MA	+	
		+MA	+LA	+MB	+MB	+		10562	3,36	+	+MA	+MA	+	
		+MB	+MB	+HB	+MA	+		10511	3,34	+	+MA	+MA	+	

## RLOD: composite foods (2017 study)

### Raw results

#### Caption :

ST : sample type  
SN : sample number  
# : sample identity  
∅ : level determined by 3 to 5 enumerations  
sp : spiking  
se : seeding  
nc : naturally contaminated  
cm: contamination by mixture  
+ / Pos : positive result  
- / Neg : negative result  
/ : test not realized  
∅ : absence of colonies  
PA : positive agreement  
NA : negative agreement  
PD : positive deviation  
ND : negative deviation  
FN : false negative result  
FP : false positive result  
PP: presumed positive result before confirmation  
A : absence  
P : presence  
0 / 1 / 2 / 3 / 4 : level of typical flora, from absence to high  
∅ / L / M / H : level of annex flora, from absence to high  
h+/h-: oresence or absence of halo  
I : result after re-isolation  
(XXX) : number of typical colonies

Total flora : 3.0 10<sup>4</sup> CFU/g

Category	#	Sample	Contamination			RM: NF EN ISO 11290-1						AM: Vidas LMX				Number of positive results per method	
			Strain	Type	Level (CFU/25 g)	Half Fraser		Fraser		Confir- mation	Final result	Vidas LMX		Conf. 1	Conf. 2 after purif.		Final result
						O&A	PALCAM	O&A	PALCAM			VT	Result				
Composite foods	T01	Mixed salad	/	/	/	0;M	0;M	/	/	/	A	0.00	-	0;M	/	A	RM: 0/5
	T02					0;M	0;M	/	/	/	A	0.00	-	0;M	/	A	
	T03					0;M	0;M	/	/	/	A	0.00	-	0;L	/	A	
	T04					0;M	0;L	/	/	/	A	0.00	-	0;Ø	/	A	
	T05					0;M	0;M	/	/	/	A	0.00	-	0;M	/	A	
	M1		LIS.4.5	se	0.5	0;L	0;L	0;M	0;H	A	A	3.35	+	3h+;Ø	/	P	RM: 3/20
	M2					0;L	0;L	0;M	0;H	A	A	0.00	-	0;L	/	A	
	M3					0;L	0;L	0;M	0;H	A	A	0.00	-	0;L	/	A	
	M4					0;Ø	0;L	0;M	0;H	A	A	0.01	+	1h+;L	/	P	
	M5					0;Ø	0;L	0;M	0;H	A	A	0.00	-	0;L	/	A	
	M6					0;Ø	0;L	0;M	0;H	A	A	0.00	-	0;L	/	A	
	M7					0;L	0;L	0;M	0;M	A	A	0.07	+	1h+;L	/	P	
	M8					0;L	0;L	0;M	0;H	A	A	0.00	-	0;L	/	A	
	M9					0;L	0;L	0;M	0;M	A	A	0.00	-	0;L	/	A	
	M10					0;Ø	0;L	0;M	0;H	A	A	0.00	-	0;L	/	A	
	M11				2h+;Ø	2;Ø	2h+;Ø	3;M	P	P	0.00	-	0;Ø	/	A	AM: 9/20	
	M12				2h+;Ø	2;Ø	2h+;Ø	3;L	P	P	0.00	-	0;Ø	/	A		
	M13				0;L	0;L	0;M	0;H	A	A	3.15	+	2h+;Ø	/	P		
	M14				0;L	0;L	0;L	0;H	A	A	0.00	-	0;L	/	A		
	M15				0;L	0;L	0;M	0;H	A	A	0.06	+	1h+;Ø	/	P		
	M16	2h+;Ø			2;L	2h+;Ø	3;M	P	P	0.00	-	0;M	/	A			
	M17	0;Ø			0;L	0;H	0;H	A	A	0.00	-	0;L	/	A			
	M18	0;L			0;L	0;M	0;H	A	A	3.05	+	2h+;Ø	/	P			
	M19	0;L			0;L	0;M	0;H	A	A	3.25	+	2h+;Ø	/	P			
	M20	0;Ø			0;L	0;M	0;H	A	A	3.16	+	2h+;Ø	/	P			
FR1	3.6	1h+;Ø	1;L	3h+;Ø	3M	P	P	1.84	+	2h+;Ø	/	P	RM: 5/5				
FR2		1h+;Ø	1;L	3h+;Ø	3M	P	P	0.07	+	1h+;Ø	/	P					
FR3		1h+;Ø	1;L	3h+;Ø	3M	P	P	1.36	+	2h+;Ø	/	P					
FR4		1h+;Ø	1;L	3h+;Ø	3M	P	P	1.31	+	1h+;Ø	/	P					
FR5		1h+;Ø	1;L	3h+;Ø	3M	P	P	2.57	+	2h+;Ø	/	P		AM: 5/5			

Total flora : 3.0 10<sup>4</sup> CFU/g

Category	#	Sample	Contamination			RM: NF EN ISO 11290-1						AM: Vidas LMX						Number of positive results per method	
			Strain	Type	Level (CFU/25 g)	Half Fraser		Fraser		Confirmation	Final result	Vidas LMX		Confirmation 1		Confirmation 2			Final result
						O&A	Palcam	O&A	Palcam			VT	Results	O&A	ChromID L.mono	Identification			
Composite foods	O1	Salad of pasta	/	/	/	0h+L	0h-L	0h+H	0h-L	/	A	0,00	A	0LØ	0LØ	/	A	RM : 0/5	
	O2					0h+L	0h-L	0h+H	0h-L	/	A	0,00	A	0LØ	0LØ	/	A		
	O3					0h+L	0h-L	0h+H	0h-L	/	A	0,00	A	0Ø	0Ø	/	A		
	O4					0h+L	0h-L	0h+H	0h-L	/	A	0,00	A	0LØ	0LØ	/	A		
	O5					0h+L	0h-L	0h+H	0h-L	/	A	0,00	A	0Ø	0LØ	/	A		
	f1		LIS.4.46	se	0,8	2h+L	2h-L	3h+H	3h-H	L.m	P	2,68	P	3h+Ø	4L	L.m	P	RM : 15/20	
	f2					3h+L	3h-L	3h+L	3h-L	L.m	P	2,72	P	3h+Ø	3Ø	L.m	P		
	f3					1h+H	1h-M	3h+L	3h-M	L.m	P	0	A	0LØ	0LØ	/	A		
	f4					3h+L	3h-H	3h+L	3h-H	L.m	P	2,72	P	4h+L	4Ø	L.m	P		
	f5					2h+L	2h-L	4h+L	4h-L	L.m	P	2,70	P	4h+L	3L	L.m	P		
	f6					3h+M	3h-M	3h+L	3h-M	L.m	P	2,69	P	3h+L	3Ø	L.m	P		
	f7					3h+L	3h-L	4h+L	3h-L	L.m	P	2,76	P	3h+L	3L	L.m	P		
	f8					0h+L	0h-L	0h+M	0h-L	/	A	2,71	P	4h+L	4L	L.m	P		
	f9					2h+L	3h-L	3h+L	3h-M	L.m	P	0	A	0LØ	0LØ	/	A		
	f10					0h+M	0h-H	0h+M	0h-L	/	A	0	A	0LØ	0LØ	/	A		
	f11					0h+L	0h-L	0h+M	0h-L	/	A	2,60	P	4h+L	4L	L.m	P		
	f12					2h+L	1h-L	4h+L	3h-M	L.m	P	2,76	P	3h+L	3L	L.m	P		
	f13					0h+L	0h-L	0h+M	0h-L	/	A	2,66	P	4h+L	4L	L.m	P		
	f14					3h+L	3h-L	4h+L	3h-M	L.m	P	0	A	0LØ	0LØ	/	A		
	f15					3h+L	2h-L	3h+L	3h-M	L.m	P	0	A	0LØ	0LØ	/	A		
	f16					3h+L	2h-L	4h+L	3h-L	L.m	P	2,66	P	3h+Ø	4Ø	L.m	P		
	f17					2h+L	1h-L	4h+L	3h-L	L.m	P	2,66	P	3h+Ø	4Ø	L.m	P		
	f18					0h+M	0h-L	0h+M	0h-L	/	A	0	A	0LØ	0LØ	/	A		
	f19					3h+L	2h-L	3h+L	3h-L	L.m	P	2,66	P	4h+L	4L	L.m	P		
	f20					2h+L	2h-M	4h+L	3h-H	L.m	P	2,70	P	3h+Ø	3Ø	L.m	P		
	F1		3	3h+L	3h-H	3h+L	3h-H	L.m	P	2,72	P	4h+L	4L	L.m	P	RM 5/5			
	F2			2h+L	3h-L	2h+L	2h-L	L.m	P	2,74	P	4h+M	4L	L.m	P				
	F3			1h+M	3h-M	3h+L	3h-M	L.m	P	2,69	P	4h+L	4L	L.m	P				
F4	3h+L	3h-L		3h+L	2h-L	L.m	P	2,77	P	4h+L	4L	L.m	P						
F5	3h+L	3h-M		4h+L	3h-L	L.m	P	2,71	P	4h+Ø	4Ø	L.m	P						

## **APPENDIX 5**

### **Inclusivity and exclusivity**

## Inclusivity study

Reference	Strain	Origin	inoculation level CFU/225ml LMX broth	RFV	TV	Test result	Isolation		inoculation level CFU/225ml LMX broth + 25ml UHT milk	RFVF	TV	Test result
							OAA	RLM				
L4	<i>Listeria monocytogenes</i> 1/2a	ATCC 35152	14,8	10265	2,94	+	+MA	+HA	14,8	10220	2,92	+
L5	<i>Listeria monocytogenes</i> 1/2a	Smoked salmon bacon	3,8	4978	1,54	+	+MA	+HA	3,8	11532	3,57	+
L6	<i>Listeria monocytogenes</i> 1/2a	Pizza	5,2	586	0,18	+	+LA	+LA				
L7	<i>Listeria monocytogenes</i> 1/2a	Munster crust	4	797	0,24	+	+MA	+MA				
L9	<i>Listeria monocytogenes</i> 1/2a	Munster crust	6,3	9151	2,82	+	+MA	+LA				
L10	<i>Listeria monocytogenes</i> 1/2a	Rillettes	4	276	0,08	+	+MA	+MA	4	11393	3,52	+
L11	<i>Listeria monocytogenes</i> 1/2a	Munster crust	5	8615	2,66	+	+MA	+MA				
L12	<i>Listeria monocytogenes</i> 1/2a	Smoked salmon	6,5	1273	0,39	+	+LA	+LA				
L13	<i>Listeria monocytogenes</i> 1/2b	Pig ear	3,7	207	0,06	+	+MA	+MA	3,7	11516	3,56	+
L14	<i>Listeria monocytogenes</i> 1/2c	Chopped steak	6,2	596	0,18	+	+LA	+LA				
<b>L15</b>	<b><i>Listeria monocytogenes</i> 1/2c</b>	<b>Beef MP</b>	<b>4,7</b>	<b>109</b>	<b>0,03</b>	<b>-</b>	<b>+MA</b>	<b>+MA</b>	<b>4,7</b>	<b>11720</b>	<b>3,62</b>	<b>+</b>
L16	<i>Listeria monocytogenes</i> 1/2c	Minced meat	1	454	0,14	+	+LA	+LA				
L17	<i>Listeria monocytogenes</i> 1/2c	Chest	4,7	374	0,11	+	+LA	+LA				
L18	<i>Listeria monocytogenes</i> 1/2c	Munster crust	4,5	467	0,14	+	+LA	+LA				
L20	<i>Listeria monocytogenes</i> 1/2	Smoked salmon pieces	4,4	11186	3,89	+	+MA	+MA	4,4	10390	3,61	+
L25	<i>Listeria monocytogenes</i> 1/2	Hen	19,5	3528	1,10	+	+LA	+MA				
L28	<i>Listeria monocytogenes</i> 1/2c	Surface sponge	4,3	10225	3,16	+	+MA	+HA	4,3	10101	3,12	+
L32	<i>Listeria monocytogenes</i> 4b	Munster	19,5	10757	3,36	+	+MA	+MA				
L33	<i>Listeria monocytogenes</i> 4b	ATCC 19115	16,5	10701	3,34	+	+MA	+MA				
L37	<i>Listeria monocytogenes</i> 1/2b	Raw milk maroille	15	11679	3,64	+	+MA	+MA				
L39	<i>Listeria monocytogenes</i>	Ham dry sausage	17,2	12106	3,78	+	+MA	+MA				

Reference	Strain	Origin	inoculation level CFU/225ml LMX broth	RFV	TV	Test result	Isolation		inoculation level CFU/225ml LMX broth + 25ml UHT milk	RFVF	TV	Test result
							OAA	RLM				
L40	<i>Listeria monocytogenes</i> 1/2a	Munster farmer	18,7	1432	0,44	+	+MA	+MA				
L42	<i>Listeria monocytogenes</i> 1/2a	Chicken breast	18	10268	3,20	+	+MA	+MA				
L43	<i>Listeria monocytogenes</i> 1/2a	Chopped steak	15	4700	1,46	+	+MA	+MA				
L44	<i>Listeria monocytogenes</i> 1/2a	Sausage	4,6	10362	3,20	+	+HA	+HA	4,6	10267	3,17	+
L45	<i>Listeria monocytogenes</i> 1/2a	Rabbit and hazelnut terrine	15	9008	2,81	+	+MA	+MA				
L47	<i>Listeria monocytogenes</i> 1/2a	Hash browns	6,8	10581	3,27	+	+MA	+MA	6,8	10359	3,2	+
L48	<i>Listeria monocytogenes</i> 1/2b	Pork tongue	5,9	11083	3,46	+	+LA	+LA				
L49	<i>Listeria monocytogenes</i> 1/2b	Poultry liver cream	6,6	10308	3,22	+	+MA	+HA				
L51	<i>Listeria monocytogenes</i> 1/2b	Germain matured	6,4	10947	3,41	+	+MA	+MA				
L52	<i>Listeria monocytogenes</i> ½ b	SLCC 2755	6	2283	0,71	+	+LA	+LA				
L53	<i>Listeria monocytogenes</i> 1/2c	Chopped steak	4,7	10709	3,31	+	+MA	+MA	4,7	10420	3,22	+
L54	<i>Listeria monocytogenes</i> 1/2c	Beef bourguignon	6,6	313	0,09	+	+LA	+LA				
L55	<i>Listeria monocytogenes</i> 3b	SLCC 2540	10,5	11361	3,54	+	+MA	+MA				
L56	<i>Listeria monocytogenes</i> 3c	SLCC 2479	5,9	253	0,07	+	+LA	+LA				
L57	<i>Listeria monocytogenes</i> 4a	ATCC 19114	3,2	12145	3,76	+	+MA	+MA	3,2	10996	3,4	+
L58	<i>Listeria monocytogenes</i> 4b	Salad	7,2	10622	3,31	+	+MA	+MA				
L60	<i>Listeria monocytogenes</i> 4d	ATCC 19117	9,3	10294	3,21	+	+MA	+MA				
L61	<i>Listeria monocytogenes</i> 4e	ATCC 19118	4,8	2786	0,87	+	+LA	+LA				
L62	<i>Listeria monocytogenes</i> 4e	Reblochon	3,9	11095	3,43	+	+MA	+MA	3,9	9830	3,04	+
L63	<i>Listeria monocytogenes</i> 4e	Munster	4	10053	3,11	+	+MA	+MA	4	10030	3,1	+
L67	<i>Listeria monocytogenes</i> 7	SLCC 2482	4,4	10053	3,11	+	+HA	+HA	4,4	10223	3,16	+
L69	<i>Listeria monocytogenes</i>	Sausage	6	10310	3,58	+	+MA	+MA	6	11330	3,94	+
L 70	<i>Listeria monocytogenes</i>	Salmon Ireland	7,7	10439	3,63	+	+MA	+HA	7,7	10033	3,449	+

Reference	Strain	Origin	inoculation level CFU/225ml LMX broth	RFV	TV	Test result	Isolation		inoculation level CFU/225ml LMX broth + 25ml UHT milk	RFVF	TV	Test result
							OAA	RLM				
L116	<i>Listeria monocytogenes</i> 1/2a	Fish shell	5,5	10518	3,66	+	+MA	+MA	5,5	9993	3,47	+
L117	<i>Listeria monocytogenes</i> 1/2c	Montbéliard sausage	6,9	10698	3,72	+	+MA	+MA	6,9	10111	3,52	+
L119	<i>Listeria monocytogenes</i>	Spinach	17,2	10138	3,52	+	+MA	+MA	17,2	10667	3,71	+
L121	<i>Listeria monocytogenes</i>	Neufchâtel cheese	17,5	1284	0,44	+	+MA	+MA	17,5	10944	3,81	+
L123	<i>Listeria monocytogenes</i>	Mozzarella	15,8	9743	3,39	+	+MA	+MA	15,8	11891	4,14	+
L124	<i>Listeria monocytogenes</i>	Perch fillet	17,8	160	0,05	+	+LA	+LA	17,8	597	0,2	+
L125	<i>Listeria monocytogenes</i>	Fried vegetables	15,3	10313	3,59	+	+MA	+MA	15,3	9917	3,45	+
L128	<i>Listeria monocytogenes</i> 1/2a	Soybean meal	13,8	11399	3,96	+	+MA	+MA	13,8	9747	3,39	+
L129	<i>Listeria monocytogenes</i> 1/2a	Hash browns	2,9	11879	4,13	+	+MA	+MA	2,9	10140	3,53	+
L130	<i>Listeria monocytogenes</i>	Chopped steak	15,3	1517	0,52	+	+LA	+LA	15,3	10105	3,51	+
L137	<i>Listeria monocytogenes</i>	Coulommier raw milk	13	689	0,23	+	+MA	+MA	13	6582	2,29	+
L141	<i>Listeria monocytogenes</i>	Environmental levy	15,8	11331	3,94	+	+MA	+MA	15,8	10661	3,71	+
L149	<i>Listeria monocytogenes</i>	Environmental levy	12,3	245	0,08	+	+LA	+LA	12,3	8121	2,82	+
L152	<i>Listeria monocytogenes</i>	Environmental levy	11,3	1510	0,52	+	+MA	+MA	11,3	8429	2,93	+
L156	<i>Listeria monocytogenes</i>	French fries	10,3	11018	3,83	+	+MA	+MA	10,3	11527	4,01	+
L176	<i>Listeria monocytogenes</i>	Beef steak	9,3	54	0,01	-	+LA	+LA	9,3	11266	3,92	+

## Exclusivity study

Reference	Strain	Origin	Inoculation level in non selective broth CFU/225ml	Water bath			Heat&Go			Isolation	
				RFV	TV	Result	RFV	TV	Result	OAA	RLM
BA2	<i>Bacillus cereus</i>	Betteraves	4,50E+05	65	0,02	-	85	0	-	/	/
BA24	<i>Bacillus mycoïdes</i>	Prélèvement environnement	5,70E+05	136	0,04	-				∅	∅
BA4	<i>Bacillus stearothermophilus</i>	Produit laitier	3,80E+05	18	0,00	-	11	0	-	/	/
BA5	<i>Bacillus sphaericus</i>	Produit carné	7,20E+05 6,40E+05	74 230	0,02 0,07	- +	173	0,1	+	/ ∅	/ ∅
E3	<i>Streptococcus bovis</i>	Collection	5,60E+05	3	0,00	-	8	0	-	/	/
E8	<i>Enterococcus durans</i>	Produit carné	4,60E+05	17	0,00	-	10	0	-	/	/
E17	<i>Streptococcus equinus</i>	Collection	6,00E+04	3	0,00	-	4	0	-	/	/
E6	<i>Enterococcus faecalis</i>	Collection ATCC 19433	7,50E+05	32	0,00	-	35	0	-	/	/
E7	<i>Enterococcus faecium</i>	Collection CIP 5433	8,40E+04	3	0,00	-	3	0	-	/	/
E14	<i>Streptococcus anginosus</i>	Collection	1,50E+05	3	0,00	-	4	0	-	/	/
33	<i>Lactobacillus casei</i>	Produit laitier	4,50E+05	14	0,00	-	5	0	-	/	/
L139	<i>Jonesia denitrificans</i>	Collection	1,70E+05	4	0,00	-				-LE	∅
ST26	<i>Staphylococcus intermedius</i>	Collection	7,00E+04	335	0,10	+				∅	∅
ST17	<i>Staphylococcus aureus</i>	Yaourt glacé	3,90E+05	325	0,10	+				∅	∅
ST3	<i>Staphylococcus epidermidis</i>	Yaourt	3,30E+05	36	0,01	-				∅	∅
M1	<i>Micrococcus</i>	Environnement	3,00E+04	1	0,00	-	2	0	-	/	/
L 140	<i>Listeria seeligeri</i>	Frites surgelées	1,00E+05	19	0,00	-				-LE	-LE
L 147	<i>Listeria grayi</i>	ATCC 25 401	3,40E+04	4	0,00	-				-LA	-MA
L 148	<i>Listeria seeligeri</i>	Prélèvement environnement	4,00E+04	7	0,00	-	5	0	-	-LE	-LE
L 155	<i>Listeria welshimeri</i>	Filet de saumon	1,70E+05	103	0,03	-	141	0,1	-	-ME	-ME
L 157	<i>Listeria ivanovii spp. ivanovii</i>	Collection	1,40E+05	14	0,00	-				-LE	-LE
L179	<i>Listeria ivanovii</i>	Prélèvement environnement	1,10E+05	11	0,00	-	26	0	-	-ME	-ME
L170	<i>Listeria ivanovii</i>	Collection	1,20E+05	41	0,01	-	96	0	-	/	/
L64	<i>Listeria innocua</i>	Epoisses	1,20E+05	140	0,04	-				-ME	-ME
L76	<i>Listeria innocua 6b</i>	Steak haché	6,00E+04	132	0,04	-				-ME	-ME
L80	<i>Listeria ivanovii</i>	Collection	1,70E+05	25	0,00	-	51	0	-	-ME	-ME
L83	<i>Listeria seeligeri 1/2b</i>	Langue	1,40E+05	26	0,00	-	17	0	-	-ME	-ME
L91	<i>Listeria welshimeri</i>	Rosette Aoste	1,30E+05	61	0,02	-				-ME	-ME
L108	<i>Listeria innocua</i>	Gorgonzola	9,50E+04	111	0,03	-				-ME	-ME
L142	<i>Listeria seeligeri</i>	Fromage lait cru	1,70E+05	8	0,00	-	8	0	-	-LE	-LE
L151	<i>Listeria ivanovii</i>	Steak haché	9,50E+04	37	0,01	-	21	0	-	/	/

Reference	Strain	Inoculation level in non selective broth CFU/225ml	Reference method				result	Alternative method					
			half-Fraser		Fraser			VIDAS LMX			Confirmations		Final result
			PAL	OAA	PAL	OAA		RFV	VT	Result	OAA	RLM	
BA5	<i>Bacillus sphaericus</i>	3,30E+05	-LE	-LE	-LE	-LE	-	3	0,00	-	∅	∅	-
ST17	<i>Staphylococcus aureus</i>	5,50E+05	∅	∅	-LE	-LE	-	5	0,00	-	∅	∅	-
ST26	<i>Staphylococcus intermedius</i>	8,50E+04	∅	∅	-LE	-ME	-	3	0,00	-	∅	∅	-

## **APPENDIX 6**

### **Interlaboratory study raw results**

**Expert Lab.**

Code	Reference method ISO 11290-1					Comparison / expected result	Code	Alternative method: VIDAS LMX					Comparison / expected result
	half-Fraser		Fraser		Result			Test		Test result	Confirmation OAA	Result	
	O & A	Oxford	O & A	Oxford				RFV	TV				
27	-	-	-	-	-	=	5	2	0,00	-	-	-	=
28	-	-	-	-	-	=	6	2	0,00	-	-	-	=
35	-	-	-	-	-	=	9	2	0,00	-	-	-	=
36	-	-	-	-	-	=	10	2	0,00	-	-	-	=
41	-	-	-	-	-	=	13	2	0,00	-	-	-	=
42	-	-	-	-	-	=	14	2	0,00	-	-	-	=
43	-	-	-	-	-	=	19	2	0,00	-	-	-	=
44	-	-	-	-	-	=	20	1	0,00	-	-	-	=
29	+	+	+	+	+	=	3	10528	2,97	+	+	+	=
30	+	+	+	+	+	=	4	10808	3,05	+	+	+	=
31	+	+	+	+	+	=	11	33	0,00	-	1+	-	#
32	+	+	+	+	+	=	12	11493	3,24	+	+	+	=
39	+	+	+	+	+	=	17	10887	3,07	+	+	+	=
40	+	+	+	+	+	=	18	11528	3,25	+	+	+	=
45	+	+	+	+	+	=	23	9814	2,77	+	+	+	=
46	+	+	+	+	+	=	24	10411	2,94	+	+	+	=
25	+	+	+	+	+	=	1	12659	3,57	+	+	+	=
26	+	+	+	+	+	=	2	12408	3,50	+	+	+	=
33	+	+	+	+	+	=	7	10720	3,02	+	+	+	=
34	+	+	+	+	+	=	8	9545	2,69	+	+	+	=
37	+	+	+	+	+	=	15	11665	3,29	+	+	+	=
38	+	+	+	+	+	=	16	11761	3,32	+	+	+	=
47	+	+	+	+	+	=	21	10361	2,92	+	+	+	=
48	+	+	+	+	+	=	22	10372	2,92	+	+	+	=

TVC (CFU/mL) : 50 000

**Lab. A**

Code	Reference method ISO 11290-1					Comparison / expected result	Code	Alternative method VIDAS LMX				Comparison / expected result
	half-Fraser		Fraser		Result			Test	Test result	Confirmation OAA	Final result	
	O & A	Oxford	O & A	Oxford				TV				
27	-	-	-	-	-	=	5	0,00	-	-	-	=
28	-	-	-	-	-	=	6	0,00	-	-	-	=
35	-	-	-	-	-	=	9	0,00	-	-	-	=
36	-	-	-	-	-	=	10	0,00	-	-	-	=
41	-	-	-	-	-	=	13	0,00	-	-	-	=
42	-	-	-	-	-	=	14	0,00	-	-	-	=
43	-	-	-	-	-	=	19	0,00	-	-	-	=
44	-	-	-	-	-	=	20	0,00	-	-	-	=
29	+	+	+	+	+	=	3	2,51	+	+	+	=
30	+	+	+	+	+	=	4	2,50	+	+	+	=
31	+	+	+	+	+	=	11	2,57	+	+	+	=
32	+	+	+	+	+	=	12	2,57	+	+	+	=
39	+	+	+	+	+	=	17	2,52	+	+	+	=
40	+	+	+	+	+	=	18	2,51	+	+	+	=
45	+	+	+	+	+	=	23	2,69	+	+	+	=
46	+	+	+	+	+	=	24	2,71	+	+	+	=
25	+	+	+	+	+	=	1	2,35	+	+	+	=
26	+	-	+	+	+	=	2	2,55	+	+	+	=
33	+	+	+	+	+	=	7	2,39	+	+	+	=
34	+	-	+	+	+	=	8	1,94	+	+	+	=
37	+	+	+	+	+	=	15	2,45	+	+	+	=
38	+	+	+	+	+	=	16	1,60	+	+	+	=
47	+	+	+	+	+	=	21	2,51	+	+	+	=
48	+	+	+	+	+	=	22	2,64	+	+	+	=

TVC (CFU/mL) : <1

Lab. B

Code	Reference method ISO 11290-1					Comparison / expected result	Code	Alternative method VIDAS LMX				Comparison / expected result
	half-Fraser		Fraser		Result			Test TV	Test result	Confirmation OAA	Final result	
	O & A	OAA	O & A	OAA								
27	-	-	-	-	-	=	5	0,00	-	-	-	=
28	-	-	-	-	-	=	6	0,00	-	-	-	=
35	-	-	-	-	-	=	9	0,00	-	-	-	=
36	-	-	-	-	-	=	10	0,00	-	-	-	=
41	-	-	-	-	-	=	13	0,00	-	-	-	=
42	-	-	-	-	-	=	14	0,00	-	-	-	=
43	-	-	-	-	-	=	19	0,00	-	-	-	=
44	-	-	-	-	-	=	20	0,00	-	-	-	=
29	+	+	+	+	+	=	3	2,59	+	+	+	=
30	+	+	+	+	+	=	4	2,41	+	+	+	=
31	+	+	+	+	+	=	11	2,37	+	+	+	=
32	+	+	+	+	+	=	12	2,39	+	+	+	=
39	+	+	+	+	+	=	17	2,58	+	+	+	=
40	+	+	+	+	+	=	18	2,69	+	+	+	=
45	+	+	+	+	+	=	23	2,48	+	+	+	=
46	+	+	+	+	+	=	24	2,40	+	+	+	=
25	+	+	+	+	+	=	1	2,27	+	+	+	=
26	+	+	+	+	+	=	2	1,60	+	+	+	=
33	+	+	+	+	+	=	7	2,22	+	+	+	=
34	+	+	+	+	+	=	8	2,51	+	+	+	=
37	+	+	+	+	+	=	15	1,38	+	+	+	=
38	+	+	+	+	+	=	16	0,51	+	+	+	=
47	+	+	+	+	+	=	21	1,95	+	+	+	=
48	+	+	+	+	+	=	22	1,32	+	+	+	=

TVC (CFU/mL) : 1 900

Lab. C

Code	Reference method ISO 11290-1					Comparison / expected result	Code	Alternative method VIDAS LMX				Comparison / expected result
	half-Fraser		Fraser		Result			Test TV	Test result	Confirmation OAA	Final result	
	O & A	Oxford	O & A	Oxford								
27	-	-	-	-	-	=	5	0,00	-	-	-	=
28	-	-	-	-	-	=	6	0,00	-	-	-	=
35	-	-	-	-	-	=	9	0,00	-	-	-	=
36	-	-	-	-	-	=	10	0,00	-	-	-	=
41	-	-	-	-	-	=	13	0,00	-	-	-	=
42	-	-	-	-	-	=	14	0,00	-	-	-	=
43	-	-	-	-	-	=	19	0,00	-	-	-	=
44	-	-	-	-	-	=	20	0,00	-	-	-	=
29	+	+	+	+	+	=	3	2,31	+	+	+	=
30	+	+	+	+	+	=	4	2,18	+	+	+	=
31	+	+	+	+	+	=	11	2,34	+	+	+	=
32	+	+	+	+	+	=	12	2,20	+	+	+	=
39	+	+	+	+	+	=	17	2,49	+	+	+	=
40	+	+	+	+	+	=	18	2,49	+	+	+	=
45	+	+	+	+	+	=	23	2,55	+	+	+	=
46	+	+	+	+	+	=	24	2,45	+	+	+	=
25	+	+	+	+	+	=	1	2,62	+	+	+	=
26	+	+	+	+	+	=	2	2,55	+	+	+	=
33	+	+	+	+	+	=	7	2,57	+	+	+	=
34	+	+	+	+	+	=	8	2,61	+	+	+	=
37	+	+	+	+	+	=	15	1,98	+	+	+	=
38	+	+	+	+	+	=	16	2,43	+	+	+	=
47	+	+	+	+	+	=	21	2,73	+	+	+	=
48	+	+	+	+	+	=	22	2,71	+	+	+	=

TVC (CFU/mL) : 1200

Lab. D

Code	Reference method ISO 11290-1					Comparison / expected result	Code	Alternative method VIDAS LMX				Comparison / expected result
	half-Fraser		Fraser		Result			Test TV	Test result	Confirmation Chrom ID OAA	Final result	
	O & A	Oxford	O & A	Oxford								
27	-	-	-	-	-	=	5	0,00	-	-	-	=
28	-	-	-	-	-	=	6	0,00	-	-	-	=
35	-	-	-	-	-	=	9	0,00	-	-	-	=
36	-	-	-	-	-	=	10	0,00	-	-	-	=
41	-	-	-	-	-	=	13	0,00	-	-	-	=
42	-	-	-	-	-	=	14	0,00	-	-	-	=
43	-	-	-	-	-	=	19	0,00	-	-	-	=
44	-	-	-	-	-	=	20	0,00	-	-	-	=
29	+	+	+	+	+	=	3	3,32	+	+	+	=
30	+	+	+	+	+	=	4	3,38	+	+	+	=
31	+	+	+	+	+	=	11	3,41	+	+	+	=
32	+	+	+	+	+	=	12	3,33	+	+	+	=
39	+	+	+	+	+	=	17	3,33	+	+	+	=
40	+	+	+	+	+	=	18	3,01	+	+	+	=
45	+	+	+	+	+	=	23	3,35	+	+	+	=
46	+	+	+	+	+	=	24	3,44	+	+	+	=
25	+	+	+	+	+	=	1	2,41	+	+	+	=
26	+	+	+	+	+	=	2	2,92	+	+	+	=
33	+	+	+	+	+	=	7	1,75	+	+	+	=
34	+	+	+	+	+	=	8	1,43	+	+	+	=
37	+	+	+	+	+	=	15	1,30	+	+	+	=
38	+	+	+	+	+	=	16	1,05	+	+	+	=
47	+	+	+	+	+	=	21	1,86	+	+	+	=
48	+	+	+	+	+	=	22	1,12	+	+	+	=

TVC (CFU/mL) : 1 500

**Lab. E**

Code	Reference method ISO 11290-1				Result	Comparison / expected result	Code	Alternative method VIDAS LMX				Comparison / expected result
	half-Fraser		Fraser					Test TV	Test result	Confirmation OAA	Final result	
	O & A	Oxford	O & A	Oxford								
27	-	-	-	-	-	=	5	0,00	-	-	-	=
28	-	-	-	-	-	=	6	0,00	-	-	-	=
35	-	-	-	-	-	=	9	0,00	-	-	-	=
36	-	-	-	-	-	=	10	0,00	-	-	-	=
41	-	-	-	-	-	=	13	0,00	-	-	-	=
42	-	-	-	-	-	=	14	0,00	-	-	-	=
43	-	-	-	-	-	=	19	0,00	-	-	-	=
44	-	-	-	-	-	=	20	0,00	-	-	-	=
29	+	+	+	+	+	=	3	3,54	+	+	+	=
30	+	+	+	+	+	=	4	3,52	+	+	+	=
31	+	+	+	+	+	=	11	3,48	+	+	+	=
32	+	+	+	+	+	=	12	3,51	+	+	+	=
39	+	+	+	+	+	=	17	3,62	+	+	+	=
40	+	+	+	+	+	=	18	3,63	+	+	+	=
45	+	+	+	+	+	=	23	3,59	+	+	+	=
46	+	+	+	+	+	=	24	3,58	+	+	+	=
25	+	+	+	+	+	=	1	0,55	+	+	+	=
26	+	+	+	+	+	=	2	1,26	+	+	+	=
33	+	+	+	+	+	=	7	0,46	+	+	+	=
34	+	+	+	+	+	=	8	0,65	+	+	+	=
37	+	+	+	+	+	=	15	0,39	+	+	+	=
38	+	+	+	+	+	=	16	0,54	+	+	+	=
47	+	+	+	+	+	=	21	0,27	+	+	+	=
48	+	+	+	+	+	=	22	0,38	+	+	+	=

TVC (CFU/mL) : 3 900

**Lab. G**

Code	Reference method ISO 11290-1				Result	Comparison / expected result	Code	Alternative method VIDAS LMX				Comparison / expected result
	half-Fraser		Fraser					Test TV	Test result	Confirmation OAA	Final result	
	O & A	Oxford	O & A	Oxford								
27	-	-	-	-	-	=	5	0,00	-	-	-	=
28	-	-	-	-	-	=	6	0,00	-	-	-	=
35	-	-	-	-	-	=	9	0,00	-	-	-	=
36	-	-	-	-	-	=	10	0,00	-	-	-	=
41	-	-	-	-	-	=	13	0,00	-	-	-	=
42	-	-	-	-	-	=	14	0,00	-	-	-	=
43	-	-	-	-	-	=	19	0,00	-	-	-	=
44	-	-	-	-	-	=	20	0,00	-	-	-	=
29	+	+	+	+	+	=	3	3,14	+	+	+	=
30	+	+	+	+	+	=	4	3,12	+	+	+	=
31	+	+	+	+	+	=	11	2,92	+	+	+	=
32	+	+	+	+	+	=	12	2,97	+	+	+	=
39	+	+	+	+	+	=	17	3,24	+	+	+	=
40	+	+	+	+	+	=	18	3,32	+	+	+	=
45	+	+	+	+	+	=	23	3,21	+	+	+	=
46	+	+	+	+	+	=	24	3,23	+	+	+	=
25	+	+	+	+	+	=	1	3,44	+	+	+	=
26	+	+	+	+	+	=	2	3,41	+	+	+	=
33	+	+	+	+	+	=	7	3,36	+	+	+	=
34	+	+	+	+	+	=	8	3,24	+	+	+	=
37	+	+	+	+	+	=	15	3,56	+	+	+	=
38	+	+	+	+	+	=	16	3,54	+	+	+	=
47	+	+	+	+	+	=	21	3,54	+	+	+	=
48	+	+	+	+	+	=	22	3,64	+	+	+	=

TVC (CFU/mL) :

**Lab. H**

Code	Méthode de référence ISO 11290-1				Result	Comparaison / Résultat attendu	Code	Alternative method VIDAS LMX				Comparison / expected result
	half-Fraser		Fraser					Test TV	Test result	Confirmation	Final result	
	O & A	2nd media	O & A	2nd media								
27	-	-	-	-	-	=	5	0,00	-	-	-	=
28	-	-	-	-	-	=	6	0,00	-	-	-	=
35	-	-	-	-	-	=	9	0,00	-	-	-	=
36	-	-	-	-	-	=	10	0,00	-	-	-	=
41	-	-	-	-	-	=	13	0,00	-	-	-	=
42	-	-	-	-	-	=	14	0,00	-	-	-	=
43	-	-	-	-	-	=	19	0,00	-	-	-	=
44	-	-	-	-	-	=	20	0,00	-	-	-	=
29	+	+	+	+	+	=	3	3,23	+	+	+	=
30	+	+	+	+	+	=	4	3,17	+	+	+	=
31	+	+	+	+	+	=	11	3,01	+	+	+	=
32	+	+	+	+	+	=	12	2,99	+	+	+	=
39	+	+	+	+	+	=	17	3,17	+	+	+	=
40	+	+	+	+	+	=	18	3,23	+	+	+	=
45	+	+	+	+	+	=	23	3,27	+	+	+	=
46	+	+	+	+	+	=	24	3,14	+	+	+	=
25	+	+	+	+	+	=	1	0,65	+	+	+	=
26	+	+	+	+	+	=	2	1,87	+	+	+	=
33	+	+	+	+	+	=	7	2,13	+	+	+	=
34	+	+	+	+	+	=	8	1,41	+	+	+	=
37	+	+	+	+	+	=	15	0,00	-	-	-	#
38	+	+	+	+	+	=	16	0,00	-	-	-	#
47	+	+	+	+	+	=	21	0,00	-	-	-	#
48	+	+	+	+	+	=	22	0,00	-	-	-	#

TVC (CFU/mL): 4 300

Lab. I

Code	Reference method ISO 11290-1					Comparison / expected result	Code	Alternative method VIDAS LMX				Comparison / expected result
	half-Fraser		Fraser		Result			Test TV	Test result	Confirmation OAA	Final result	
	O & A	Oxford	O & A	Oxford								
27	-	-	-	-	-	=	5	0,00	-	-	-	=
28	-	-	-	-	-	=	6	0,00	-	-	-	=
35	-	-	-	-	-	=	9	0,00	-	-	-	=
36	-	-	-	-	-	=	10	0,00	-	-	-	=
41	-	-	-	-	-	=	13	0,00	-	-	-	=
42	-	-	-	-	-	=	14	0,00	-	-	-	=
43	-	-	-	-	-	=	19	0,00	-	-	-	=
44	-	-	-	-	-	=	20	0,00	-	-	-	=
29	+	+	+	+	+	=	3	3,35	+	+	+	=
30	+	+	+	+	+	=	4	3,35	+	+	+	=
31	+	+	+	+	+	=	11	3,32	+	+	+	=
32	+	+	+	+	+	=	12	3,23	+	+	+	=
39	+	+	+	+	+	=	17	3,14	+	+	+	=
40	+	+	+	+	+	=	18	3,17	+	+	+	=
45	+	+	+	+	+	=	23	3,13	+	+	+	=
46	+	+	+	+	+	=	24	3,08	+	+	+	=
25	+	+	+	+	+	=	1	3,26	+	+	+	=
26	+	+	+	+	+	=	2	3,35	+	+	+	=
33	+	+	+	+	+	=	7	3,24	+	+	+	=
34	+	+	+	+	+	=	8	3,28	+	+	+	=
37	+	+	+	+	+	=	15	3,31	+	+	+	=
38	+	+	+	+	+	=	16	2,61	+	+	+	=
47	+	+	+	+	+	=	21	3,28	+	+	+	=
48	+	+	+	+	+	=	22	3,21	+	+	+	=

TVC (CFU/mL): 1 600

Lab. J

Code	Reference method ISO 11290-1					Comparison / expected result	Code	Alternative method VIDAS LMX				Comparison / expected result
	half-Fraser		Fraser		Result			Test TV	Test result	Confirmation OAA	Final result	
	O & A	Oxford	O & A	Oxford								
27	-	-	-	-	-	=	5	0,00	-	-	-	=
28	-	-	-	-	-	=	6	0,00	-	-	-	=
35	-	-	-	-	-	=	9	0,00	-	-	-	=
36	-	-	-	-	-	=	10	0,00	-	-	-	=
41	-	-	-	-	-	=	13	0,00	-	-	-	=
42	-	-	-	-	-	=	14	0,00	-	-	-	=
43	-	-	-	-	-	=	19	0,00	-	-	-	=
44	-	-	-	-	-	=	20	0,00	-	-	-	=
29	+	+	+	+	+	=	3	2,78	+	+	+	=
30	+	+	+	+	+	=	4	2,80	+	+	+	=
31	+	+	+	+	+	=	11	2,86	+	+	+	=
32	+	+	+	+	+	=	12	2,82	+	+	+	=
39	+	+	+	+	+	=	17	2,86	+	+	+	=
40	+	+	+	+	+	=	18	2,77	+	+	+	=
45	+	+	+	+	+	=	23	2,78	+	+	+	=
46	+	+	+	+	+	=	24	2,81	+	+	+	=
25	+	+	+	+	+	=	1	2,66	+	+	+	=
26	-	-	-	-	-	#	2	2,93	+	+	+	=
33	+	+	+	+	+	=	7	2,83	+	+	+	=
34	+	+	+	+	+	=	8	2,55	+	+	+	=
37	+	+	+	+	+	=	15	0,68	+	+	+	=
38	+	+	+	+	+	=	16	1,41	+	+	+	=
47	+	+	+	+	+	=	21	2,60	+	+	+	=
48	+	+	+	+	+	=	22	2,33	+	+	+	=

TVC (CFU/mL): 17000

Lab. K

Code	Méthode de référence ISO 11290-1					Comparaison / Résultat attendu	Code	Alternative method VIDAS LMX				Comparison / expected result
	half-Fraser		Fraser		Result			Test TV	Test result	Confirmation	Final result	
	O & A	2nd media	O & A	2nd media								
27	-	-	-	-	-	=	5	0,00	-	-	-	=
28	-	-	-	-	-	=	6	0,00	-	-	-	=
35	-	-	-	-	-	=	9	0,00	-	-	-	=
36	-	-	-	-	-	=	10	0,00	-	-	-	=
41	-	-	-	-	-	=	13	0,00	-	-	-	=
42	-	-	-	-	-	=	14	0,00	-	-	-	=
43	-	-	-	-	-	=	19	0,00	-	-	-	=
44	-	-	-	-	-	=	20	0,00	-	-	-	=
29	+	+	+	+	+	=	3	3,06	+	+	+	=
30	+	+	+	+	+	=	4	2,99	+	+	+	=
31	+	+	+	+	+	=	11	2,97	+	+	+	=
32	+	+	+	+	+	=	12	2,92	+	+	+	=
39	+	+	+	+	+	=	17	3,01	+	+	+	=
40	+	+	+	+	+	=	18	2,94	+	+	+	=
45	+	+	+	+	+	=	23	3,04	+	+	+	=
46	+	+	+	+	+	=	24	2,85	+	+	+	=
25	-	-	-	-	-	#	1	3,07	+	+	+	=
26	+	+	+	+	+	=	2	2,89	+	+	+	=
33	+	+	+	+	+	=	7	2,96	+	+	+	=
34	+	+	+	+	+	=	8	2,18	+	+	+	=
37	+	+	+	+	+	=	15	3,13	+	+	+	=
38	+	+	+	+	+	=	16	1,59	+	+	+	=
47	+	+	+	+	+	=	21	2,35	+	+	+	=
48	+	+	+	+	+	=	22	0,00	-	-	-	#

TVC (CFU/mL): 2 000

**Lab. L**

Code	Reference method ISO 11290-1					Comparison / expected result	Code	Alternative method VIDAS LMX				Comparison / expected result
	half-Fraser		Fraser		Result			Test TV	Test result	Confirmation Rapid'Lmono	Final result	
	O & A	Oxford	O & A	Oxford								
27	-	-	-	-	-	=	5	0,00	-	-	-	=
28	-	-	-	-	-	=	6	0,00	-	-	-	=
35	-	-	-	-	-	=	9	0,00	-	-	-	=
36	-	-	-	-	-	=	10	0,00	-	-	-	=
41	-	-	-	-	-	=	13	0,00	-	-	-	=
42	-	-	-	-	-	=	14	0,00	-	-	-	=
43	-	-	-	-	-	=	19	0,00	-	-	-	=
44	-	-	-	-	-	=	20	0,00	-	-	-	=
29	+	+	+	+	+	=	3	2,30	+	+	+	=
30	+	+	+	+	+	=	4	2,34	+	+	+	=
31	+	+	+	+	+	=	11	2,36	+	+	+	=
32	+	+	+	+	+	=	12	2,35	+	+	+	=
39	+	+	+	+	+	=	17	2,33	+	+	+	=
40	+	+	+	+	+	=	18	2,32	+	+	+	=
45	+	+	+	+	+	=	23	2,43	+	+	+	=
46	+	+	+	+	+	=	24	2,35	+	+	+	=
25	+	+	+	+	+	=	1	2,24	+	+	+	=
26	+	+	+	+	+	=	2	2,13	+	+	+	=
33	+	+	+	+	+	=	7	2,24	+	+	+	=
34	+	+	+	+	+	=	8	2,31	+	+	+	=
37	+	+	+	+	+	=	15	2,41	+	+	+	=
38	+	+	+	+	+	=	16	2,43	+	+	+	=
47	+	+	+	+	+	=	21	2,34	+	+	+	=
48	+	+	+	+	+	=	22	2,38	+	+	+	=

TVC (CFU/mL): 1 700

**Lab. M**

Code	Reference method ISO 11290-1					Comparison / expected result	Code	Alternative method VIDAS LMX				Comparison / expected result
	half-Fraser		Fraser		Result			Test TV	Test result	Confirmation OAA	Final result	
	O & A	Oxford	O & A	Oxford								
27	-	-	-	-	-	=	5	0,00	-	-	-	=
28	-	-	-	-	-	=	6	0,00	-	-	-	=
35	-	-	-	-	-	=	9	0,00	-	-	-	=
36	-	-	-	-	-	=	10	0,00	-	-	-	=
41	-	-	-	-	-	=	13	0,00	-	-	-	=
42	-	-	-	-	-	=	14	0,00	-	-	-	=
43	-	-	-	-	-	=	19	0,00	-	-	-	=
44	-	-	-	-	-	=	20	0,00	-	-	-	=
29	+	+	+	+	+	=	3	3,55	+	+	+	=
30	+	+	+	+	+	=	4	3,49	+	+	+	=
31	+	+	+	+	+	=	11	3,67	+	+	+	=
32	+	+	+	+	+	=	12	3,59	+	+	+	=
39	+	+	+	+	+	=	17	3,54	+	+	+	=
40	+	+	+	+	+	=	18	3,48	+	+	+	=
45	+	+	+	+	+	=	23	3,49	+	+	+	=
46	+	+	+	+	+	=	24	3,52	+	+	+	=
25	+	+	+	+	+	=	1	2,04	+	+	+	=
26	+	+	+	+	+	=	2	2,00	+	+	+	=
33	+	+	+	+	+	=	7	2,68	+	+	+	=
34	+	+	+	+	+	=	8	2,12	+	+	+	=
37	+	+	+	+	+	=	15	0,21	+	+	+	=
38	+	+	+	+	+	=	16	2,61	+	+	+	=
47	+	+	+	+	+	=	21	1,90	+	+	+	=
48	+	+	+	+	+	=	22	2,54	+	+	+	=

TVC (CFU/mL):

**Lab. N**

Code	Méthode de référence ISO 11290-1					Comparaison / Résultat attendu	Code	Alternative method VIDAS LMX				Comparison / expected result
	half-Fraser		Fraser		Result			Test TV	Test result	Confirmation Rapid'Lmono et OAA	Final result	
	O & A	Rapid'Lmono	O & A	Rapid'Lmono								
27	-	-	-	-	-	=	5	0,00	-	-	-	=
28	-	-	-	-	-	=	6	0,00	-	-	-	=
35	-	-	-	-	-	=	9	0,00	-	-	-	=
36	-	-	-	-	-	=	10	0,00	-	-	-	=
41	-	-	-	-	-	=	13	0,00	-	-	-	=
42	-	-	-	-	-	=	14	0,00	-	-	-	=
43	-	-	-	-	-	=	19	0,00	-	-	-	=
44	-	-	-	-	-	=	20	0,00	-	-	-	=
29	+	+	+	+	+	=	3	2,77	+	+	+	=
30	+	+	+	+	+	=	4	2,57	+	+	+	=
31	+	+	+	+	+	=	11	2,52	+	+	+	=
32	+	+	+	+	+	=	12	2,52	+	+	+	=
39	+	+	+	+	+	=	17	2,59	+	+	+	=
40	+	+	+	+	+	=	18	2,60	+	+	+	=
45	+	+	+	+	+	=	23	2,61	+	+	+	=
46	+	+	+	+	+	=	24	2,57	+	+	+	=
25	+	+	+	+	+	=	1	2,25	+	+	+	=
26	+	+	+	+	+	=	2	2,32	+	+	+	=
33	+	+	+	+	+	=	7	1,93	+	+	+	=
34	+	+	+	+	+	=	8	0,80	+	+	+	=
37	+	+	+	+	+	=	15	2,52	+	+	+	=
38	+	+	+	+	+	=	16	1,68	+	+	+	=
47	+	+	+	+	+	=	21	2,24	+	+	+	=
48	+	+	+	+	+	=	22	2,65	+	+	+	=

TVC (CFU/mL): 2 500

**Lab. O**

Code	Reference method ISO 11290-1					Comparison / expected result	Code	Alternative method VIDAS LMX				Comparison / expected result
	half-Fraser		Fraser		Result			Test TV	Test result	Confirmation Rapid'Lmono et OAA	Final result	
	O & A	Oxford	O & A	Oxford								
27	-	-	-	-	-	=	5	0,00	-	-	-	=
28	-	-	-	-	-	=	6	0,00	-	-	-	=
35	-	-	-	-	-	=	9	0,00	-	-	-	=
36	-	-	-	-	-	=	10	0,00	-	-	-	=
41	-	-	-	-	-	=	13	0,00	-	-	-	=
42	-	-	-	-	-	=	14	0,00	-	-	-	=
43	-	-	-	-	-	=	19	0,00	-	-	-	=
44	-	-	-	-	-	=	20	0,00	-	-	-	=
29	+	+	+	+	+	=	3	2,61	+	+	+	=
30	+	+	+	+	+	=	4	2,65	+	+	+	=
31	+	+	+	+	+	=	11	2,58	+	+	+	=
32	+	+	+	+	+	=	12	2,56	+	+	+	=
39	+	+	+	+	+	=	17	2,54	+	+	+	=
40	+	+	+	+	+	=	18	2,51	+	+	+	=
45	+	+	+	+	+	=	23	2,48	+	+	+	=
46	+	+	+	+	+	=	24	2,54	+	+	+	=
25	+	+	+	+	+	=	1	2,58	+	+	+	=
26	+	+	+	+	+	=	2	0,55	+	+	+	=
33	+	+	+	+	+	=	7	2,53	+	+	+	=
34	+	+	+	+	+	=	8	2,54	+	+	+	=
37	+	+	+	+	+	=	15	2,56	+	+	+	=
38	+	+	+	+	+	=	16	2,59	+	+	+	=
47	+	+	+	+	+	=	21	2,89	+	+	+	=
48	+	+	+	+	+	=	22	0,00	-	-	-	#

TVC (CFU/mL): 20 000

**Lab. P**

Code	Méthode de référence ISO 11290-1				Result	Comparaison / Résultat attendu	Code	Alternative method VIDAS LMX				Comparison / expected result
	half-Fraser		Fraser					Test TV	Test result	Confirmation	Final result	
	O & A	2nd media	O & A	2nd media								
27	-	-	-	-	-	=	5	0,00	-	-	-	=
28	-	-	-	-	-	=	6	0,00	-	-	-	=
35	-	-	-	-	-	=	9	0,00	-	-	-	=
36	-	-	-	-	-	=	10	0,00	-	-	-	=
41	-	-	-	-	-	=	13	0,00	-	-	-	=
42	-	-	-	-	-	=	14	0,00	-	-	-	=
43	-	-	-	-	-	=	19	0,00	-	-	-	=
44	-	-	-	-	-	=	20	0,00	-	-	-	=
29	+	+	+	+	+	=	3	3,21	+	+	+	=
30	+	+	+	+	+	=	4	3,22	+	+	+	=
31	+	+	+	+	+	=	11	3,34	+	+	+	=
32	+	+	+	+	+	=	12	3,39	+	+	+	=
39	+	+	+	+	+	=	17	3,46	+	+	+	=
40	+	+	+	+	+	=	18	3,31	+	+	+	=
45	+	+	+	+	+	=	23	3,31	+	+	+	=
46	+	+	+	+	+	=	24	3,31	+	+	+	=
25	+	+	+	+	+	=	1	1,34	+	+	+	=
26	+	+	+	+	+	=	2	0,50	+	+	+	=
33	+	+	+	+	+	=	7	0,68	+	+	+	=
34	+	+	+	+	+	=	8	0,96	+	+	+	=
37	+	+	+	+	+	=	15	0,35	+	+	+	=
38	+	+	+	+	+	=	16	0,55	+	+	+	=
47	+	+	+	+	+	=	21	0,69	+	+	+	=
48	+	+	+	+	+	=	22	0,16	+	+	+	=

TVC (CFU/mL): NC