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ISO 16140-2:2016 renewal study validation of CampyFood Agar method for the enumeration of *Campylobacter* spp. in poultry products, meat products and environmental samples

MicroVal study number	2009LR28
Method/Kit name	**CampyFood Agar method**
Report version	**Summary Report** - **Version 2** 28 October 2022
Manufacturer	**bioMérieux** 376 Chemin de l'Orme F-69280 MARCY L'ETOILE (France)
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This report consists of 134 pages, including 6 appendices.
Only copies including the totality of this report are authorised.

Competencies of the laboratory are certified by COFRAC accreditation for the analyses marked with the symbol◆.

Cancels and replaces the previous version
which must be returned to ADRIA Développement or destroyed internally.

Standardized report - Quantitative methods

MICROVAL® NEN

The modifications are highlighted.

The technical protocol and the result interpretation were carried out according to the EN ISO 16140-2:2016 and the MicroVal Technical committee interpretation of ISO 16140-2 and ISO 16140-6 V2-5. This document is prepared in accordance with ISO 16140-2:2016 and MicroVal technical committee interpretation of ISO 16140-2 v.2.5.

Validation protocol	▪ ISO 16140-1 (2016): Microbiology of the food chain - Method validation — *Part 1: Vocabulary* ▪ ISO 16140-2 (2016): Microbiology of the food chain - Method validation — *Part 2: Protocol for the validation of alternative (proprietary) methods against a reference method*
Reference method♦	- ISO/TS 10272-2:2006 - Microbiology of food and animal feeding stuffs -- Horizontal method for detection and enumeration of *Campylobacter* spp. -- Part 2: Colony-count technique - ISO 10272-2:2017 - Microbiology of the food chain - Horizontal method for detection and enumeration of *Campylobacter* spp. - Part 2: Colony-count technique
Method/Kit name	**CampyFood Agar method for the enumeration of *Campylobacter* spp.**
Scope of validation	☒ **Poultry products** ☒ **Meat products** ☒ **Environmental samples**
Certification organization	Lloyd's Register

♦ Analyses performed according to the COFRAC accreditation

LIST OF ABBREVIATIONS

-	CFA	CampyFood Agar
-	CFB	CampyFood Broth
-	CFU	Colony Forming Units
-	CBA	Columbia Sheep blood agar
-	d	Doubtful colony
-	EL	Expert Laboratory
-	g	Gram
-	h	Hour
-	ILS	Interlaboratory Study
-	Inc/Ex	Inclusivity and Exclusivity
-	MCS	Method Comparison Study
-	min	minute
-	ml	Milliliter
-	MR	(MicroVal) Method Reviewer
-	MVTC	MicroVal Technical Committee
-	PSD	Peptone Salt Diluent
-	RT	Relative Trueness
-	w:	Weak reaction
-	XLD:	Xylose Lysine Deoxycholate agar

Bold typing: artificially inoculated samples

1 INTRODUCTION

The method was validated at MicroVal on the 31st March 2010 for poultry products, meat products and environmental samples (Certificate number: 2009LR28). It was renewed in March 2014 without modification.
A renewal according to the ISO 16140-2 (2016) was obtained in September 2018.

The alternative method used is an enumeration of *Campylobacter* spp. on CampyFood Agar (CFA) from sample primarily diluted in :

- Peptone salt (PSD)

or

- CFB broth.

The reference methods♦ are:

- ISO/TS 10272-2 (January 2006) - Microbiology of food and animal feeding stuffs -- Horizontal method for detection and enumeration of *Campylobacter* spp. -- Part 2: Colony-count technique
- ISO 10272-2 (2017) - Microbiology of the food chain - Horizontal method for detection and enumeration of *Campylobacter* spp. - Part 2: Colony-count technique.

Categories included:

- Poultry products
- Meat products (except poultry)
- Environmental samples

Criteria to be evaluated during the study:

- Method Comparison Study (MCS)
    * Relative Trueness study
    * Accuracy profile study
    * Inclusivity and exclusivity study

- Interlaboratory Study (ILS).

♦ Analyses performed according to the COFRAC accreditation

2 METHOD PROTOCOLS

The Method Comparison Study was carried out using 25 gram portions of sample material.

2.1 Reference methods♦

See the flow diagram in **Annex 1**.

The reference method used for the initial validation study was the ISO/TS 10272-2 (January 2006) - Microbiology of food and animal feeding stuffs - Horizontal method for detection and enumeration of *Campylobacter* spp. - Part 2: Colony-count technique.

The reference method used for the renewal study was the ISO 10272-2 (2017) - Microbiology of the food chain - Horizontal method for detection and enumeration of *Campylobacter* spp. - *Part 2: Colony-count technique.* Changes linked to this revision are considered as minor and thus with no impact on the alternative method validations. Noteworthy, 2 plates/dilution were used in the initial validation study whereas only 1 is required by the ISO 10272-2:2017 (and will be used in the renewal study).

Sample preparations used in the reference method were done according to ISO 6887 parts 1 and 2.

2.2 Alternative method

See the flow diagram of the alternative method in **Annex 2**.
See the CampyFood Agar kit insert and the *Campylobacter* latex test

The CampyFood Agar is a selective media for isolation and enumeration of most thermotolerant *Campylobacter* species as *C. jejuni, C. coli, C. lari.*

The CampyFood Agar contains a mixture of peptones and horse serum which favour the growth of *Campylobacter* as well as a mixture of antibiotics and antifungal agents which are inhibitory to must of contaminants. A colour indicator is used to facilitate reading of the plates. The *Campylobacter* spp. appear as red colonies.

♦ Analyses performed according to the COFRAC accreditation

Two diluents can be used for the primary sample dilution: peptone salt or CFB broth. The protocol is the following:

- Dilution in peptone salt (PSD) or CFB broth (dilution 1/10);
- Inoculation of 0.1 ml on one CampyFood Agar plate by surface spreading or 1 ml onto 3 plates (low number estimation). Repeat with subsequent decimal dilutions if necessary;
- Incubation of the plates in a microaerobic atmosphere, inverted for 44 h ± 4 h at 41.5°C ± 1°C.

The typical colonies are confirmed by:

- The tests described in the ISO 10272-2 method (including the purification step);
- A simplified method:
  * Streaking half colony on blood agar: incubate for 48 h ± 4 h at 41.5°C ± 1°C in aerobic atmosphere,
  * Streaking the other half colony on blood agar: incubate for 48 h ± 4 h at 41.5°C ± 1°C in microaerobic atmosphere;
  * Oxidase test and microscopic examination on colonies which grow in microaerobic atmosphere;
- VIDAS® CAM method: on 1 up to 5 pooled typical colonies (depending on the number of colonies available on the plates).
- *Campylobacter* latex kit: on 1 colony until 5 if the first one is negative, depending on the number of colonies available on the plate
- VITEK® MS or VITEK® MS PRIME Mass Spectrometry on 1 up to 5 typical colonies (depending on the number of colonies available on the plates) from CFA or CBA.

2.3 Study design

The study design depends on diluent used for the primary sample dilution of the alternative method. When peptone salt is used, the reference and alternative methods share a common dilution step, it is a paired study. When CFB is used as primary diluent, it is an unpaired study.

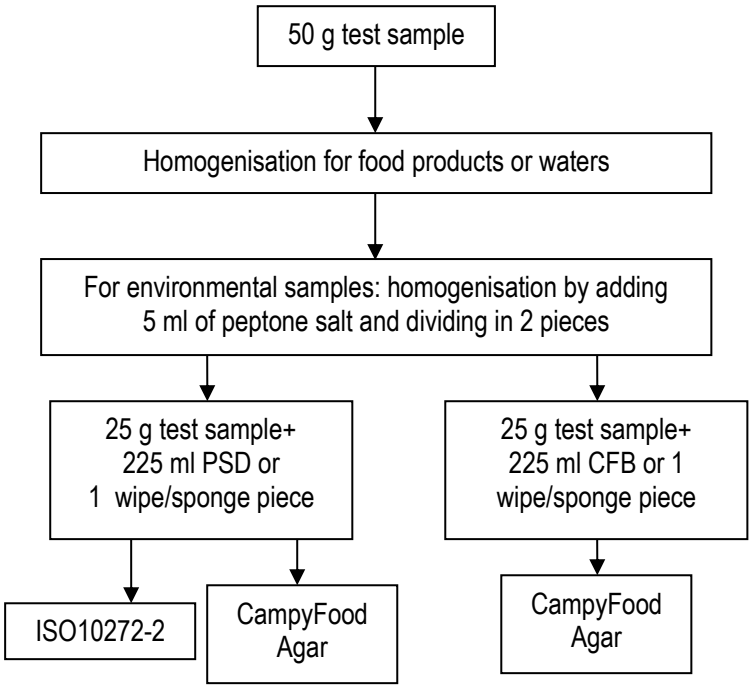
3 METHOD COMPARISON STUDY

3.1 Sample preparation

During the initial validation study, 2 diluents were tested (peptone salt and CFB broth). The further decimal dilutions were done in peptone salt. The CampyFood broth was also used as diluents for the reference method protocol in order to get sufficient information to explain result differences if required. For the renewal study, the reference method was run only using the peptone salt for the primary dilution.

For naturally contaminated samples, the tests were realized according to the following scheme (See Figure 1). Artificially contaminated samples were inoculated individually.

Figure 1



3.2 Confirmation protocol applied for the renewal study

Four confirmatory protocols were tested for the initial validation study:

- Tests described in the ISO method
- Simplified method
- VIDAS CAM (pool of up to 5 colonies)
- AccuProbe

The AccuProbe is no longer used in the confirmation protocol.

For the renewal study, the following confirmatory protocols were claimed:

- Tests described in the ISO method
- Simplified method
- VIDAS® CAM
- *Campylobacter* latex test
- VITEK® MS.

Confirmation of presumptive colonies using *Campylobacter* latex test and VITEK® MS was certified by AFNOR Certification (2014) with a minimum of 150 target and 100 non-target strains :

- *Campylobacter* latex test (on 1 colony until 5 if the first one is negative, depending on the number of colonies available on the plate) from CFA or CBA.
- VITEK® MS Mass Spectrometry from CFA or CBA on 1 to 5 colonies;

Concerning the *Campylobacter* latex test an extension study was run in 2014 for AFNOR validation, a summary of the results is given in part “3.5 Inclusivity and exclusivity”, this was also tested during the renewal validation study
Concerning VITEK® MS, it is proposed to include this confirmation protocol in the MicroVal certificate on the basis of the already existing data. A summary of the main results is given in part “3.5 Inclusivity and exclusivity” studies.

A modification was conducted by the method developer to extend the confirmation procedure to the VITEK® MS PRIME instrument. In June of 2022, the study data was reviewed and approved by the MicroVal Technical Committee.

3.3 Relative trueness study

The relative trueness is the degree of correspondence between the response obtained by the reference method and the response obtained by the alternative method on identical samples.

3.3.1 Number and nature of the samples

The selected types per category and examples of Items tested are listed in Table 1.

A total of 3 categories was included in this validation study. Three types were evaluated within each category. A minimum of 15 items for each category was tested by both the reference method and the alternative method in the relative trueness study, with a minimum of 5 interpretable results per type.

Table 1 - List of Categories, types, and examples of Items tested within the relative trueness study

Category	Type	Number of samples tested	Number of interpretable results by both methods	
			PSD	CFB
1-Meat and meat products (except poultry)	a: Fresh	9	6	6
	b: Carcass samples	17	5	5
	c: Processed meat products	6	6	6
	Total	32	17	17
2-Poultry and poultry products	a: Fresh meat	13	10	7
	b: Carcass samples (including poultry neck skin)	10	6	5
	c: Cooked meat products	10	6	6
	Total	33	22	18
3-Environmental samples	a: Wastes in manufacturing process	9	7	5
	b: Equipment / production environment (sponge, swabs, wipes)	14	6	5
	c: Water used in the manufacturing process	11	6	6
	Total	34	18	16
Total		**99**	**57**	**51**

99 samples were analyzed, leading to 57 exploitable results using PSD and 51 exploitable results using CFB as diluent.

3.3.2 Artificial and natural contamination of the samples

Artificial contaminations were realized by spiking or seeding protocols. Injury efficiency was evaluated by enumerating the pure culture on selective and non-selective agars.

28 samples were artificially contaminated, 24 gave interpretable results by both methods and 33 naturally contaminated samples gave interpretable results by both methods using PSD and 27 using CFB

The naturally contaminated samples giving interpretable results represent 57.9% and 52.9% respectively for PSD and CFB diluents.

3.3.3 Raw data

The raw data are provided in **Annex 3.**

The samples were analyzed by the reference and the alternative methods in order to have 15 interpretable results per incubation protocol, and 5 interpretable results per tested type.

The data are classified in three categories (See

Table 2):

- Interpretable results with the reference and the alternative methods.
- Results with less than 4 colonies per plate with the reference and/or the alternative method (indicated with "*" in the data) in order to have a more precise result. These results are not included in the calculation as according to the ISO 7218, a minimum of 4 colonies need to be enumerated to take into account the result.
- Results with no colony on plate (below the quantification limit) or with more than 150 colonies per plate (above the quantification limit): according to the ISO 16140-2:2016, if any result (either reference or alternative method) is below the quantification limit, the data should be plotted using a substituted value of 1 $\log_{10}$ units less than the observed value in case of a lower than value. Similarly, any value greater than the upper limit should be amended by adding 1 log unit more. These results are not included in the calculations but also appear on the graphs.

Table 2 - Classification of the data

Category	Type	Number of tested samples	PSD			CFB		
			Number of interpretable results by both methods	Number of samples with <4 CFU/plate	Number of samples with <1 CFU or >150 CFU/plate	Number of interpretable results by both methods	Number of samples with <4 CFU/plate	Number of samples with <1 CFU or >150 CFU/plate
1-Meat and meat products (except poultry)	Type a	9	6	1	2	6	0	3
	Type b	17	5	0	12	5	0	12
	Type c	6	6	0	0	6	0	0
	Total	32	17	1	14	17	0	15
2-Poultry and poultry products	Type a	13	10	2	4	7	4	3
	Type b	10	6	2	2	5	2	3
	Type c	10	6	0	4	6	0	4
	Total	33	22	4	10	18	6	10
3-Environmental samples	Type a	9	7	1	1	5	3	1
	Type b	14	6	1	8	5	0	9
	Type c	11	5	0	5	6	0	5
	Total	34	18	2	14	16	3	15
Total		**99**	**57**	**7**	**38**	**51**	**9**	**40**

The samples, which were not used in the calculations, are provided in Table 3.

Table 3 - Samples which were not used in the calculations

Sample N°	Product	Reference method: ISO 10272-2	PSD		CFB		Category	Type
			ISO or simplified method confirmation (log CFU/g)	VIDAS CAM confirmation (log CFU/g)	ISO or simplified method confirmation (log CFU/g)	VIDAS CAM confirmation (log CFU/g)		
563	Turkey leg without skin	2,98	3,00	3,00	1,00*	<1,00	2	a
564	Chicken pieces with skin	1,98	1,85	1,85	<1,00	<1,00	2	a
706	Chicken wings (MAP)	1,78	1,78	1,90	1,30*	1,30*	2	a
707	White chicken leg (MAP)	1,18*	<1,00	<1,00	1,00*	1,24*	2	a
708	Chicken drumstick (MAP)	1,60	1,24*	1,24*	1,60	1,60	2	a
984	Chicken wings	<1,00	1,15*	1,39*	1,70	1,90	2	a
985	Chicken drumsticks	1,93	1,60	1,60	1,15*	1,24*	2	a
997	Quail	<1,00	<2,00	<2,00	<2,00	<2,00	2	a
998	Cockerel	<1,00	<1,00	<1,00	<1,00	<1,00	2	a
1005	Chicken drumqticks (MAP)	1,44*	1,54*	1,54*	1,60	1,60	2	a
1060	Chicken carcass	1,15*	1,00*	1,00*	1,30*	1,60	2	b
1061	Chicken carcass	1,18	1,00*	1,00*	1,15*	1,15*	2	b
1065	Duck liver pâté	<1,00	<1,00	<1,00	<1,00	<1,00	2	c
1066	Pork carcass N°1	<1,00	<1,01	<1,00	<1,00	<1,00	1	b
1067	Pork carcass N°2	<1,00	<1,00	<1,00	<1,00	<1,00	1	b
1097	**Cooked chicken fillets**	<1,00	<1,00	<1,00	<1,00	<1,00	2	c

Sample N°	Product	Reference method: ISO 10272-2	PSD		CFB		Category	Type
			ISO or simplified method confirmation (log CFU/g)	VIDAS CAM confirmation (log CFU/g)	ISO or simplified method confirmation (log CFU/g)	VIDAS CAM confirmation (log CFU/g)		
1272	Environmental sample (feathery)N°1	<3,00	<3,00	<3,00	<3,00	<3,00	3	b
1273	Environmental sample (feathery)N°2	<3,00	<3,00	<3,00	<3,00	<3,00	3	b
1274	Environmental sample (feathery)N°4	<3,00	<3,00	<3,00	<3,00	<3,00	3	b
1275	Environmental sample (feathery)N°3	<3,00	<3,00	<3,00	<3,00	<3,00	3	b
1276	Environmental sample (feathery)N°4	<3,00	<3,00	<3,00	<3,00	<3,00	3	c
1301	Environmental sample (feathery)N°2	<3,00	<3,00	<3,00	<3,00	<3,00	3	c
1398	Scalding water	<1,00	<1,00	<1,00	<1,00	<1,00	3	c
1402	Frozen Guinea-fowl liver	0,85*	<1,00	<1,00	<1,00	<1,00	3	b
1403	Operator hands wipe	<1,00	<1,00	<1,00	<1,00	<1,00	3	a
1411	**Ground beef**	0,70*	1,30*	1,30*	<1,00	<1,00	1	a
1435	Beef slaughter-house environmental sample(wipe)	<3,00	<3,00	<3,00	<1,00	<1,00	3	b
1436	Beef slaughter-house environmental sample(wipe)	<1,00	<1,00	<1,00	<1,00	<1,00	3	b
1437	Pork slaughter-house environmental sample(wipe)	<3,00	<3,00	<3,00	<3,00	<3,00	3	b
1438	Pork slaughter-house environmental sample(wipe)	<3,00	<2,00	<2,00	<2,00	<2,00	3	b
8644	Waste (Poultry skin and leg)	1,90	2,00	2,00	1,00*	1,00*	3	a
8646	Waste (Poultry head)	1,78	1,70	1,70	1,48*	1,48*	3	a
8647	Waste (Poultry head)	1,00*	2,00	2,00	1,95	1,95	3	a
9488	Sponge beef carcass	<1,00	<1,00	<1,00	<1,00	<1,00	1	b
9489	Sponge beef carcass	<1,00	<1,00	<1,00	<1,00	<1,00	1	b
9490	Sponge beef carcass	<1,00	<1,00	<1,00	<1,00	<1,00	1	b
9491	Sponge beef carcass	<1,00	<1,00	<1,00	<1,00	<1,00	1	b
9492	Sponge beef carcass	<1,00	<1,00	<1,00	<1,00	<1,00	1	b
9493	Sponge beef carcass	<1,00	<1,00	<1,00	<1,00	<1,00	1	b
9494	Sponge beef carcass	<1,00	<1,00	<1,00	<1,00	<1,00	1	b
9495	Sponge beef carcass	<1,00	<1,00	<1,00	<1,00	<1,00	1	b
455	Pork feet	<1,00	<1,00	<1,00	<1,00	<1,00	1	a
456	Pork tails	<1,00	<1,00	<1,00	<1,00	<1,00	1	a
457	Cooked poultry	<1,00	<1,00	<1,00	<1,00	<1,00	2	c
458	Cooked poultry	<1,00	<1,00	<1,00	<1,00	<1,00	2	c
863	Sponge pork carcass	<1,00	<1,00	<1,00	<1,00	<1,00	1	b
864	Sponge pork carcass	<1,00	<1,00	<1,00	<1,00	<1,00	1	b
1417	Poultry neck skin	1,60	1,95	1,95	<1,00	<1,00	2	b
1418	Poultry neck skin	<1,00	<1,00	<1,00	1,30*	1,60	2	b
1753	Poultry neck skin	<4,00	<4,00	<4,00	<4,00	<4,00	2	b
3119	**Process water**	<1,00	<1,00	<1,00	<1,00	<1,00	3	c
3120	**Process water**	<1,00	<1,00	<1,00	<1,00	<1,00	3	c

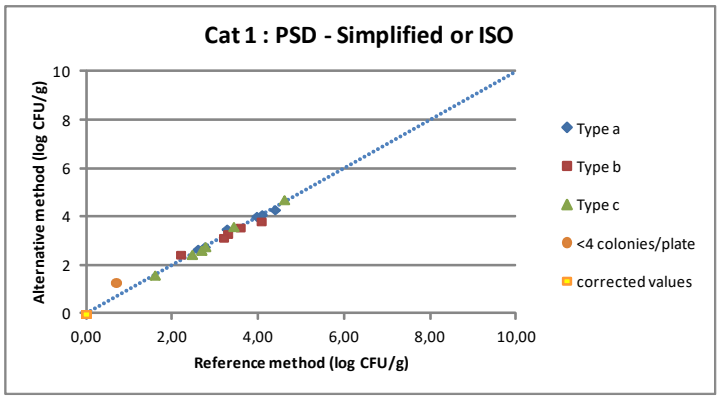
3.3.4 Statistical interpretation

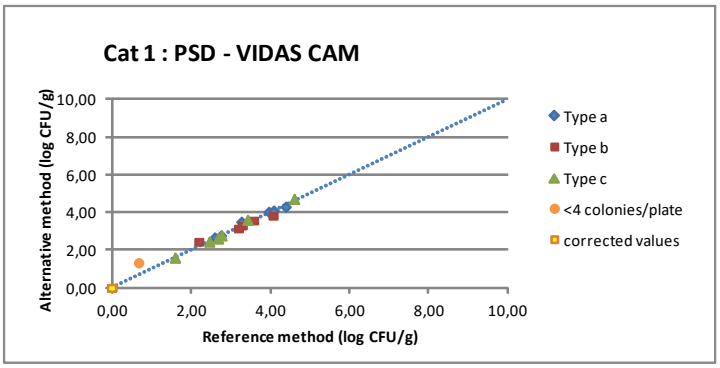
The obtained data were analyzed using the scatter plot. The graphs are provided with the line of identity (y = x).

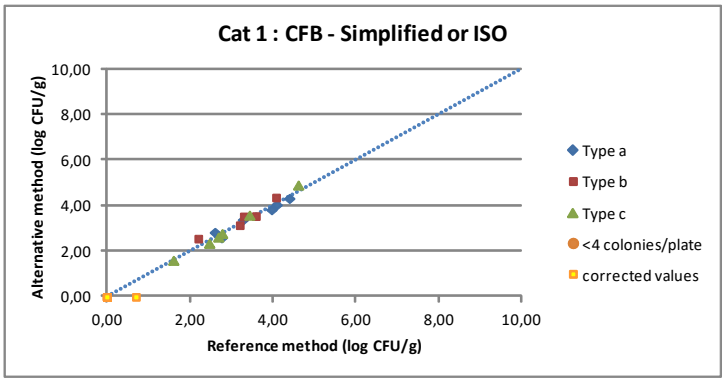
Figures 2 to 4 show the data plotted for each individual category.

Figure 5 shows the data plotted for all the products.

Figure 2 - Data plotted for the Meat and meat products (except poultry)







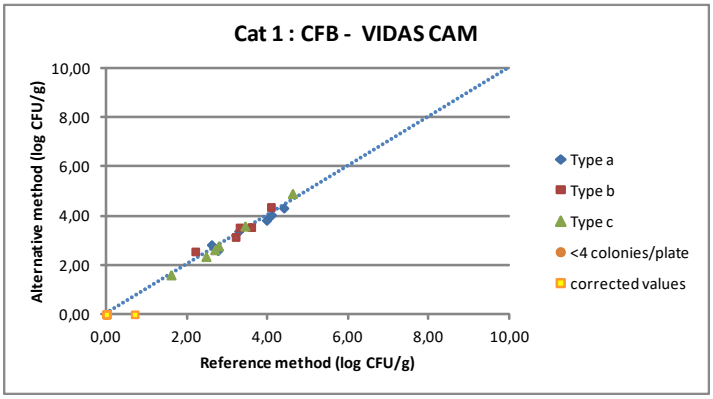
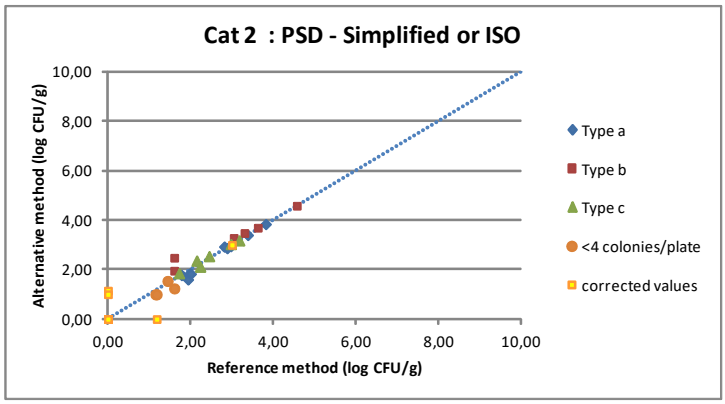
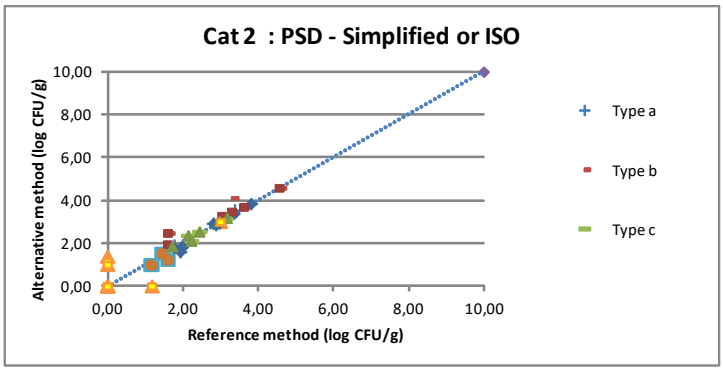
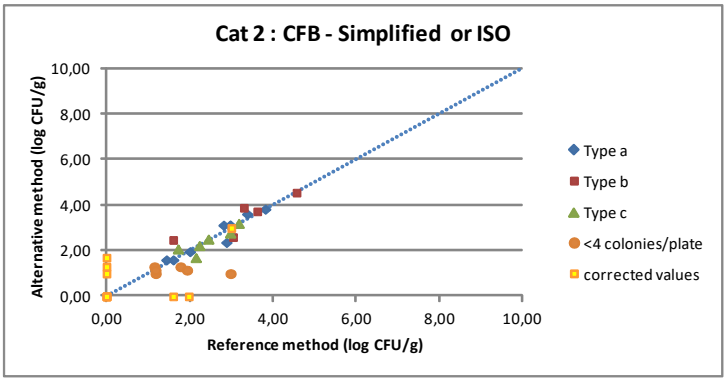


Figure 3- Data plotted for Poultry and poultry products







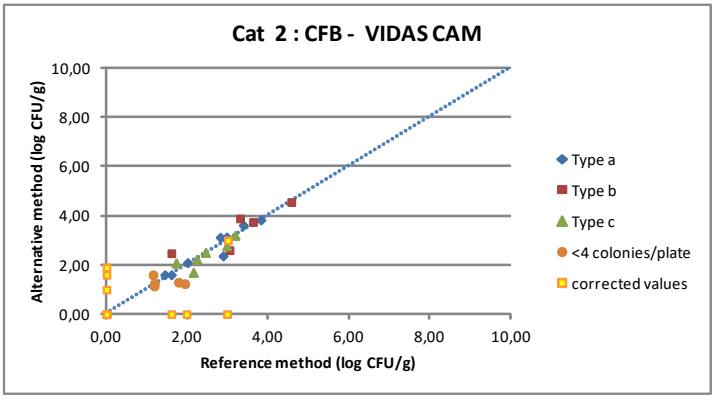
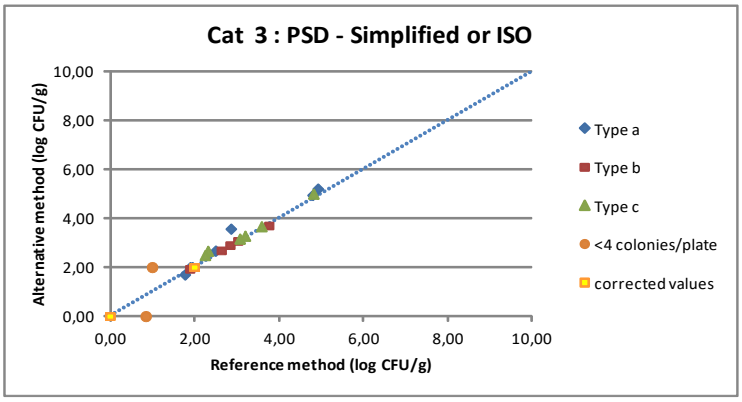
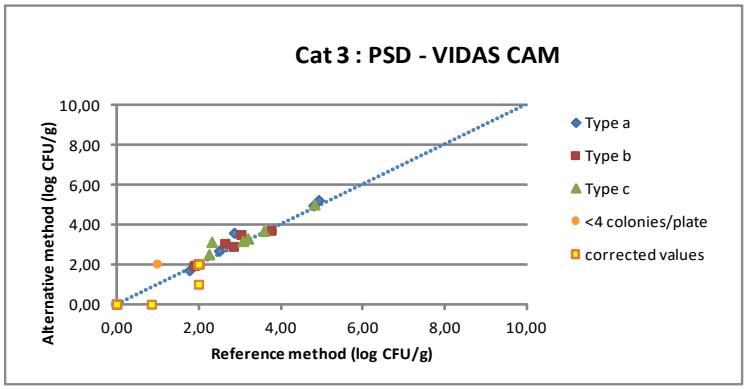
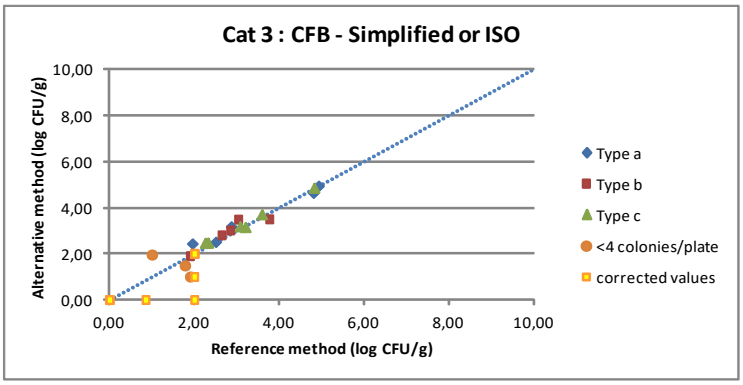


Figure 4- Data plotted for Environmental samples







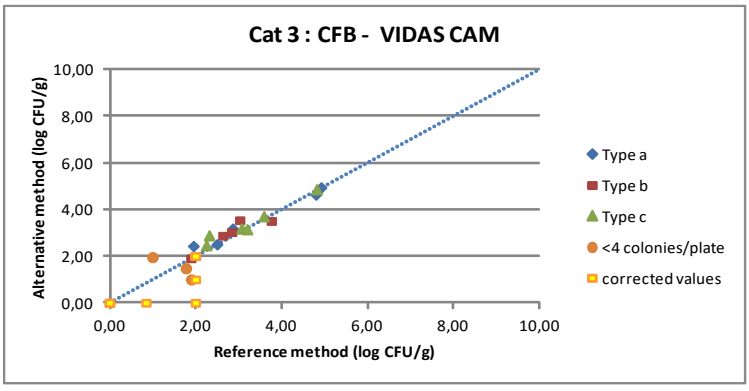
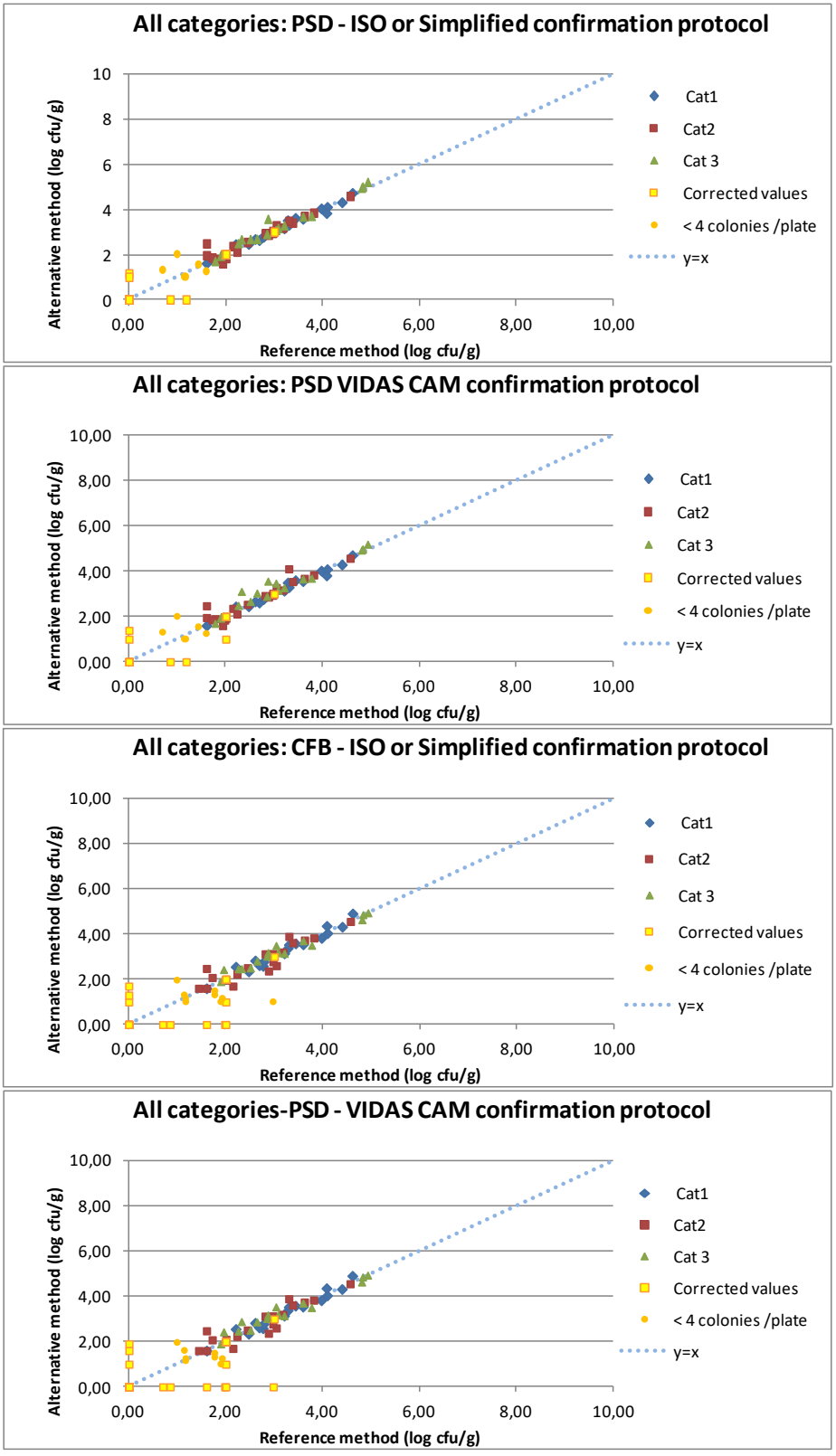


Figure 5 - Data plotted for all the products



The values obtained for the alternative method are closed to the line y=x whatever the diluent is used. However, the dispersion seems a little bit higher using the CFB broth. This could be easely explained by the fact that in case of using CFB different initial suspensions were prepared (unpaired study design).

The calculated values for Average difference and Standard deviation differences per category are provided in Table 4.

Table 4 - Calculated values

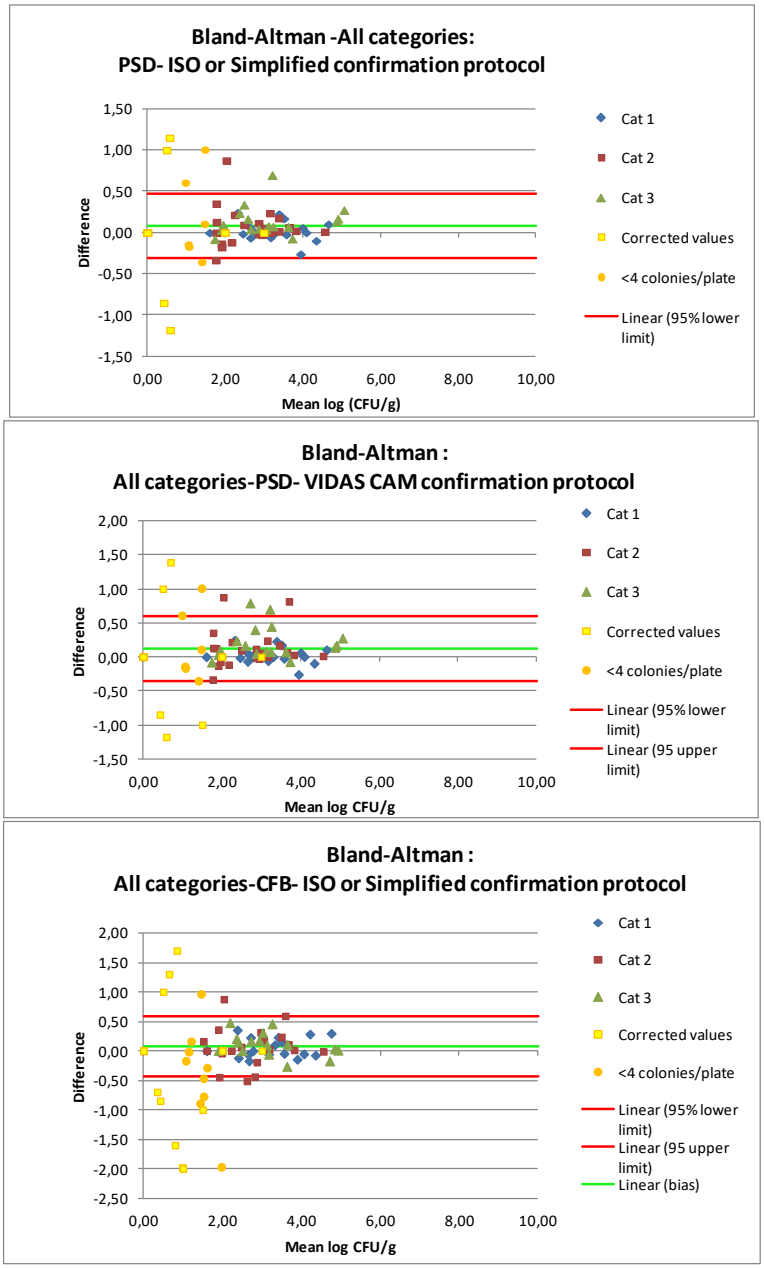
Protocol	Category	n	$\bar{D}$	SD	95% lower limit	95% upper limit
PSD-ISO or simplified method	1-Meat and meat products (except poultry)	17	0,02	0,12	-0,24	0,29
	2-Poultry and poultry products	22	0,07	0,23	-0,42	0,57
	3-Environmental samples	18	0,13	0,18	-0,25	0,46
	All categories	57	0,08	0,19	-0,31	0,46
PSD -VIDAS CAM	1-Meat and meat products (except poultry)	17	0,02	0,12	-0,24	0,29
	2-Poultry and poultry products	22	0,12	0,27	-0,47	0,70
	3-Environmental samples	18	0,20	0,24	-0,32	0,73
	All categories	57	0,12	0,24	-0,36	0,59
CFB-ISO or simplified method	1-Meat and meat products (except poultry)	17	0,05	0,17	-0,32	0,42
	2-Poultry and poultry products	18	0,07	0,34	-0,69	0,72
	3-Environmental samples	16	0,11	0,20	-0,33	0,55
	All categories	52	0,07	0,25	-0,43	0,58
CFB -VIDAS CAM	1-Meat and meat products (except poultry)	17	0,05	0,17	-0,32	0,42
	2-Poultry and poultry products	19	0,07	0,34	-0,66	0,81
	3-Environmental samples	16	0,14	0,24	-0,38	0,66
	All categories	52	0,09	0,26	-0,44	0,61

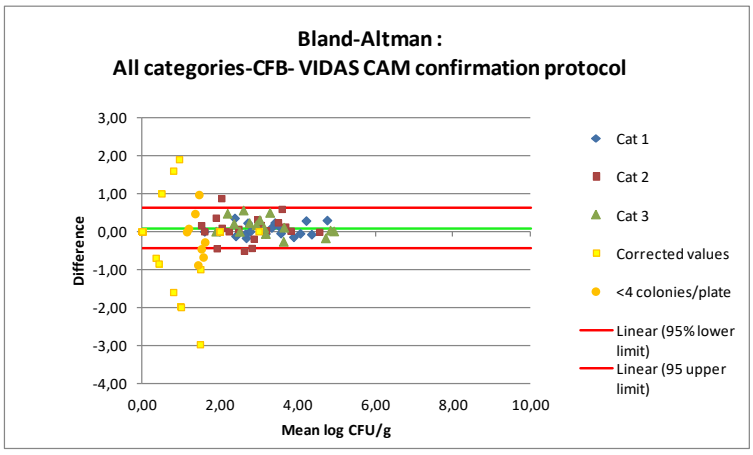
$\bar{D}$: Average difference SD: Standard deviation of differences

The average differences calculated for the different tested protocols are similar and varies from 0.07 log (CFB-ISO or simplified confirmation protocols) to 0.12 log (PSD-VIDAS CAM.)
The LCL (lower confidence limit) varies from -0.44 to -0.31 and the UCL (upper confidence limit) from 0.46 to 0.61 log.

The Bland-Altman difference plot for all the samples is given in Figure 6.

Figure 6 – Bland-Altman difference plot for all the samples





Samples for which the difference between the result observed with the reference and the alternative methods is above or lower than the limits are listed in Table 5.

Table 5 - Analysis of the data out of the confidence limits

Values in green: differences in favour of the alternative method
Values in red: differences in favour of the reference method
Values in black: equivalent enumeration observed with both methods

Corrected value according to the ISO 16140-2:2016 for results with no colony on plate (below the quantification limit) or with more than 150 colonies per plate (above the quantification limit.

Results calculated using enumeration lower than 4 CFU/plate

Protocol	Classification of the data	Category	Type	N° Sample	Product	Reference method	Alternative method	Values before correction (Reference or/and alternative method)	Mean	Difference	Lower / Upper limits
PSD-ISO or simplified	Interpretable by both methods	2	a	985	Chicken drumsticks	1,93	1,60	/	1,77	-0,33	-0,30 / 0,46
		2	b	1419	Poultry neck skin	1,60	2,48	/	2,04	0,88	
		3	a	8641	Waste (Poultry livers)	2,87	3,57	/	3,22	0,70	
	< 4 CFU/plate	2	a	708	Chicken drumstick (MAP)	1,60	1,24	/	1,42	-0,36	
		2	a	**1411**	**Ground beef**	0,70	1,30	/	1,00	0,60	
		3	a	8647	Waste (Poultry head)	1,00	2,00	/	1,50	1,00	
	Corrected values	2	a	707	White chicken leg (MAP)	1,18	0,00	1,00	0,59	-1,18	
		3	b	1402	Frozen Guinea-fowl liver	0,85	0,00	1,00	0,43	-0,85	
		2	a	984	Chicken wings	0,00	1,15	1,00	0,58	1,15	
		2	a	997	Quail	0,00	1,00	1,00 / 2,00	0,50	1,00	
PSD-VIDAS CAM	Interpretable by both methods	2	b	1419	Poultry neck skin	1,60	2,48	/	2,04	0,88	-0,36 / 0,59
		2	b	1422	Poultry neck skin	3,30	4,11	/	3,71	0,81	
		3	a	8641	Waste (Poultry livers)	2,87	3,57	/	3,22	0,70	
		3	c	901	Refrigeration water(poultry)	2,32	3,11	/	2,72	0,79	
	< 4 CFU/plate	3	a	8647	Waste (Poultry head)	1,00	2,00	/	1,50	1,00	
	Corrected values	2	a	707	White chicken leg (MAP)	1,18	0,00	1,00	0,59	-1,18	
		2	b	1402	Frozen Guinea-fowl liver	0,85	0,00	1,00	0,43	-0,85	
		3	b	1438	Pork slaughter-house environmental sample(wipe)	2,00	1,00	3,00 / 2,00	1,50	-1,00	

Protocol	Classification of the data	Category	Type	N° Sample	Product	Reference method	Alternative method	Values before correction (Reference or/and alternative method)	Mean	Difference	Lower / Upper limits
CFB-ISO or simplified	Interpretable by both methods	2	a	562	Chicken wings without skin	2,88	2,37	/	2,62	-0,51	-0,43 / 0,58
		2	b	1420	Poultry neck skin	3,04	2,60	/	2,82	-0,44	
		2	c	**760**	**Cooked poultry meat**	2,15	1,70	/	1,92	-0,45	
		2	b	1419	Poultry neck skin	1,60	2,48	/	2,04	0,88	
		2	b	1422	Poultry neck skin	3,30	3,89	/	3,60	0,59	
	< 4 CFU/plate	2	a	563	Turkey leg without skin	2,98	1,00	/	1,99	-1,98	
		2	a	706	Chicken wings (MAP)	1,78	1,30	/	1,54	-0,48	
		2	a	985	Chicken drumsticks	1,93	1,15	/	1,54	-0,78	
		3	a	8644	Waste (Poultry skin and leg)	1,90	1,00	/	1,45	-0,90	
		3	a	8647	Waste (Poultry head)	1,00	2,00	/	1,50	1,00	
	Corrected values	1	a	**1411**	**Ground beef**	0,70	0,00	1,00	0,35	-0,70	
		2	a	564	Chicken pieces with skin	1,98	0,00	1,00	0,99	-1,98	
		2	b	1417	Poultry neck skin	1,60	0,00	1,00	0,80	-1,60	
		2	b	1402	Frozen Guinea-fowl liver	0,85	0,00	1,00	0,43	-0,85	
		3	b	1435	Beef slaughter-house environmental sample(wipe)	2,00	0,00	3,00 / 1,00	1,00	-2,00	
		3	b	1438	Pork slaughter-house environmental sample(wipe)	2,00	1,00	3,00 / 2,00	1,50	-1,00	
		3	a	984	Chicken wings	0,00	1,70	1,00	0,85	1,70	
		3	a	997	Quail	0,00	1,00	1,00 / 2,00	0,50	1,00	
		3	b	1418	Poultry neck skin	0,00	1,30	1,00	0,65	1,30	

Protocol	Classification of the data	Category	Type	N° Sample	Product	Reference method	Alternative method	Values after correction (Reference or/and alternative method)	Mean	Difference	Lower / Upper limits
CFB-VIDAS CAM	Interpretable by both methods	2	a	562	Chicken wings without skin	2,88	2,37	/	2,62	-0,51	-0,44 / 0,61
		2	c	**760**	**Cooked poultry meat**	2,15	1,70	/	1,92	-0,45	
		2	b	1419	Poultry neck skin	1,60	2,48	/	2,04	0,88	
	< 4 CFU/plate	2	a	706	Chicken wings (MAP)	1,78	1,30	/	1,54	-0,48	
		2	a	985	Chicken drumsticks	1,93	1,15	/	1,54	-0,78	
		2	a	8644	Waste (Poultry skin and leg)	1,90	1,00	/	1,45	-0,90	
		3	a	8647	Waste (Poultry head)	1,00	1,95	/	1,48	0,95	
	Corrected values	1	a	**1411**	**Ground beef**	0,70	0,00	1,00	0,35	-0,70	
		2	a	563	Turkey leg without skin	2,98	0,00	1,00	1,49	-2,98	
		2	a	564	Chicken pieces with skin	1,98	0,00	1,00	0,99	-1,98	
		2	b	1417	Poultry neck skin	1,60	0,00	1,00	0,80	-1,60	
		2	b	1402	Frozen Guinea-fowl liver	0,85	0,00	1,00	0,43	-0,85	
		3	b	1435	Beef slaughter-house environmental sample(wipe)	2,00	0,00	1,00	1,00	-2,00	
		3	b	1438	Pork slaughter-house environmental sample(wipe)	2,00	1,00	3,00 / 2,00	1,50	-1,00	
		2	a	984	Chicken wings	0,00	1,90	1,00	0,95	1,90	
		2	a	997	Quail	0,00	1,00	1,00 / 2,00	0,50	1,00	
		3	b	1418	Poultry neck skin	0,00	1,60	1,00	0,80	1,60	

3.3.5 Discordant results

The samples with discrepant results are classified in three categories.

Table 6 - Classification of the samples

Protocol	Number of samples with results in favour of the reference method	Number of samples with results in favour of the alternative method	Number of samples with equivalent results with the reference and the alternative methods
PSD-ISO or simplified	2	4	4
PSD-VIDAS CAM	0	5	3
CFB-ISO or simplified	10	3	4
CFB-VIDAS-CAM	9	2	5

For the overall study, 16 discrepant results were linked to the fact that no colony or very few colonies were present on the plates (equivalent results with both methods).

When PSD was used for the preparation of the initial suspension (same diluent for reference and alternative methods), higher enumerations were observed using the CFA plates (4 or 5 samples concerned depending on the confirmatory tests applied). Only 2 samples gave higher enumerations using the ISO method (samples 985 and 708).

When CFB was used for preparation of initial suspension for the alternative method, more diffrences were observed between the two tested methods: 13 samples concerned when using the ISO or simplified methods, and 11 when using the VIDAS CAM). This can easily be explained by the fact that different tests portions were used for enumeration. In this case, higher enumerations were mainly observed with the ISO method. However, even in this case, the confidence limits remain very tight for this type of tests.

3.3.6 Conclusion

The relative trueness of the alternative method is satisfying; the alternative method and the reference method are considered equivalent whatever the diluents used for the initial suspension and the confirmatory protocol applied.

3.4 Accuracy profile study

The accuracy profile is a graphical representation of the capacity of measurement of the quantitative method, obtained by combining acceptability intervals and β-expectation tolerance intervals, both reported to different levels of the reference value.

The accuracy profile study is a comparative study between the results obtained by the reference method and the results of the alternative method. According to ISO 16140-2:2016, this study was conducted using artificially contaminated samples. One type per category was tested with 1 item per type and 2 batches per item.

A minimum of one type per category, and therefore 2 different batches, is selected, using 6 samples per type. 2 samples are contaminated at a low level, 2 at intermediate level, 2 at a high level. For each sample, 5 replicates (5 different test portions) are tested.

3.4.1 Matrices

Three matrices were tested with three contamination levels and five test portions per level. The tested categories, types, matrix and inoculated strains are provided in Table 7.

Table 7 - Categories, types, items, strains and inoculation levels for accuracy profile study

Category	Type	Item	Inoculated strain	Origin	Batch	Inoculation level
Poultry products	Processed meat product	Duck pâté	*Campylobacter jejuni* Ad1015	Chicken meat	1	Level 1 ×5: 100 CFU/g
						Level 2 ×5: 1000 CFU/g
						Level 3 ×5: 10 000 CFU/g
					2	Level 1 ×5: 100 CFU/g
						Level 2 ×5: 1000 CFU/g
						Level 3 ×5: 10 000 CFU/g
Meat products	Meat products	Raw pork meat	*Campylobacter coli* Ad1972	Pork meat	1	Level 1 ×5: 100 CFU/g
						Level 2 ×5: 1000 CFU/g
						Level 3 ×5: 10 000 CFU/g
					2	Level 1 ×5: 100 CFU/g
						Level 2 ×5: 1000 CFU/g
						Level 3 ×5: 10 000 CFU/g
Environmental samples	Water used in manufacturing process	Process water	*Campylobacter jejuni* Ad1000	Poultry	1	Level 1 ×5: 100 CFU/g
						Level 2 ×5: 1000 CFU/g
						Level 3 ×5: 10 000 CFU/g
					2	Level 1 ×5: 100 CFU/g
						Level 2 ×5: 1000 CFU/g
						Level 3 ×5: 10 000 CFU/g

Samples were individualy inoculated with a different *Campylobacter* strain. The inoculum was prepared by proceeding to a culture (microbead) in Brucella broth incubated for 48 h in microaerobic conditions at 41.5°C. A subculture was run in the same broth for 48 h at 41.5°C.
The culture was diluted in PSD in order to inoculate the target inoculation level in the matrix. The samples were analysed by both methods just after inoculation.

3.4.1 Calculation and interpretation

The statistical results and the accuracy profiles are provided Figure 7.

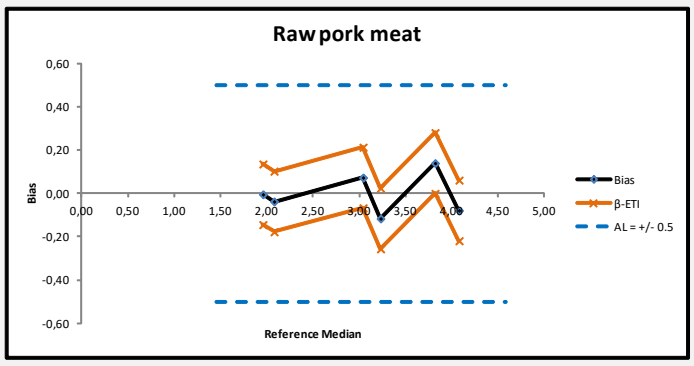
The calculations were done using the AP Calculation Tool MCS (Clause 6-1-3-3 calculation and interpretation of accuracy profile study) ver 2027-01-2015 available on http://standards.iso.org/iso/16140

Figure 7 – Accuracy profile

PSD

Global Results

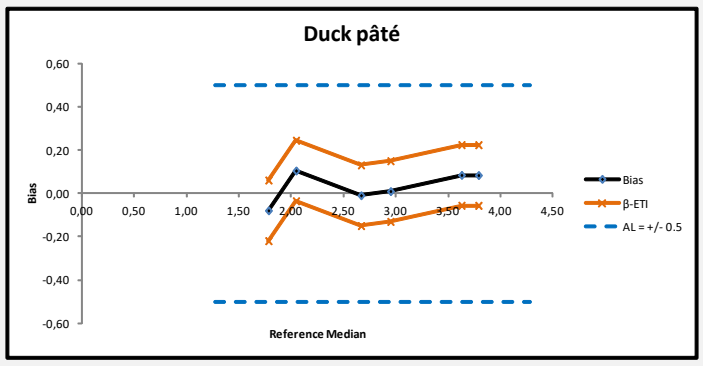
(Food) Category	Meat products
(Food) Type	Raw pork meat



Sample Name	Reference central value	Bias	Lower β-ETI	Upper β-ETI	β-ETI compared to AL=±0.5 Acceptable	β-ETI compared to final AL Acceptable
8899-8903	1,96	-0,005	-0,145	0,135	YES	YES
8914-8918	2,08	-0,038	-0,178	0,102	YES	YES
8919-8923	3,04	0,073	-0,067	0,213	YES	YES
8904-8908	3,23	-0,117	-0,257	0,024	YES	YES
8924-8928	3,82	0,139	-0,001	0,280	YES	YES
1508-1512	4,08	-0,079	-0,219	0,061	YES	YES

	Reference method	Alternative method	SD repeatability of reference method <= 0.125	Final AL
SD Repeatability	0,120	0,097	YES	+/- 0,500

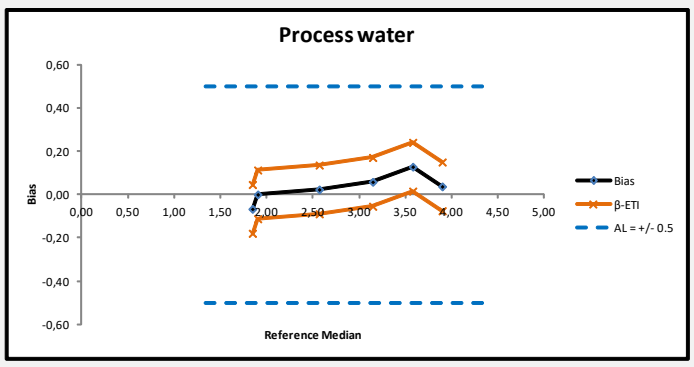
(Food) Category	Poultry products
(Food) Type	Duck pâté



Sample Name	Reference Central value	Bias	Lower β-ETI	Upper β-ETI	β-ETI compared to AL=±0.5 Acceptable	β-ETI compared to final AL Acceptable
9338-9342	1,78	-0,079	-0,219	0,061	YES	YES
9313-9317	2,04	0,105	-0,035	0,245	YES	YES
9343-9347	2,66	-0,010	-0,150	0,130	YES	YES
9318-9322	2,94	0,010	-0,130	0,150	YES	YES
9348-9352	3,62	0,084	-0,056	0,224	YES	YES
9323-9327	3,79	0,084	-0,056	0,224	YES	YES

	Reference method	Alternative method	SD repeatability of reference method <= 0.125	Final AL
SD Repeatability	0,081	0,097	YES	+/- 0,500

(Food) Category	Environmental sample
(Food) Type	Process water



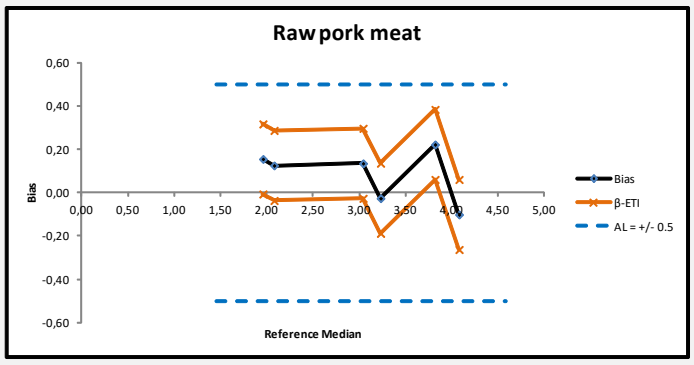
Sample Name	Reference Central value	Bias	Lower β-ETI	Upper β-ETI	β-ETI compared to AL=±0.5 Acceptable	β-ETI compared to final AL Acceptable
1513-1517	1,85	-0,067	-0,180	0,046	YES	YES
1523-1527	1,90	0,000	-0,113	0,113	YES	YES
1754-1758	2,57	0,023	-0,090	0,135	YES	YES
1518-1522	3,15	0,058	-0,055	0,171	YES	YES
1273-1277	3,58	0,128	0,015	0,240	YES	YES
1533-1537	3,90	0,037	-0,076	0,149	YES	YES

	Reference method	Alternative method	SD repeatability of reference method <= 0.125	Final AL
SD Repeatability	0,095	0,078	YES	+/- 0,500

CFB

Global Results

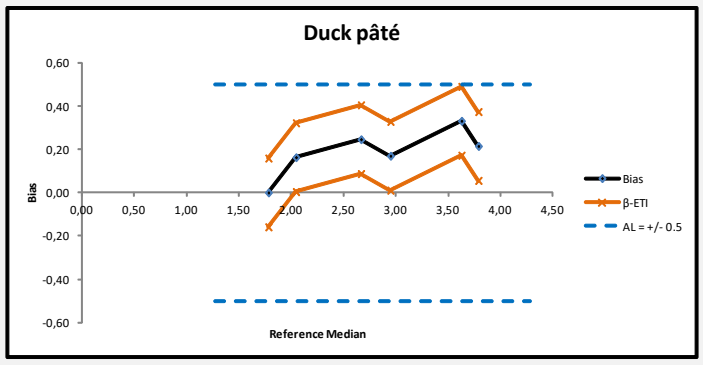
(Food) Category	Meat products
(Food) Type	Raw pork meat



Sample Name	Reference central value	Bias	Lower β-ETI	Upper β-ETI	β-ETI compared to AL=±0.5 Acceptable	β-ETI compared to final AL Acceptable
8899-8903	1,96	0,155	-0,007	0,317	YES	YES
8914-8918	2,08	0,125	-0,037	0,287	YES	YES
8919-8923	3,04	0,135	-0,027	0,296	YES	YES
8904-8908	3,23	-0,026	-0,188	0,135	YES	YES
8924-8928	3,82	0,222	0,060	0,384	YES	YES
1508-1512	4,08	-0,101	-0,263	0,060	YES	YES

	Reference method	Alternative method	SD repeatability of reference method <= 0.125	Final AL
SD Repeatability	0,120	0,112	YES	+/- 0,500

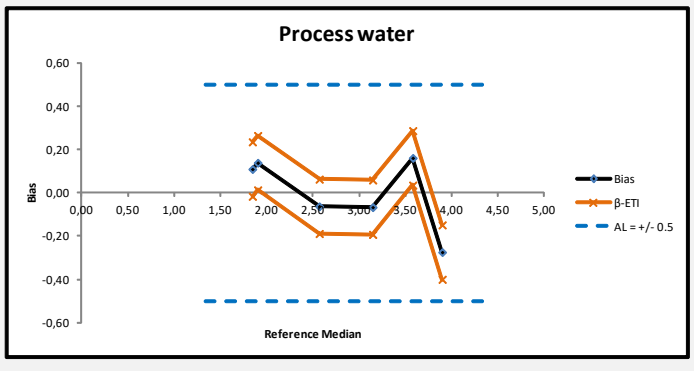
(Food) Category	Poultry products
(Food) Type	Duck pâté



Sample Name	Reference Central value	Bias	Lower β-ETI	Upper β-ETI	β-ETI compared to AL=±0.5 Acceptable	β-ETI compared to final AL Acceptable
9338-9342	1,78	0,000	-0,159	0,159	YES	YES
9313-9317	2,04	0,163	0,004	0,322	YES	YES
9343-9347	2,66	0,246	0,087	0,405	YES	YES
9318-9322	2,94	0,169	0,011	0,328	YES	YES
9348-9352	3,62	0,331	0,172	0,490	YES	YES
9323-9327	3,79	0,215	0,056	0,373	YES	YES

	Reference method	Alternative method	SD repeatability of reference method <= 0.125	Final AL
SD Repeatability	0,081	0,110	YES	+/- 0,500

(Food) Category	Environmental sample
(Food) Type	Process water



Sample Name	Reference Central value	Bias	Lower β-ETI	Upper β-ETI	β-ETI compared to AL=±0.5 Acceptable	β-ETI compared to final AL Acceptable
1513-1517	1,85	0,109	-0,016	0,235	YES	YES
1523-1527	1,90	0,138	0,013	0,264	YES	YES
1754-1758	2,57	-0,063	-0,189	0,063	YES	YES
1518-1522	3,15	-0,067	-0,193	0,059	YES	YES
1273-1277	3,58	0,161	0,035	0,286	YES	YES
1533-1537	3,90	-0,274	-0,400	-0,149	YES	YES

	Reference method	Alternative method	SD repeatability of reference method <= 0.125	Final AL
SD Repeatability	0,095	0,087	YES	+/- 0,500

3.4.2 Conclusion

The observed profiles are comprised within the Acceptability Limit (AL) fixed at ± 0.5 log for both diluents (PSD and CFB). All the accuracy profiles fulfil the performance criteria defined in the ISO 16140-2:2016.

3.5 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.

3.5.1 Protocol

- **Inclusivity**

In 2010, for the initial validation study, 41 target strains were tested. After growth in appropriate conditions in Brucella broth, decimal dilutions were realised and enumerated in duplicate by CampyFood method and ISO/TS 10272-2 standard. Dilutions were enumerated in parallel with a non-selective agar (CBA).

For the renewal study run in 2018, nine additional strains were tested in order to have the 50 strains required. The enumerations were performed once on the three plates (CFA, mCCDA and CBA) with inoculation levels resulting in a countable number of CFU on the plates.

- **Exclusivity**

For the initial validation study, 28 non-target strains were tested. After growth in appropriate conditions, decimal dilutions were realised and enumerated in duplicate by CampyFood method and ISO/TS 10272-2 standard. Dilutions were enumerated in parallel with a non-selective agar (CBA).

For the renewal study, 2 additional strains were tested in order to have the 30 strains required. The enumerations were performed once by both methods with inoculation levels resulting in a countable number of CFU on the plates.

- **Extension study for *Campylobacter* latex test (ADRIA 2014)**

152 strains were grown in CFB for 48 h ± 4 h at 41,5°C before streaking on CBA and CFA. The plates were then incubated for 40-48 h at 41.5°C. After incubation, an isolated colony was tested with the latex test according to the manufacturer instructions. The same protocol was applied for the 101 non-target strains, except that the culture was performed in BHI.

- **Extension study for VITEK MS (ADRIA 2016)**

150 target strains and 100 non-target strains (1 colony and 1 spot/strain) were tested after isolation from CFB (target strains) or BHI (non target strains) on Columbia blood agar and CFA (incubation at 41.5 °C during 40 h - 48 h).

3.5.2 Results

The raw data are provided in **Annex 4**.

- **Inclusivity**

50 strains were tested. All the targeted strains belonging to the *C. coli, C. jejuni* and *C. lari* species showed characteristic colonies on CFA and mCCDA. Note that CFA recovery level was often higher than mCCDA recovery one.
All the colonies were confirmed with the VIDAS CAM test, except in one case for *Campylobacter lari* CIP 102722. The nine strains tested for the renewal study gave positive latex tests.
The four C*ampylobacter upsaliensis* strains tested neither grew on CFA, nor on mCCDA.

- **Exclusivity**

Among the 30 tested strains, three gave characteristic or doubtful colonies on CFA: *Arcobacter butzleri* Ad1126 and Ad1881, and *Ralstonia mannitolityca* Ad1059. For this last strain, characteristic colonies were also observed on mCCDA plates. The three strains gave a negative VIDAS CAM result.

The alternative method shows satisfying inclusivity and exclusivity performances for the tested strains.

Extension study for Campylobacter latex test (ADRIA 2014)

The raw data are provided **Annex 5**

The results were the following:

- Inclusivity:
  * Latex tests realised on colonies isolated on Columbia blood agar (CBA): All the target strains gave a positive latex test. For twelve strains, it was necessary to test a pool of 2 or 3 colonies to obtain a posistive latex test.
  * Latex tests realised on colonies isolated on CFA: Five *Campylobacter upsaliensis* were not able to grow on CFA plates. For 9 strains, it was necessary to test a pool of 2 or 3 colonies to have a positive latex test.

- Exclusivity: Two strains gave a positive or doudtful latex test (Aeromonas hydrophila CIP7330 and Chrysobacterium ureilyticum Ad340) when tested from CBA. Twenty strains were able to grow on Campyfood agar; 11 of them gave doudtful colonies and all gave a negative latex test.

Extension study for VITEK MS. (ADRIA 2016)

The raw data are provided in **Annex 6**.

One hundred and fifty strains were tested; one colony and one spot were tested per strain. All the strains gave typical colonies on CampyFood Agar (CFA) plates and all were confirmed as *Campylobacter* spp. with the VITEK MS, except in one case (strain No 51: *Campylobacter coli* Ad1939). A summary of the results is given Table 8.

Table 8 - Summary of the results obtained for inclusivity

	CFA	CBA
Number of strains tested	150	150
Number of strains confirmed as *Campylobacter* spp.	149	150
Number of strains with no confirmation	1 (*Campylobacter coli* Ad1939)	0

None of the 100 tested non-target strains were confirmed as Campylobacter with the VITEK MS.

For 13 strains, the VITEK MS didn't give a result. Eight of them were not present in the database (genus); 3 other strains were not present at all (species). For two strains, there was no explanation for this "no result" but most importantly these strains were not confirmed as *Campylobacter* spp.

A summary of the results is given Table 9.

Table 9 - Summary of the results obtained for exclusivity

	CFA	CBA
Number of strains tested	100	100
Number of strains which did not grow on the plate	78	0
Number of characteristic strains on the plate	22	/
Number of strains with no result	0	13
Number of strains confirmed as *Campylobacter* spp.	**0**	**0**

The technology is here dedicated to *Campylobacter* spp confirmation. Strains identification is of course related to the extension and the robustness of the database and is not the purpose of the study. All the negative strains were either not able to grow on the tested agars, or not confirmed as *Campylobacter* spp with the VITEK® MS.

> Extension study for VITEK MS PRIME (bioMérieux 2022)

Three studies were performed to demonstrate the equivalence between the VITEK® MS and VITEK® MS PRIME. In the first study 477 claimed species (one strain per species tested in triplicate) were tested including some critical pathogens from all microorganism groups. The second study was a clinical trial study where three sites tested 100 species (5 strains per species). Lastly, a specific study for *Camplylobacter* was performed where 20 target strains and 8 non-target strains were evaluated. Results of the study demonstrated equivalence between the VITEK® MS and VITEK® MS Prime.

3.6 Limit of quantification (LOQ)

The limit of Quantification (LOQ) is the lowest analyte concentration that can be quantified with an acceptable level of precision and trueness under the conditions of the test.

The LOQ applies only to instrumental methods. It does not apply to methods based on counting visible colonies as the alternative method is based on visible colonies.

The LOQ does not have to be calculated for the alternative method in this study.

4 INTER-LABORATORY STUDY

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

The results of the inter-laboratory study run in 2009 were interpreted according to the EN ISO 16140-2:2016 standard using the Excel spread sheet available at http://standards.iso.org/iso/16140 (AP Calculation tool ILS (clause 6.2.3 Calculation summary and interpretations of data) ver 14.03.2016.

4.1 Study organisation

Collaborator laboratories

15 laboratories participated to this study.

Samples

Raw poultry meat was inoculated by *Campylobacter jejuni* Ad 1000, isolated from turkey neck skin.

Inoculation

Inoculation levels, which were targeted, were:

- Level 0: <10 CFU/g,
- Level 1: 100 – 1 000 CFU/g,
- Level 2: 1 000 – 10 000 CFU/g,
- Level 3: 10 000 – 100 000 CFU/g.

Each laboratory received eight Stomacher bags of 10 g sample, i.e. two Stomacher bags per inoculation level. Furthermore, one non-inoculated sample was added to the package for total viable count microflora (ISO 4833 method).

Labelling and shipping

The sample preparation and expedition were realised on November 16, 2009. Blind-coded samples were placed in isothermal boxes, which contained cooling blocks, and express-shipped to the different laboratories.

A temperature control flask containing a temperature probe was added to each package in order to register temperature profile during transport and at reception.

Samples were shipped in 24 h to all the laboratories, which were participating to this ring trial. Sample temperature should be lower or equal to 8°C during transport, and between 0°C - 8°C at arrival.

Analyses

Interlaboratory study laboratories and the expert laboratory (laboratory P) performed the analyses with the alternative and reference methods.

4.2 Result analysis

4.2.1 Results obtained by the expert Lab.

The results obtained by the expert Lab. are the following (See Table 10).

Table 10 – Results obtained by the expert Lab.

Level	Reference method	Alternative method
L0	< 10 - < 10	< 10 - < 10
L1	580 -490	560 - 500
L2	4600 - 5100	2400 -3200
L3	44000 - 35000	39000 - 35000

4.2.2 Aerobic mesophilic flora enumeration

Depending on the lab results, the enumeration levels varied from 1 600 to 36 000 CFU/g.

4.2.3 Results obtained by the collaborators

Samples were sent to 15 collaborators. A summary of the test results is given in Table 11 (CFU/g) and Table 12 (log CFU/g).

Table 11 - Summary of data (CFU/g)

Labs	Level 0				Level 1				Level 2				Level 3			
	Reference method		Alternative method		Reference method		Alternative method		Reference method		Alternative method		Reference method		Alternative method	
A	<10	<10	<10	<10	620	580	550	530	4900	5400	4100	3000	59000	51000	44000	45000
B	<10	<10	<10	<10	230	390	360	430	4900	4600	3300	3600	20000	39000	26000	45000
C	<10	<10	<10	<10	110	55	<40	<40	1100	1100	580	610	3300	2900	1400	5000
D	<10	<10	<10	<10	360	320	270	640	4400	6500	3900	8200	48000	52000	31000	50000
E	<10	<10	<10	<10	280	300	290	350	2200	2300	2000	3200	16000	38000	8200	42000
F	<10	<10	<10	<10	370	320	360	480	2800	2300	2800	1500	3300	17000	2300	16000
G	<10	<10	<10	<10	300	430	330	370	2500	3100	1600	2400	16000	17000	35000	28000
H	<10	<10	<10	<10	410	530	80	380	1300	1700	1100	1000	7700	9100	2500	7500
I	<10	<10	<10	<10	370	530	200	230	4600	3700	2900	2100	16000	27000	9500	16000
J	<10	<10	<10	<10	360	270	250	260	3300	5300	3300	1800	44000	44000	41000	30000
K	<10	<10	<10	<10	320	380	270	240	3000	4600	2600	1100	52000	51000	17000	14000
L	<10	<10	<10	<10	570	630	620	550	8500	8200	7500	8600	79000	87000	80000	87000
M	<10	<10	<10	<10	410	480	430	500	3500	4600	4100	2800	54000	25000	10000	10000
N	<10	<10	<10	<10	540	450	540	280	4800	2500	2400	3400	25000	39000	23000	15000
O	<10	<10	<10	<10	59	32	27	18	280	380	240	160	4000	3900	2600	3600

Table 12 - Summary of data (log CFU/g)

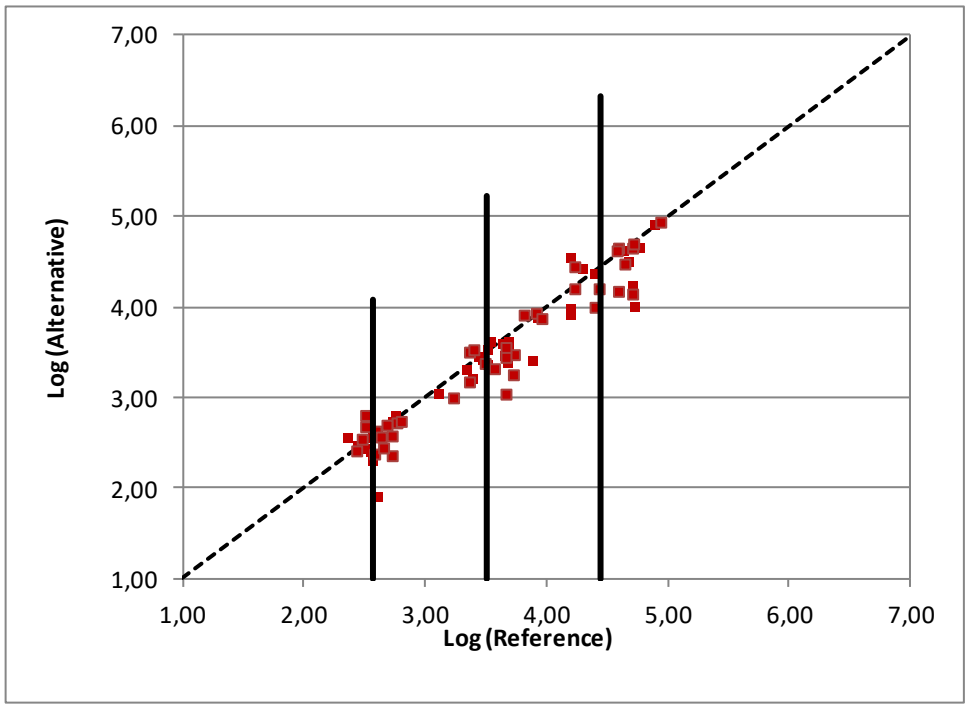
Labs	Level 0				Level 1				Level 2				Level 3			
	Reference method		Alternative method		Reference method		Alternative method		Reference method		Alternative method		Reference method		Alternative method	
A	<1	<1	<1	<1	2,792	2,763	2,740	2,724	3,690	3,732	3,613	3,477	4,771	4,708	4,643	4,653
B	<1	<1	<1	<1	2,362	2,591	2,556	2,633	3,690	3,663	3,519	3,556	4,301	4,591	4,415	4,653
C	**<1**	**<1**	**<1**	**<1**	**2,041**	**1,740**	**<1,60**	**<1,60**	**3,041**	**3,041**	**2,763**	**2,785**	**3,519**	**3,462**	**3,146**	**3,699**
D	<1	<1	<1	<1	2,556	2,505	2,431	2,806	3,643	3,813	3,591	3,914	4,681	4,716	4,491	4,699
E	<1	<1	<1	<1	2,447	2,477	2,462	2,544	3,342	3,362	3,301	3,505	4,204	4,580	3,914	4,623
F	<1	<1	<1	<1	2,568	2,505	2,556	2,681	3,447	3,362	3,447	3,176	3,519	4,230	3,362	4,204
G	<1	<1	<1	<1	2,477	2,633	2,519	2,568	3,398	3,491	3,204	3,380	4,204	4,230	4,544	4,447
H	<1	<1	<1	<1	2,613	2,724	1,903	2,580	3,114	3,230	3,041	3,000	3,886	3,959	3,398	3,875
I	<1	<1	<1	<1	2,568	2,724	2,301	2,362	3,663	3,568	3,462	3,322	4,204	4,431	3,978	4,204
J	<1	<1	<1	<1	2,556	2,431	2,398	2,415	3,519	3,724	3,519	3,255	4,643	4,643	4,613	4,477
K	<1	<1	<1	<1	2,505	2,580	2,431	2,380	3,477	3,663	3,415	3,041	4,716	4,708	4,230	4,146
L	<1	<1	<1	<1	2,756	2,799	2,792	2,740	3,929	3,914	3,875	3,934	4,898	4,940	4,903	4,940
M	<1	<1	<1	<1	2,613	2,681	2,633	2,699	3,544	3,663	3,613	3,447	4,732	4,398	4,000	4,000
N	<1	<1	<1	<1	2,732	2,653	2,732	2,447	3,681	3,398	3,380	3,531	4,398	4,591	4,362	4,176
O	**<1**	**<1**	**<1**	**<1**	**1,771**	**1,505**	**1,431**	**1,255**	**2,447**	**2,580**	**2,380**	**2,204**	**3,602**	**3,591**	**3,415**	**3,556**

4.3 Calculation and interpretation

4.3.1 Visual linearity checking

The Figure 8 shows the data points after log_{10} transformation. The visual inspection shows that the alternative method gives results, which are proportional to those of the reference method.

Figure 8 - Visual linearity checking



4.3.2 Accuracy profile calculation

Statistical calculations were done according to the Excel spreadsheet available on http://standards.iso.org/ISO/16140. A summary of the statistical test is provided in Table 13.

Table 13 - Summary of statistical tests

Accuracy profile		0,5					
Study Name		CampyFood					
Date		2009					
Coordinator		ADRIA Développement					
Tolerance probability (beta)		80%	80%	80%			
Acceptability limit in log (lambda)		0,79	0,79	0,79			
		Alternative method			**Reference method**		
Levels		**Low**	**Medium**	**High**	**Low**	**Medium**	**High**
Target value		**2,601**	**3,566**	**4,457**			
Number of participants (K)		13	13	13	13	13	13
Average for alternative method		2,540	3,443	4,306	2,601	3,566	4,457
Repeatability standard deviation (sr)		0,167	0,146	0,253	0,078	0,096	0,191
Between-labs standard deviation (sL)		0,102	0,200	0,319	0,093	0,178	0,282
Reproducibility standard deviation (sR)		0,196	0,248	0,407	0,121	0,202	0,340
Corrected number of dof		22,781	16,891	17,506	17,861	15,042	16,370
Coverage factor		1,352	1,375	1,373			
Interpolated Student t		1,320	1,334	1,332			
Tolerance interval standard deviation		0,2003	0,2554	0,4193			
Lower TI limit		2,276	3,103	3,747			
Upper TI limit		2,804	3,784	4,864			
Bias		**-0,061**	**-0,123**	**-0,151**			
Relative Lower TI limit (beta = 80%)		**-0,325**	**-0,464**	**-0,710**	VRAI		
Relative Upper TI limit (beta = 80%)		**0,204**	**0,217**	**0,407**	FAUX		
Lower Acceptability Limit		**-0,79**	**-0,79**	**-0,79**			
Upper Acceptability Limit		**0,79**	**0,79**	**0,79**			
New acceptability limits may be based on reference method pooled variance							
Pooled repro standard dev of reference	0,239						

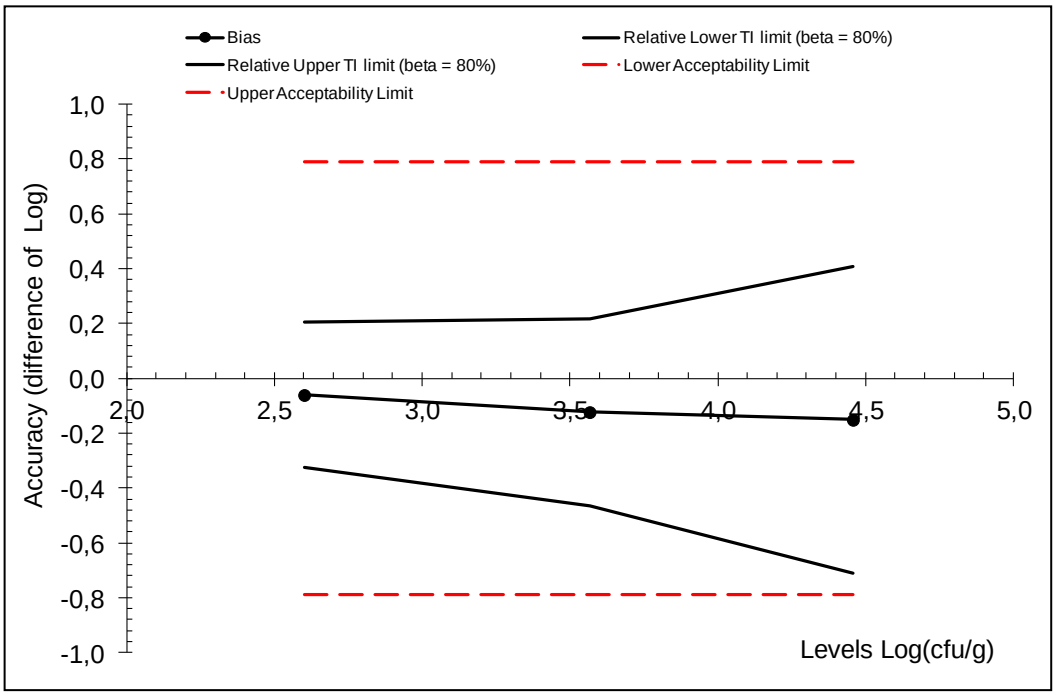
VRAI

Application of clause 6.2.3
Step 8: If any of the values for the β-ETI fall outside the acceptability limits, calculate the pooled average reproducibility standard deviation of the reference method.
Step 9: Calculate new acceptability limits as a function of this standard deviation.

If the β.ETI values are outside the acceptability limits of ± 0.5 log., the pooled average reproducibility standard deviation of the reference method is calculated, and new acceptability limits are calculated as a function of this standard deviation: ALs = 3.3 sR ref. = ± 0.79 log

These values are collected in a graphical representation together with the acceptability limits (AL). This representation is given Figure 9.

Figure 9 - Accuracy profile



It is observed that for all the levels, the tolerance interval limits of the alternative method are within the acceptable limits fixed at ± 0.79 log.

The alternative method is considered equivalent to the reference method.

5 CONCLUSION

The method comparison study conclusions are:

The observed data and interpretation confirm the performances of the alternative method:

- **152 samples were tested in the relative trueness study, providing 57 or 51 interpretable results by the reference and alternative methods respectively using PSD or CFB for the initial suspension preparation,** which clearly satisfied the required criteria for quantitative method comparison per ISO 16140-2.
- **The observed profiles are comprised within the AL actually set at ± 0.5 Log CFU/g in the EN ISO 16140-2:2016.**
- **The inclusivity and exclusivity testing shows satisfying results.**

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

☒ The quality assurance parameters were verified (*i.e.* inoculation, targeted levels, strain stability, logistic conditions, analyses), confirming that the inter-laboratory study was conducted in appropriate conditions.

☒ **The data interpretations were done according to the EN ISO 16140-2:2016**. For the three contamination levels, the alternative method is accepted as equivalent to the reference method.

Based on the results obtained for the method comparison study and the inter-laboratory study, the CampyFood Agar method is considered equivalent to the reference method.

Quimper, 28 October 2022

Maryse RANNOU
Project Manager
Validation of Alternative methods

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

6 REFERENCES

– International Standard: ISO 16140-1:2016 Microbiology of the food chain – Method validation. Part 1: Vocabulary. First Edition, 2016-06-15.

– International Standard: ISO 16140-2:2016 Microbiology of the food chain – Method validation. Part 2: Protocol for the validation of alternative (proprietary) methods against a reference method. First Edition, 2016-06-15.

– International Standard: ISO/TS 10272-2:2006 Microbiology of food and animal feeding stuffs – Horizontal method for detection and enumeration of *Campylobacter* spp. Part 2: Colony-count technique. First Edition, 2006-01.

– International Standard: ISO 10272-2:2017 Microbiology of the food chain – Horizontal method for detection and enumeration of *Campylobacter* spp. Part 2: Colony-count technique. First Edition, 2017-06.

– International Standard: ISO 6887-1:2017 Microbiology of the food chain – Preparation of test samples, initial suspension and decimal dilutions for microbiological examination. Part 1: General rules for the preparation of the initial suspension and decimal dilutions. Second Edition, 2017-03.

– International Standard: ISO 6887-2:2017 Microbiology of the food chain – Preparation of test samples, initial suspension and decimal dilutions for microbiological examination. Part 2: Specific rules for the preparation of meat and meat products. Second Edition, 2017-03.

– International Standard: ISO 18593:2004 Microbiology of food and animal feeding stuffs – Horizontal methods for sampling techniques from surfaces using contact plates and swabs. First Edition, 2004-06

Annex 1- Flow diagram of the reference method - Microbiology of the food chain - Horizontal method for detection and enumeration of *Campylobacter* spp. - ISO 10272 (2017) - Microbiology of the food chain - Horizontal method for detection and enumeration of *Campylobacter* spp - Part 2: Colony-count technique

Test portion: x g + xml + 9x g or 9 x ml

↓

Further decimal dilution series

↓

Surface inoculation of mCCD Agar (spreading method)

0.1 ml on 1 plate or 1 ml on 3 plates x 2 (estimation of low numbers)

↓

Incubation in a microaerobic atmosphere

at 41.5°C ± 1°C for 44 h ± 4 h

↓

Enumeration of characteristic colonies

(greyish, often with a metallic sheen, flat and moist)

↓

Confirmation

↓

Streak 5 typical colonies onto non-selective blood agar plate

(e.g. Columbia Blood agar)

↓

Incubation in a microaerobic atmosphere

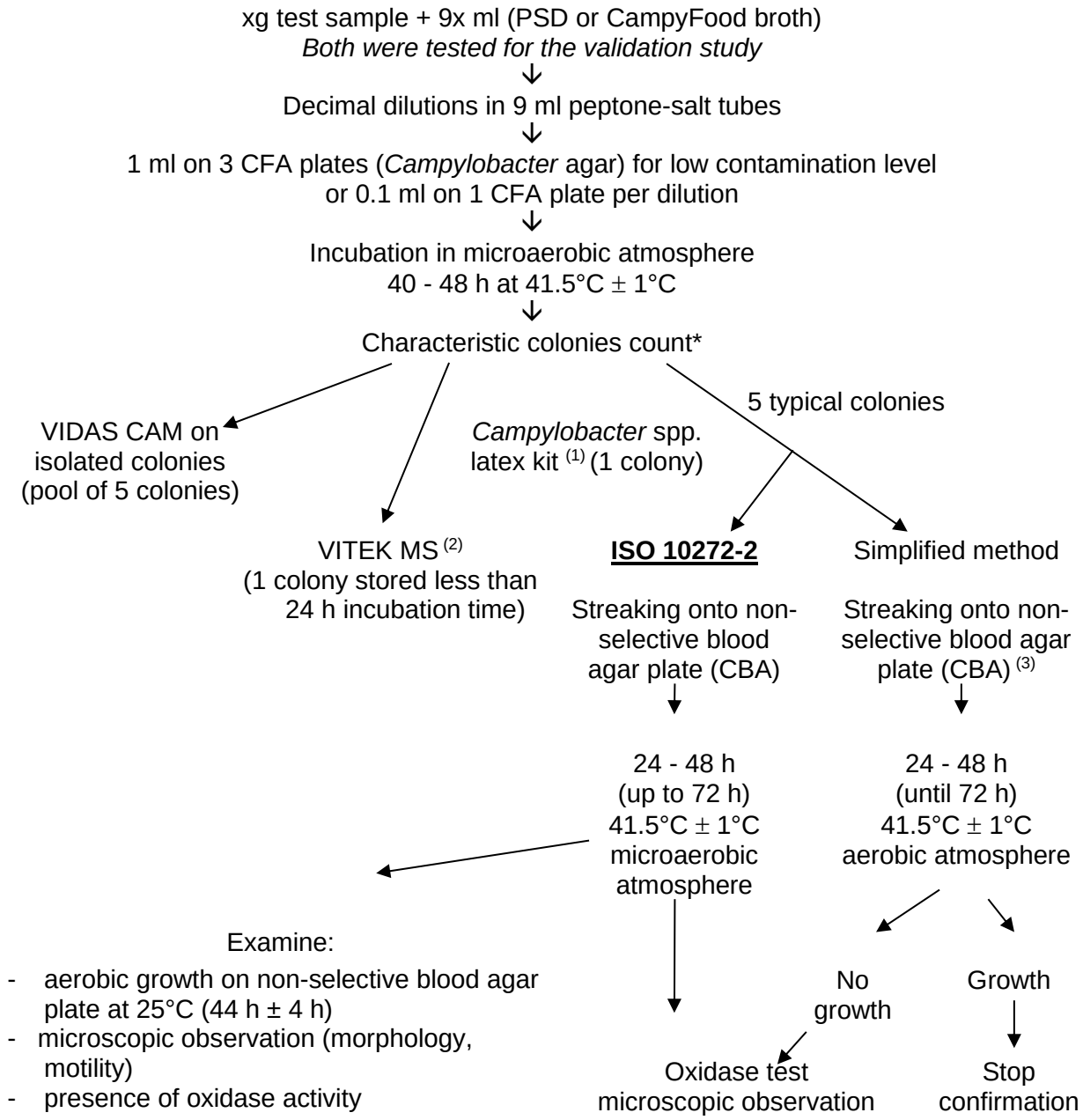
at 41.5°C ± 1°C for 24 h to 48 h

↓

Examine:

- Morphology
- Motility
- Aerobic growth at 25°C
- Presence of oxidase activity

Annex 2 - Flow diagram of the alternative method:
CampyFood Agar method



**During the validation study, an isolation step on CFA (5 characteristic colonies per dilution) was performed in order to test all the confirmation protocols on the same colony. For VIDAS CAM, the pool of 5 colonies was performed pooling 1 colony taken from each of the 5 CFA plates.*

(1) The use of the latex test after isolation on CBA has also been validated.

(2) The VITEK MS test can also be applied on a purified colony on blood agar

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Annex 3 - Relative trueness study: raw data

BM: background microflora

MEAT AND MEAT PRODUCTS (EXCEPT POULTRY)																					
Year of analysis	N°Sample	Product	Reference method: ISO 10272-2 ♦																	Category	Type
			Dilution	PSD																	
				CFU numerated								CFU confirmed						CFU/g		log CFU/g				
				Rep 1		Rep 2				Rep 1				Rep 2				Rep 1	Rep 2	Rep 1	Rep 2	Mean		
				a	b	a	b			a	b	a	b					a	b	a	b			
Initial	**1411**	**Ground beef**	10	1	1	1	0			1	1	1	0					10	5	1,00*	0,70*	0,70*	1	a
			100	0	0	0	0			0	0	0	0										1	a
Initial	**1413**	**Raw beef tripes**	100	82	114	71	108			82	114	71	108					9600	9100	3,98	3,96	3,97	1	a
			1000	10	6	9	13			10	6	9	13										1	a
Initial	**1415**	**Rib of pork**	10	32	32	51	44			32	32	51	44					330	490	2,52	2,69	2,60	1	a
			100	5	3	5	8			5	3	5	8										1	a
Initial	**1416**	**Veal liver**	100	113	96	125	150			113	96	125	150					11000	14000	4,04	4,15	4,09	1	a
			1000	19	11	18	12			19	11	18	12										1	a
2018	455	Pork feet	10	0						0								<10		<1,00		<1,00	1	a
			100	0						0													1	a
2018	456	Pork tails	10	0						0								<10		<1,00		<1,00	1	a
			100	0						0													1	a
2018	**757**	**Pork meat**	10	61						61								580		2,76		2,76	1	a
			100	3						3													1	a
2018	**758**	**Pork meat**	100	20						20								1900		3,28		3,28	1	a
			1000	1						1													1	a
2018	**759**	**Pork meat**	1000	25						25								25000		4,40		4,40	1	a
			10000	3						3													1	a
Initial	1066	Pork carcass N°1	10	0	0	0	0			0	0	0	0					<10	<10	<1,00	<1,00	<1,00	1	b
			100	0	0	0	0			0	0	0	0										1	b
Initial	1067	Pork carcass N°2	10	0	0	0	0			0	0	0	0					<10	<10	<1,00	<1,00	<1,00	1	b
			100	0	0	0	0			0	0	0	0										1	b
2017	9488	Sponge beef carcass	10	0						0								<10		<1,00		<1,00	1	b
			100	0						0													1	b
2017	9489	Sponge beef carcass	10	0						0								<10		<1,00		<1,00	1	b
			100	0						0													1	b
2017	9490	Sponge beef carcass	10	0						0								<10		<1,00		<1,00	1	b
			100	0						0													1	b
2017	9491	Sponge beef carcass	10	0						0								<10		<1,00		<1,00	1	b
			100	0						0													1	b
2017	9492	Sponge beef carcass	10	0						0								<10		<1,00		<1,00	1	b
			100	0						0													1	b
2017	9493	Sponge beef carcass	10	0						0								<10		<1,00		<1,00	1	b
			100	0						0													1	b

♦ Analyses performed according to the COFRAC accreditation

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MEAT AND MEAT PRODUCTS (EXCEPT POULTRY)																						
Year of analysis	N°Sample	Product	Reference method: ISO 10272-2 ♦																		Category	Type
			Dilution	PSD																		
				CFU numerated								CFU confirmed						CFU/g		log CFU/g				
				Rep 1				Rep 2				Rep 1				Rep 2		Rep 1	Rep 2	Rep 1	Rep 2	Mean		
				a		b		a		b		a		b		a		a	b	a	b			
2017	9494	Sponge beef carcass	10	0								0						<10		<1,00		<1,00	1	b
			100	0								0											1	b
2017	9495	Sponge beef carcass	10	0								0						<10		<1,00		<1,00	1	b
			100	0								0											1	b
2018	863	Sponge pork carcass	10	0								0						<10		<1,00		<1,00	1	b
			100	0								0											1	b
2018	864	Sponge pork carcass	10	0								0						<10		<1,00		<1,00	1	b
			100	0								0											1	b
2018	**939**	**Sponge beef carcass**	10	14								14						160		2,20		2,20	1	b
			100	3								3											1	b
2018	**940**	**Sponge beef carcass**	100	36								36						3900		3,59		3,59	1	b
			1000	7								7											1	b
2018	**941**	**Sponge pork carcass**	100	21								21						2000		3,30		3,30	1	b
			1000	1								1											1	b
2018	**942**	**Sponge pork carcass**	10	160								160						1600		3,20		3,20	1	b
			100	12								12											1	b
2018	**943**	**Sponge pork carcass**	100	122								122						12000		4,08		4,08	1	b
			1000	14								14											1	b
Initial	**1412**	**Beef Carpaccio**	10	66	55		35		39		66	55		35		39		660	360	2,82	2,56	2,69	1	c
			100	8	15		2		3		8	15		2		3							1	c
Initial	**1414**	**Sausage-meat**	10	303	297		220		250		303	297		220		250		3100	2400	3,49	3,38	3,44	1	c
			100	43	46		26		35		43	46		26		35							1	c
2018	**3116**	**Smoked bacon**	10	4								4						40		1,60		1,60	1	c
			100	1								1						Ne		Ne		Ne	1	c
2018	**3117**	**Dried beef meat**	100	6								6						600		2,78		2,78	1	c
			1000	0								0						Ne		Ne		Ne	1	c
2018	**3118**	**Sausage**	1000	43								43						41000		4,61		4,61	1	c
			10000	2								2											1	c
Initial	1407	Sausage meat	10	32	23		24		36		32	23		24		36		270	320	2,43	2,51	2,47	1	c
			100	2	3		3		8		2	3		3		8							1	c

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POULTRY AND POULTRY PRODUCTS																						
Year of analysis	N°Sample	Product	Reference method: ISO 10272-2 ♦																	Category	Type
			Dilution	PSD																		
				CFU numerated								CFU confirmed				CFU/g		log CFU/g				
				Rep 1				Rep 2				Rep 1				Rep 1	Rep 2	Rep 1	Rep 2	Mean		
				a		b		a		b		a		b		a	b	a	b			
Initial	562	Chicken wings without skin	10	66		65		111		66		66		65		111		66		650	890	2,81	2,95	2,88	2	a
			100	1		10		11		7		1		10		11		7							2	a
Initial	563	Turkey leg without skin	10	5		0		95		101		5		0		95		101		25	950	1,40	2,98	2,98	2	a
			100	1		1		10		3		1		1		10		3				Ne			2	a
Initial	564	Chicken pieces with skin	10	1		1		7		14		1		1		6		14		10	95	1,00*	1,98	1,98	2	a
			100	0		0		0		1		0		0		0		1					Ne		2	a
Initial	706	Chicken wings (MAP)	10	5		7		2		2		5		7		2		2		60	20	1,78	1,30*	1,78	2	a
			100	0		1		1		0		0		1		/		0				Ne			2	a
Initial	707	White chicken leg (MAP)	10	1		2		0		0		1		2		0		0		15	<10	1,18*	<1,00	1,18*	2	a
			100	1		0		0		0		/		0		0		0							2	a
Initial	708	Chicken drumstick (MAP)	10	4		4		0		1		4		4		0		1		40	10	1,60	1,00*	1,60	2	a
			100	1		0		0		0		1		0		0		0				Ne			2	a
Initial	984	Chicken wings	10	0		0		0		0		0		0		0		0		<10	<10	<1,00	<1,00	<1,00	2	a
			100	0		0		0		0		0		0		0		0							2	a
Initial	985	Chicken drumsticks	10	10		7		2		1		10		7		2		0		86	15	1,93	1,18*	1,93	2	a
			100	1		1		1		0		1		1		1		0		Ne		Ne			2	a
Initial	997	Quail	10	0		0		0		0		0		0		0		0		<10	<10	<1,00	<1,00	<1,00	2	a
			100	0		0		0		0		0		0		0		0							2	a
Initial	998	Cockerel	10	0		0		0		0		0		0		0		0		<10	<10	<1,00	<1,00	<1,00	2	a
			100	0		0		0		0		0		0		0		0							2	a
Initial	1004	Chicken leg(MAP)	10	8		9		10		14		8		9		10		14		85	120	1,93	2,08	2,00	2	a
			100	0		1		0		3		0		1		0		2				Ne			2	a
Initial	1005	Chicken drumsticks(MAP)	10	5		0		4		2		5		0		4		2		25	30	1,40*	1,48*	1,44*	2	a
			100	1		0		1		1		1		0		1		1							2	a
Initial	1006	Chicken wings(MAP)	10	77		66		44		82		77		66		44		82		670	630	2,83	2,80	2,81	2	a
			100	8		0		7		5		5		0		7		5							2	a
Initial	1059	Chicken VSM	100	85		66		53		69		85		53		53		69		7000	6100	3,85	3,79	3,82	2	a
			1000	5		12		3		10		5		12		3		10							2	a
Initial	1064	Chicken liver	10	83		91		92		95		83		91		92		95		890	980	2,95	2,99	2,97	2	a
			100	12		9		13		15		12		9		13		15							2	a
Initial	1068	Chicken neck meat	100	16		25		32		26		16		25		32		26		2000	2900	3,30	3,46	3,38	2	a
			1000	2		2		3		2		2		2		3		2							2	a
Initial	1060	Chicken carcass	10	2		2		1		1		2		2		1		1		20	10	1,30*	1,00*	1,15*	2	b
			100	0		0		1		0		0		0		/		0							2	b
Initial	1061	Chicken carcass	10	0		3		1		1		0		3		0		1		15	5	1,18	0,70*	1,18	2	b
			100	0		0		0		0		0		0		0		0							2	b
2018	1417	Poultry neck skin	10	5								4								40		1,60		1,60	2	b
			100	0								0								Ne		Ne			2	b

♦ Analyses performed according to the COFRAC accreditation

MICROVAL® NEN

POULTRY AND POULTRY PRODUCTS																				
Year of analysis	N°Sample	Product	Reference method: ISO 10272-2 ♦														Category	Type
			Dilution	PSD														
				CFU numerated				CFU confirmed				CFU/g		log CFU/g				
				Rep 1		Rep 2		Rep 1		Rep 2		Rep 1	Rep 2	Rep 1	Rep 2	Mean		
				a	b	a	b	a	b	a	b	a	b	a	b			
2018	1418	Poultry neck skin	10	4				0				<10		<1,00		<1,00	2	b
			100	0				0									2	b
2018	1419	Poultry neck skin	10	10				4				40		1,60		1,60	2	b
			100	1				0				Ne		Ne			2	b
2018	1420	Poultry neck skin	10	111				111				1100		3,04		3,04	2	b
			100	9				9									2	b
2018	1421	Poultry neck skin	100	45				45				4200		3,62		3,62	2	b
			1000	1				1									2	b
2018	1422	Poultry neck skin	100	21				21				2000		3,30		3,30	2	b
			1000	1				1									2	b
2018	1752	Poultry neck skin	1000	40				40				37000		4,57		4,57	2	b
			10000	1				1									2	b
2018	1753	Poultry neck skin	10000	0				0				<10000		<4,00		<4,00	2	b
			100000	0				0									2	b
Initial	1063	Chicken liver	10	85	87	91	109	85	87	91	109	880	1000	2,94	3,00	2,97	2	c
			100	11	10	16	6	11	10	16	6						2	c
Initial	1065	Duck liver pâté	10	0	0	0	0	0	0	0	0	<10	<10	<1,00	<1,00	<1,00	2	c
			100	0	0	0	0	0	0	0	0						2	c
Initial	**1097**	**Cooked chicken fillets**	10	0	0	0	0	0	0	0	0	<10	<10	<1,00	<1,00	<1,00	2	c
			100	0	0	0	0	0	0	0	0						2	c
Initial	**1098**	**Duck pâté**	10	6	5	8	2	6	5	8	2	55	50	1,74	1,70	1,72	2	c
			100	0	0	0	0	0	0	0	0			Ne	Ne	Ne	2	c
Initial	**1099**	**Duck liver**	10	27	30	22	34	27	30	22	34	270	290	2,43	2,46	2,45	2	c
			100	0	2	4	3	0	2	4	3						2	c
2018	457	Cooked poultry	10	0				0				<10		<1,00		<1,00	2	c
			100	0				0									2	c
2018	458	Cooked poultry	10	0				0				<10		<1,00		<1,00	2	c
			100	0				0									2	c
2018	**760**	**Cooked poultry meat**	10	14				14				140		2,15		2,15	2	c
			100	1				1									2	c
2018	**761**	**Cooked poultry meat**	10	17				17				170		2,23		2,23	2	c
			100	2				2									2	c
2018	**762**	**Cooked poultry meat**	100	15				15				1500		3,18		3,18	2	c
			1000	1				1									2	c

MICROVAL® NEN

ENVIRONMENTAL SAMPLES																				
Year of analysis	N°Sample	Product	Reference method: ISO 10272-2 ♦															Category	Type
			Dilution	PSD															
				CFU numerated								CFU confirmed				CFU/g		log CFU/g				
				Rep 1		Rep 2				Rep 1		Rep 2				Rep 1	Rep 2	Rep 1	Rep 2	Mean		
				a	b	a	b			a	b	a	b			a	b	a	b			
Initial	1403	Operator hands wipe	10	0	0	0	0			0	0	0	0			<10	<10	<1,00	<1,00	<1,00	3	a
			100	0	0	0	0			0	0	0	0								3	a
2017	8641	Waste (Poultry livers)	10	76						76						740		2,87		2,87	3	a
			100	5						5											3	a
2017	8642	Waste (Poultry gizzards)	1000	63						63						64000		4,81		4,81	3	a
			10000	7						7											3	a
2017	8643	Waste (Poultry skin and fat)	1000	85						85						85000		4,93		4,93	3	a
			10000	8						8											3	a
2017	8644	Waste (Poultry skin and leg)	10	10						8						80		1,90		1,90	3	a
			100	2						2						Ne		Ne			3	a
2017	8645	Waste (Poultry neck without skin)	10	10						10						90		1,95		1,95	3	a
			100	0						0											3	a
2017	8646	Waste (Poultry head)	10	6						6						60		1,78		1,78	3	a
			100	0						0						Ne					3	a
2017	8647	Waste (Poultry head)	10	1						1						10		1,00*		1,00*	3	a
			100	0						0											3	a
2018	1538	Poultry waste	10	32						32						320		2,51		2,51	3	a
			100	3						3											3	a
Initial	898	Poultry environmental sample	10	110	93	107	130			110	93	107	130			980	1200	2,99	3,08	3,04	3	b
			100	11	2	14	10			11	2	14	10								3	b
Initial	899	Poultry environmental sample	10	40	49	39	42			40	49	39	42			470	410	2,67	2,61	2,64	3	b
			100	7	8	3	6			7	8	3	5								3	b
Initial	1272	Environmental sample (feathery)N°1	100	ill	ill	ill	ill			ill	ill	ill	ill			<1000	<1000	<3,00	<3,00	<3,00	3	b
			1000	0(BM>150)	0(BM>150)	0(BM>150)	0(BM>150)			0(BM>150)	0(BM>150)	0(BM>150)	0(BM>150)								3	b
Initial	1273	Environmental sample (feathery)N°2	100	ill	ill	ill	ill			ill	ill	ill	ill			<1000	<1000	<3,00	<3,00	<3,00	3	b
			1000	0(BM>150)	0(BM>150)	0(BM>150)	0(BM>150)			0(BM>150)	0(BM>150)	0(BM>150)	0(BM>150)								3	b
Initial	1274	Environmental sample (feathery)N°4	100	ill	ill	ill	ill			ill	ill	ill	ill			<1000	<1000	<3,00	<3,00	<3,00	3	b
			1000	0(BM>150)	0(BM>150)	0(BM>150)	0(BM>150)			0(BM>150)	0(BM>150)	0(BM>150)	0(BM>150)								3	b
Initial	1275	Environmental sample (feathery)N°3	100	ill	ill	ill	ill			ill	ill	ill	ill			<1000	<1000	<3,00	<3,00	<3,00	3	b
			1000	0(BM>150)	0(BM>150)	0(BM>150)	0(BM>150)			0(BM>150)	0(BM>150)	0(BM>150)	0(BM>150)								3	b
Initial	1400	Environmental sample(Feathery)	10	55	58	81	101			55	58	81	101			540	920	2,73	2,96	2,85	3	b
			100	0	5	9	11			0	5	9	11								3	b
Initial	1401	Hook wipe	10	7	6	12	9			7	6	12	9			65	95	1,81	1,98	1,90	3	b
			100	2	3	0	0			2	3	0	0			Ne		Ne			3	b
Initial	1402	Frozen Guinea-fowl liver	10	0	2	1	0			0	2	1	0			10	5	1,00*	0,70*	0,85*	3	b
			100	0	0	0	0			0	0	0	0								3	b
Initial	1404	Evisceration podium wipe	100	67	60	88	82			54	48	70	66			5300	6500	3,72	3,81	3,77	3	b
			1000	4	11	8	5			3	11	6	1								3	b

♦ Analyses performed according to the COFRAC accreditation

MICROVAL® NEN

ENVIRONMENTAL SAMPLES																					
Year of analysis	N°Sample	Product	Reference method: ISO 10272-2 ♦																Category	Type
			Dilution	PSD																
				CFU numerated							CFU confirmed				CFU/g		log CFU/g				
				Rep 1		Rep 2					Rep 1		Rep 2		Rep 1	Rep 2	Rep 1	Rep 2	Mean		
				a	b	a	b				a	b	a	b	a	b	a	b			
Initial	1435	Beef slaughter-house environmental sample(wipe)	100	BM>150	BM>150	BM>150	BM>150				BM>150	BM>150	BM>150	BM>150	<1000	<1000	<3,00	<3,00	<3,00	3	b
			1000	0+BM	0+BM	0+BM	0+BM				0+BM	0+BM	0+BM	0+BM						3	b
Initial	1436	Beef slaughter-house environmental sample(wipe)	10	3	4	96	33				0	0	0	0	<10	<10	<1,00	<1,00	<1,00	3	b
			100	0	1	5	0				0	0	0	0						3	b
Initial	1437	Pork slaughter-house environmental sample(wipe)	100	BM>150	BM>150	BM>150	BM>150				BM>150	BM>150	BM>150	BM>150	<1000	<1000	<3,00	<3,00	<3,00	3	b
			1000	0+BM	0+BM	0+BM	0+BM				0+BM	0+BM	0+BM	0+BM						3	b
Initial	1438	Pork slaughter-house environmental sample(wipe)	100	BM>150	BM>150	BM>150	BM>150				BM>150	BM>150	BM>150	BM>150	<1000	<1000	<3,00	<3,00	<3,00	3	b
			1000	0+BM	0+BM	0+BM	0+BM				0+BM	0+BM	0+BM	0+BM						3	b
Initial	901	Refrigeration water(poultry)	10	79	56	7	7				79	56	7	6	680	65	2,83	1,81	2,32	3	c
			100	4	10	0	0				4	10	0	0		Ne		Ne		3	c
Initial	1276	Environmental sample (feathery)N°4	100	ill	ill	ill	ill				ill	ill	ill	ill	<1000	<1000	<3,00	<3,00	<3,00	3	c
			1000	0(BM>150)	0(BM>150)	0(BM>150)	0(BM>150)				0(BM>150)	0(BM>150)	0(BM>150)	0(BM>150)						3	c
Initial	1301	Environmental sample (feathery)N°2	100	ill	ill	ill	ill				ill	ill	ill	ill	<1000	<1000	<3,00	<3,00	<3,00	3	c
			1000	0(BM>150)	0(BM>150)	0(BM>150)	0(BM>150)				0(BM>150)	0(BM>150)	0(BM>150)	0(BM>150)						3	c
Initial	1398	Scalding water	10	0	0	0	0				0	0	0	0	<10	<10	<1,00	<1,00	<1,00	3	c
			100	0	0	0	0				0	0	0	0						3	c
Initial	1399	Feathery water	10	115	122	121	123				115	122	121	123	1200	1200	3,08	3,08	3,08	3	c
			100	13	10	16	6				13	10	16	6						3	c
2018	**3119**	**Process water**	10	0							0				<10		<1,00		<1,00	3	c
			100	0							0									3	c
2018	**3120**	**Process water**	100	0							0				<10		<1,00		<1,00	3	c
			1000	0							0									3	c
2018	**3121**	**Process water**	10	19							19				180		2,26		2,26	3	c
			100	1							1									3	c
Initial	1084	Process water	100	31	35	40	45				31	35	40	45	3500	4400	3,54	3,64	3,59	3	c
			1000	8	3	7	5				8	3	7	5						3	c
2018	**4720**	**Rinse water (pork industry)**	100	16							16				1600		3,20		3,20	3	c
			1000	2							2									3	c
2018	**4721**	**Process water (pork industry)**	1000	62							62				67000		4,83		4,83	3	c
			10000	12							12									3	c

MICROVAL® NEN

MEAT AND MEAT PRODUCTS (EXCEPT POULTRY)																											
Year of analysis	N°Sample	Product	Reference method: ISO 10272-2 ♦			Alternative method : CampyFood Agar (CFA)																			Category	Type
			PSD				PSD																				
			log CFU/g				CFU enumerated		Confirmation method																		
									ISO or simplified method								VIDAS CAM										
									CFU confirmed		CFU/g		log CFU/g				CFU confirmed		CFU/g		log CFU/g						
			Rep 1	Rep 2	Mean	Dilution	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2	Mean		Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2	Mean				
			a	b																							
Initial	**1411**	**Ground beef**	1,00*	0,70*	0,70*	10	0	2	0	2	<10	20	<1,00	1,30*	1,30*		0	2	<10	20	<1,00	1,30*	1,30*		1	a
						100	0	0	0	0							0	0							1	a
Initial	**1413**	**Raw beef tripes**	3,98	3,96	3,97	100	77	140	77	140	8300	13800	3,92	4,14	4,03		77	140	8300	14000	3,92	4,15	4,03		1	a
						1000	14	11	14	11							14	11							1	a
Initial	**1415**	**Rib of pork**	2,52	2,69	2,60	10	34	60	34	60	360	610	2,56	2,79	2,67		34	60	360	610	2,56	2,79	2,67		1	a
						100	6	7	6	7							6	7							1	a
Initial	**1416**	**Veal liver**	4,04	4,15	4,09	100	136	114	136	114	13000	12000	4,11	4,08	4,10		136	114	13000	12000	4,11	4,08	4,10		1	a
						1000	12	16	12	16							12	16							1	a
2018	455	Pork feet	<1,00		<1,00	10	0		0		<10		<1,00		<1,00		0		<10		<1,00		<1,00		1	a
						100	0		0								0								1	a
2018	456	Pork tails	<1,00		<1,00	10	0		0		<10		<1,00		<1,00		0		<10		<1,00		<1,00		1	a
						100	0		0								0								1	a
2018	**757**	**Pork meat**	2,76		2,76	10	59		59		590		2,77		2,77		59		590		2,77		2,77		1	a
						100	6		6								6								1	a
2018	**758**	**Pork meat**	3,28		3,28	100	32		32		3200		3,51		3,51		32		3200		3,51		3,51		1	a
						1000	3		3								3								1	a
2018	**759**	**Pork meat**	4,40		4,40	1000	20		20		20000		4,30		4,30		20		20000		4,30		4,30		1	a
						10000	2		2								2								1	a
Initial	1066	Pork carcass N°1	<1,00	<1,00	<1,00	10	0	0	0	0	<10	<10	<1,00	<1,00	<1,01		0	0	<10	<10	<1,00	<1,00	<1,00		1	b
						100	0	0	0	0							0	0							1	b
Initial	1067	Pork carcass N°2	<1,00	<1,00	<1,00	10	0	0	0	0	<10	<10	<1,00	<1,00	<1,00		0	0	<10	<10	<1,00	<1,00	<1,00		1	b
						100	0	0	0	0							0	0							1	b
2017	9488	Sponge beef carcass	<1,00		<1,00	10	0		0		<10		<1,00		<1,00		0		<10		<1,00		<1,00		1	b
						100	0		0								0								1	b
2017	9489	Sponge beef carcass	<1,00		<1,00	10	0		0		<10		<1,00		<1,00		0		<10		<1,00		<1,00		1	b
						100	0		0								0								1	b
2017	9490	Sponge beef carcass	<1,00		<1,00	10	0		0		<10		<1,00		<1,00		0		<10		<1,00		<1,00		1	b
						100	0		0								0								1	b
2017	9491	Sponge beef carcass	<1,00		<1,00	10	0		0		<10		<1,00		<1,00		0		<10		<1,00		<1,00		1	b
						100	0		0								0								1	b
2017	9492	Sponge beef carcass	<1,00		<1,00	10	0		0		<10		<1,00		<1,00		0		<10		<1,00		<1,00		1	b
						100	0		0								0								1	b
2017	9493	Sponge beef carcass	<1,00		<1,00	10	0		0		<10		<1,00		<1,00		0		<10		<1,00		<1,00		1	b
						100	0		0								0								1	b
2017	9494	Sponge beef carcass	<1,00		<1,00	10	0		0		<10		<1,00		<1,00		0		<10		<1,00		<1,00		1	b
						100	0		0								0								1	b

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MICROVAL® NEN

MEAT AND MEAT PRODUCTS (EXCEPT POULTRY)																										
Year of analysis	N°Sample	Product	Reference method: ISO 10272-2 ♦			Alternative method : CampyFood Agar (CFA)																		Category	Type
			PSD			Dilution	PSD																			
			log CFU/g				CFU enumerated		Confirmation method																	
									ISO or simplified method							VIDAS CAM									
									CFU confirmed		CFU/g		log CFU/g			CFU confirmed		CFU/g		log CFU/g					
			Rep 1	Rep 2	Mean		Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2	Mean		
			a	b																					
2017	9495	Sponge beef carcass	<1,00		<1,00	10	0		0		<10		<1,00		<1,00	0		<10		<1,00		<1,00	1	b
						100	0		0							0							1	b
2018	863	Sponge pork carcass	<1,00		<1,00	10	0		0		<10		<1,00		<1,00	0		<10		<1,00		<1,00	1	b
						100	0		0							0							1	b
2018	864	Sponge pork carcass	<1,00		<1,00	10	0		0		<10		<1,00		<1,00	0		<10		<1,00		<1,00	1	b
						100	0		0							0							1	b
2018	**939**	**Sponge beef carcass**	2,20		2,20	10	29		29		280		2,45		2,45	29		280		2,45		2,45	1	b
						100	2		2							2							1	b
2018	**940**	**Sponge beef carcass**	3,59		3,59	100	38		38		3700		3,57		3,57	38		3700		3,57		3,57	1	b
						1000	3		3							3							1	b
2018	**941**	**Sponge pork carcass**	3,30		3,30	100	22		22		2000		3,30		3,30	22		2000		3,30		3,30	1	b
						1000	0		0							0							1	b
2018	**942**	**Sponge pork carcass**	3,20		3,20	100	15		15		1400		3,15		3,15	15		1400		3,15		3,15	1	b
						1000	0		0							0							1	b
2018	**943**	**Sponge pork carcass**	4,08		4,08	100	64		64		6600		3,82		3,82	64		6600		3,82		3,82	1	b
						1000	9		9							9							1	b
Initial	**1412**	**Beef Carpaccio**	2,82	2,56	2,69	10	47	34	47	34	510	350	2,71	2,54	2,63	47	34	510	340	2,71	2,53	2,62	1	c
						100	9	4	9	4						9	4						1	c
Initial	**1414**	**Sausage-meat**	3,49	3,38	3,44	10	466	354	466	354	4700	3500	3,67	3,54	3,61	466	354	4700	3500	3,67	3,54	3,61	1	c
						100	49	31	49	31						49	31						1	c
2018	**3116**	**Smoked bacon**	1,60		1,60	10	4		4		40		1,60		1,60	4		40		1,60		1,60	1	c
			Ne		Ne	100	0		0		Ne		Ne		Ne	0		Ne		Ne		Ne	1	c
2018	**3117**	**Dried beef meat**	2,78		2,78	100	6		6		600		2,78		2,78	6		600		2,78		2,78	1	c
			Ne		Ne	1000	0		0		Ne		Ne		Ne	0		Ne		Ne		Ne	1	c
2018	**3118**	**Sausage**	4,61		4,61	1000	51		51		52000		4,72		4,72	51		52000		4,72		4,72	1	c
						10000	6		6							6							1	c
Initial	1407	Sausage meat	2,43	2,51	2,47	10	31	26	31	26	290	280	2,46	2,45	2,45	31	26	290	280	2,46	2,45	2,45	1	c
						100	1	5	1	5						1	5						1	c

MICROVAL® NEN

POULTRY AND POULTRY PRODUCTS																										
Year of analysis	N°Sample	Product	Reference method: ISO 10272-2 ♦			Alternative method : CampyFood Agar (CFA)																		Category	Type
			PSD			Dilution	PSD																			
			log CFU/g				CFU enumerated		Confirmation method																	
									ISO or simplified method								VIDAS CAM									
									CFU confirmed		CFU/g		log CFU/g				CFU confirmed		CFU/g		log CFU/g					
			Rep 1	Rep 2	Mean		Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2	Mean		Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2	Mean			
			a	b																						
Initial	562	Chicken wings without skin	2,81	2,95	2,88	10	61	80	61	80	660	810	2,82	2,91	2,86	61	80	660	810	2,82	2,91	2,86	2	a
						100	12	9	12	9						12	9						2	a
Initial	563	Turkey leg without skin	1,40	2,98	2,98	10	0	103	0	103	<10	1000	<1,00	3,00	3,00	0	103	<10	1000	<1,00	3,00	3,00	2	a
			Ne			100	0	8	0	8						0	8						2	a
Initial	564	Chicken pieces with skin	1,00*	1,98	1,98	10	1	7	1	7	10	70	1,00*	1,85	1,85	1	7	10	70	<1,60	1,85	1,85	2	a
				Ne		100	0	0	0	0				Ne		0	0		Ne		Ne		2	a
Initial	706	Chicken wings (MAP)	1,78	1,30*	1,78	10	8	3	6	3	60	30	1,78	1,48*	1,78	8	3	80	30	1,90	1,48*	1,90	2	a
			Ne			100	0	2	0	/			Ne			/	/	Ne		Ne			2	a
Initial	707	White chicken leg (MAP)	1,18*	<1,00	1,18*	10	0	0	0	0	<10	<10	<1,00	<1,00	<1,00	0	0	<10	<10	<1,00	<1,00	<1,00	2	a
						100	0	0	0	0						0	0						2	a
Initial	708	Chicken drumstick (MAP)	1,60	1,00*	1,60	10	1	3	1	3	10	30	1,00*	1,48*	1,24*	1	3	10	30	1,00*	1,48*	1,24*	2	a
			Ne			100	0	1	0	/						/	/						2	a
Initial	984	Chicken wings	<1,00	<1,00	<1,00	10	3	2	2	1	20	10	1,30*	1,00*	1,15*	3	2	30	20	1,48*	1,30*	1,39*	2	a
						100	1	0	1	0						/	/						2	a
Initial	985	Chicken drumsticks	1,93	1,18*	1,93	10	4	2	4	2	40	20	1,60	1,30*	1,60	4	2	40	20	1,60	1,30*	1,60	2	a
			Ne			100	0	1	0	1			Ne		Ne	/	/	Ne		Ne			2	a
Initial	997	Quail	<1,00	<1,00	<1,00	100	>150	47	/	0	<100	<100	<2,00	<2,00	<2,00	0	0	<100	<100	<2,00	<2,00	<2,00	2	a
						1000	16	0	0	0						0	0						2	a
Initial	998	Cockerel	<1,00	<1,00	<1,00	10	52	>150	0	0	<10	<10	<1,00	<1,00	<1,00	0	/	<10	<10	<1,00	<1,00	<1,00	2	a
						100	5	15	0	0						0	0						2	a
Initial	1004	Chicken leg(MAP)	1,93	2,08	2,00	10	13	6	10	5	91	50	1,96	1,70	1,83	13	6	120	60	2,08	1,78	1,93	2	a
			Ne			100	1	1	0	1				Ne		0	1		Ne		Ne		2	a
Initial	1005	Chicken drumsticks(MAP)	1,40*	1,48*	1,44*	10	3	4	3	4	30	40	1,48*	1,60	1,54*	3	4	30	40	1,48*	1,60	1,54*	2	a
						100	2	1	/	1				Ne	Ne	/	/		Ne		Ne		2	a
Initial	1006	Chicken wings(MAP)	2,83	2,80	2,81	10	76	99	76	99	750	960	2,88	2,98	2,93	76	99	750	960	2,88	2,98	2,93	2	a
						100	6	7	6	7						6	7						2	a
Initial	1059	Chicken VSM	3,85	3,79	3,82	100	69	66	69	66	6700	7100	3,83	3,85	3,84	69	66	6800	7100	3,83	3,85	3,84	2	a
						1000	6	12	5	12						6	12						2	a
Initial	1064	Chicken liver	2,95	2,99	2,97	10	80	81	80	81	860	900	2,93	2,95	2,94	80	81	860	900	2,93	2,95	2,94	2	a
						100	14	18	14	18						14	18						2	a
Initial	1068	Chicken neck meat	3,30	3,46	3,38	100	38	33	23	26	2400	2600	3,38	3,41	3,40	38	33	3800	3300	3,58	3,52	3,55	2	a
						1000	4	3	3	3						4	3						2	a
Initial	1060	Chicken carcass	1,30*	1,00*	1,15*	10	1	1	1	1	10	10	1,00*	1,00*	1,00*	1	1	10	10	1,00*	1,00*	1,00*	2	b
						100	0	0	0	0						0	0						2	b
Initial	1061	Chicken carcass	1,18	0,70*	1,18	10	1	1	1	1	10	10	1,00*	1,00*	1,00*	1	1	10	10	1,00*	1,00*	1,00*	2	b
						100	1	1	/	/						/	/						2	b
2018	1417	Poultry neck skin	1,60		1,60	10	9		9		90		1,95		1,95	9		90		1,95		1,95	2	b
			Ne			100	0		0		Ne					0		Ne		Ne		Ne	2	b

♦ Analyses performed according to the COFRAC accreditation

MICROVAL® NEN

POULTRY AND POULTRY PRODUCTS																										
Year of analysis	N°Sample	Product	Reference method: ISO 10272-2 ♦			Alternative method : CampyFood Agar (CFA)																		Category	Type
			PSD			Dilution	PSD																			
			log CFU/g				CFU enumerated		Confirmation method																	
									ISO or simplified method							VIDAS CAM									
									CFU confirmed		CFU/g		log CFU/g			CFU confirmed		CFU/g		log CFU/g					
			Rep 1	Rep 2	Mean		Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2	Mean		
			a	b																					
2018	1418	Poultry neck skin	<1,00		<1,00	10	4		0		<10		<1,00		<1,00	0		<10		<1,00		<1,00	2	b
						100	0		0							0							2	b
2018	1419	Poultry neck skin	1,60		1,60	10	>150		/		300		2,48		2,48	/		300		2,48		2,48	2	b
			Ne			100	3 L + 43 S		3							3							2	b
2018	1420	Poultry neck skin	3,04		3,04	10	>150		/		1900		3,28		3,28	/		1900		3,28		3,28	2	b
						100	19 L + 25 S		19							19							2	b
2018	1421	Poultry neck skin	3,62		3,62	100	47		47		4900		3,69		3,69	47		4900		3,69		3,69	2	b
						1000	7		7							7							2	b
2018	1422	Poultry neck skin	3,30		3,30	100	>150		/		3000		3,48		3,48	/		13000		4,11		4,11	2	b
						1000	3 L + 25 S		3							13							2	b
2018	1752	Poultry neck skin	4,57		4,57	1000	38		38		38000		4,58		4,58	38		38000		4,58		4,58	2	b
						10000	4		4							4							2	b
2018	1753	Poultry neck skin	<4,00		<4,00	10000	0		0		<10000		<4,00		<4,00	0		<10000		<4,00		<4,00	2	b
						100000	0		0							0							2	b
Initial	1063	Chicken liver	2,94	3,00	2,97	10	124	85	124	85	1300	880	3,11	2,94	3,03	124	85	1300	880	3,11	2,94	3,03	2	c
						100	19	12	19	12						19	12						2	c
Initial	1065	Duck liver pâté	<1,00	<1,00	<1,00	10	0	0	0	0	<10	<10	<1,00	<1,00	<1,00	0	0	<10	<10	<1,00	<1,00	<1,00	2	c
						100	0	0	0	0						0	0						2	c
Initial	**1097**	**Cooked chicken fillets**	<1,00	<1,00	<1,00	10	0	0	0	0	<10	<10	<1,00	<1,00	<1,00	0	0	<10	<10	<1,00	<1,00	<1,00	2	c
						100	0	0	0	0						0	0						2	c
Initial	**1098**	**Duck pâté**	1,74	1,70	1,72	10	10	5	10	5	100	50	2,00	1,70	1,85	10	5	100	50	2,00	1,70	1,85	2	c
			Ne	Ne	Ne	100	1	1	1	1						1	1		Ne		Ne		2	c
Initial	**1099**	**Duck liver**	2,43	2,46	2,45	10	36	31	36	31	390	310	2,59	2,49	2,54	36	31	390	310	2,59	2,49	2,54	2	c
						100	7	3	7	3						7	3						2	c
2018	457	Cooked poultry	<1,00		<1,00	10	0		0		<10		<1,00		<1,00	0		<10		<1,00		<1,00	2	c
						100	0		0							0							2	c
2018	458	Cooked poultry	<1,00		<1,00	10	0		0		<10		<1,00		<1,00	0		<10		<1,00		<1,00	2	c
						100	0		0							0							2	c
2018	**760**	**Cooked poultry meat**	2,15		2,15	10	23		23		230		2,36		2,36	23		230		2,36		2,36	2	c
						100	2		2							2							2	c
2018	**761**	**Cooked poultry meat**	2,23		2,23	10	12		12		130		2,11		2,11	12		130		2,11		2,11	2	c
						100	2		2							2							2	c
2018	**762**	**Cooked poultry meat**	3,18		3,18	100	14		14		1500		3,18		3,18	14		1500		3,18		3,18	2	c
						1000	2		2							2							2	c

MICROVAL® NEN

ENVIRONMENTAL SAMPLES																										
Year of analysis	N°Sample	Product	Reference method: ISO 10272-2 ♦			Alternative method : CampyFood Agar (CFA)																		Category	Type
			PSD			Dilution	PSD																			
			log CFU/g				CFU enumerated		Confirmation method																	
									ISO or simplified method								VIDAS CAM									
									CFU confirmed		CFU/g		log CFU/g				CFU confirmed		CFU/g		log CFU/g					
			Rep 1	Rep 2	Mean		Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2	Mean		Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2	Mean			
			a	b																						
Initial	1403	Operator hands wipe	<1,00	<1,00	<1,00	10	0	0	0	0	<10	<10	<1,00	<1,00	<1,00		0	0	<10	<10	<1,00	<1,00	<1,00		3	a
						100	0	0	0	0							0	0							3	a
2017	8641	Waste (Poultry livers)	2,87		2,87	100	36		36		3700		3,57		3,57		36		3700		3,57		3,57		3	a
						1000	5		5								5								3	a
2017	8642	Waste (Poultry gizzards)	4,81		4,81	1000	80		80		88000		4,94		4,94		80		88000		4,94		4,94		3	a
						10000	17		17								17								3	a
2017	8643	Waste (Poultry skin and fat)	4,93		4,93	1000	153		153		160000		5,20		5,20		153		160000		5,20		5,20		3	a
						10000	24		24								24								3	a
2017	8644	Waste (Poultry skin and leg)	1,90		1,90	10	11		11		100		2,00		2,00		11		100		2,00		2,00		3	a
			Ne			100	0		0								0								3	a
2017	8645	Waste (Poultry neck without skin)	1,95		1,95	10	11		11		100		2,00		2,00		11		100		2,00		2,00		3	a
						100	0		0								0								3	a
2017	8646	Waste (Poultry head)	1,78		1,78	10	5		5		50		1,70		1,70		5		50		1,70		1,70		3	a
						100	0		0		Ne		Ne				0		Ne		Ne		Ne		3	a
2017	8647	Waste (Poultry head)	1,00*		1,00*	10	10		10		100		2,00		2,00		10		100		2,00		2,00		3	a
						100	1		1								1								3	a
2018	1538	Poultry waste	2,51		2,51	10	51		51		470		2,67		2,67		51		470		2,67		2,67		3	a
						100	1		1								1								3	a
Initial	898	Poultry environmental sample	2,99	3,08	3,04	10	339	273	135	109	1400	990	3,15	3,00	3,07		339	273	3400	2700	3,53	3,43	3,48		3	b
						100	35	26	14	0							35	26							3	b
Initial	899	Poultry environmental sample	2,67	2,61	2,64	10	118	115	24	92	260	890	2,41	2,95	2,68		118	115	1100	1100	3,04	3,04	3,04		3	b
						100	5	10	4	6							5	10							3	b
Initial	1272	Environmental sample (feathery)N°1	<3,00	<3,00	<3,00	100	>150	>150	/	/	<1000	<1000	<3,00	<3,00	<3,00		0	0	<1000	<1000	<3,00	<3,00	<3,00		3	b
						1000	>150	>150	0	0							0	0							3	b
Initial	1273	Environmental sample (feathery)N°2	<3,00	<3,00	<3,00	100	>150	>150	/	/	<1000	<1000	<3,00	<3,00	<3,00		0	0	<1000	<1000	<3,00	<3,00	<3,00		3	b
						1000	117	>150	0	0							0	0							3	b
Initial	1274	Environmental sample (feathery)N°4	<3,00	<3,00	<3,00	100	>150	>150	/	/	<1000	<1000	<3,00	<3,00	<3,00		0	0	<1000	<1000	<3,00	<3,00	<3,00		3	b
						1000	>150	>150	0	0							0	0							3	b
Initial	1275	Environmental sample (feathery)N°3	<3,00	<3,00	<3,00	100	>150	>150	/	/	<1000	<1000	<3,00	<3,00	<3,00		0	0	<1000	<1000	<3,00	<3,00	<3,00		3	b
						1000	>150	>150	0	0							0	0							3	b
Initial	1400	Environmental sample(Feathery)	2,73	2,96	2,85	10	72	100	72	100	670	920	2,83	2,96	2,89		72	100	670	920	2,83	2,96	2,89		3	b
						100	2	1	2	1							2	1							3	b
Initial	1401	Hook wipe	1,81	1,98	1,90	10	6	12	6	12	60	120	1,78	2,08	1,93		6	12	60	120	1,78	2,08	1,93		3	b
			Ne			100	0	1	0	1	Ne		Ne				0	1	Ne		Ne				3	b
Initial	1402	Frozen Guinea-fowl liver	1,00*	0,70*	0,85*	10	1	0	1	0	10	<10	1,00*	<1,00	<1,00		0	0	<10	<10	<1,00	<1,00	<1,00		3	b
						100	0	0	0	0							0	0							3	b
Initial	1404	Evisceration podium wipe	3,72	3,81	3,77	100	43	55	43	55	4500	5500	3,65	3,74	3,70		43	55	4500	5500	3,65	3,74	3,70		3	b
						1000	6	6	6	6							6	6							3	b

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MICROVAL® NEN

ENVIRONMENTAL SAMPLES																										
Year of analysis	N°Sample	Product	Reference method: ISO 10272-2 ♦			Alternative method : CampyFood Agar (CFA)																			Category	Type
			PSD			Dilution	PSD																			
							CFU enumerated		Confirmation method																	
									ISO or simplified method							VIDAS CAM									
			log CFU/g						CFU confirmed		CFU/g		log CFU/g			CFU confirmed		CFU/g		log CFU/g					
			Rep 1	Rep 2	Mean		Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2	Mean		
			a	b																						
Initial	1435	Beef slaughter-house environmental sample(wipe)	<3,00	<3,00	<3,00	100	>150	>150	/	/	<1000	<1000	<3,00	<3,00	<3,00	/	/	<1000	<1000	<3,00	<3,00	<3,00	3	b
						1000	42	55	0	0						0	0						3	b
Initial	1436	Beef slaughter-house environmental sample(wipe)	<1,00	<1,00	<1,00	10	27	127	0	0	<10	<10	<1,00	<1,00	<1,00	0	0	<10	<10	<1,00	<1,00	<1,00	3	b
						100	3	6	0	0						0	0						3	b
Initial	1437	Pork slaughter-house environmental sample(wipe)	<3,00	<3,00	<3,00	100	>150	>150	/	/	<1000	<1000	<3,00	<3,00	<3,00	/	/	<1000	<1000	<3,00	<3,00	<3,00	3	b
						1000	36	57	0	0						0	0						3	b
Initial	1438	Pork slaughter-house environmental sample(wipe)	<3,00	<3,00	<3,00	100	136	123	0	0	<100	<100	<2,00	<2,00	<2,00	0	0	<100	<100	<2,00	<2,00	<2,00	3	b
						1000	14	14	0	0						0	0						3	b
Initial	901	Refrigeration water(poultry)	2,83	1,81	2,32	10	140	131	84	26	810	260	2,91	2,41	2,66	140	131	1300	1300	3,11	3,11	3,11	3	c
				Ne		100	5	8	5	3						5	8						3	c
Initial	1276	Environmental sample (feathery)N°4	<3,00	<3,00	<3,00	100	>150	>150	/	/	<1000	<1000	<3,00	<3,00	<3,00	0	0	<1000	<1000	<3,00	<3,00	<3,00	3	c
						1000	>150	>150	0	0						0	0						3	c
Initial	1301	Environmental sample (feathery)N°2	<3,00	<3,00	<3,00	100	>150	>150	/	/	<1000	<1000	<3,00	<3,00	<3,00	0	0	<1000	<1000	<3,00	<3,00	<3,00	3	c
						1000	>150	>150	0	0						0	0						3	c
Initial	1398	Scalding water	<1,00	<1,00	<1,00	10	0	0	0	0	<10	<10	<1,00	<1,00	<1,00	0	0	<10	<10	<1,00	<1,00	<1,00	3	c
						100	0	0	0	0						0	0						3	c
Initial	1399	Feathery water	3,08	3,08	3,08	10	134	154	134	154	1400	1500	3,15	3,18	3,16	134	154	1400	1500	3,15	3,18	3,16	3	c
						100	15	11	15	11						15	11						3	c
2018	**3119**	**Process water**	<1,00		<1,00	10	0		0		<10		<1,00		<1,00	0		<10		<1,00		<1,00	3	c
						100	0		0							0							3	c
2018	**3120**	**Process water**	<1,00		<1,00	100	0		0		<10		<1,00		<1,00	0		<10		<1,00		<1,00	3	c
						1000	0		0							0							3	c
2018	**3121**	**Process water**	2,26		2,26	10	31		31		310		2,49		2,49	31		310		2,49		2,49	3	c
						100	3		3							3							3	c
Initial	1084	Process water	3,54	3,64	3,59	100	38	51	38	51	3900	5500	3,59	3,74	3,67	38	51	3900	5500	3,59	3,74	3,67	3	c
						1000	5	10	5	10						5	10						3	c
2018	**4720**	**Rinse water (pork industry)**	3,20		3,20	100	16		16		1900		3,28		3,28	16		1900		3,28		3,28	3	c
						1000	5		5							5							3	c
2018	**4721**	**Process water (pork industry)**	4,83		4,83	1000	99		99		99000		5,00		5,00	99		99000		5,00		5,00	3	c
						10000	10		10							10							3	c

MICROVAL® NEN

MEAT AND MEAT PRODUCTS (EXCEPT POULTRY)																										
Year of analysis	N°Sample	Product	Reference method : ISO 10272-2 ♦			Alternative method : CampyFood Agar (CFA)																		Category	Type
			PSD			Dilution	CFB																			
							CFU numerated		Confirmation method																	
									ISO or simplified method								VIDAS CAM									
			log CFU/g						CFU confirmed		CFU/g		log cfu/g				CFU confirmed		CFU/g		log CFU/g				
			Rep 1	Rep 2	Mean		Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2	Mean		Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2	Mean		
			a	b																					
Initial	**1411**	**Ground beef**	1,00*	0,70*	0,70*	10	0	0	0	0	<10	<10	<1,00	<1,00	<1,00		0	0	<10	<10	<1,00	<1,00	<1,00	1	a
						100	1	1	/	/							/	/						1	a
Initial	**1413**	**Raw beef tripes**	3,98	3,96	3,97	100	66	64	66	64	7100	6300	3,85	3,80	3,83		66	64	7100	6300	3,85	3,80	3,83	1	a
						1000	12	5	12	5							12	5						1	a
Initial	**1415**	**Rib of pork**	2,52	2,69	2,60	10	60	79	60	79	570	800	2,76	2,90	2,83		60	79	570	800	2,76	2,90	2,83	1	a
						100	3	9	3	9							3	9						1	a
Initial	**1416**	**Veal liver**	4,04	4,15	4,09	100	116	98	116	98	12000	10000	4,08	4,00	4,04		116	98	12100	10000	4,08	4,00	4,04	1	a
						1000	17	12	17	12							17	12						1	a
2018	455	Pork feet	<1,00		<1,00	10	0		0		<10		<1,00		<1,00		0		<10		<1,00		<1,00	1	a
						100	0		0								0							1	a
2018	456	Pork tails	<1,00		<1,00	10	0		0		<10		<1,00		<1,00		0		<10		<1,00		<1,00	1	a
						100	0		0								0							1	a
2018	**757**	**Pork meat**	2,76		2,76	10	38		38		390		2,59		2,59		38		390		2,59		2,59	1	a
						100	5		5								5							1	a
2018	**758**	**Pork meat**	3,28		3,28	100	24		24		2400		3,38		3,38		24		2400		3,38		3,38	1	a
						1000	2		2								2							1	a
2018	**759**	**Pork meat**	4,40		4,40	1000	22		22		21000		4,32		4,32		22		21000		4,32		4,32	1	a
						10000	1		1								1							1	a
Initial	1066	Pork carcass N°1	<1,00	<1,00	<1,00	10	0	0	0	0	<10	<10	<1,00	<1,00	<1,00		0	0	<10	<10	<1,00	<1,00	<1,00	1	b
						100	0	0	0	0							0	0						1	b
Initial	1067	Pork carcass N°2	<1,00	<1,00	<1,00	10	0	0	0	0	<10	<10	<1,00	<1,00	<1,00		0	0	<10	<10	<1,00	<1,00	<1,00	1	b
						100	0	0	0	0							0	0						1	b
2017	9488	Sponge beef carcass	<1,00		<1,00	10	0		0		<10		<1,00		<1,00		0		<10		<1,00		<1,00	1	b
						100	0		0								0							1	b
2017	9489	Sponge beef carcass	<1,00		<1,00	10	0		0		<10		<1,00		<1,00		0		<10		<1,00		<1,00	1	b
						100	0		0								0							1	b
2017	9490	Sponge beef carcass	<1,00		<1,00	10	0		0		<10		<1,00		<1,00		0		<10		<1,00		<1,00	1	b
						100	0		0								0							1	b
2017	9491	Sponge beef carcass	<1,00		<1,00	10	0		0		<10		<1,00		<1,00		0		<10		<1,00		<1,00	1	b
						100	0		0								0							1	b
2017	9492	Sponge beef carcass	<1,00		<1,00	10	0		0		<10		<1,00		<1,00		0		<10		<1,00		<1,00	1	b
						100	0		0								0							1	b
2017	9493	Sponge beef carcass	<1,00		<1,00	10	0		0		<10		<1,00		<1,00		0		<10		<1,00		<1,00	1	b
						100	0		0								0							1	b
2017	9494	Sponge beef carcass	<1,00		<1,00	10	0		0		<10		<1,00		<1,00		0		<10		<1,00		<1,00	1	b
						100	0		0								0							1	b
2017	9495	Sponge beef carcass	<1,00		<1,00	10	0		0		<10		<1,00		<1,00		0		<10		<1,00		<1,00	1	b

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MICROVAL® NEN

MEAT AND MEAT PRODUCTS (EXCEPT POULTRY)																												
Year of analysis	N°Sample	Product	Reference method : ISO 10272-2 ♦			Alternative method : CampyFood Agar (CFA)																			Category	Type
			PSD			Dilution	CFB																				
							CFU numerated		Confirmation method																		
									ISO or simplified method							VIDAS CAM										
			log CFU/g						CFU confirmed		CFU/g		log cfu/g			CFU confirmed		CFU/g		log CFU/g						
			Rep 1 a	Rep 2 b	Mean		Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2	Mean		
						100	0		0							0							1	b
2018	863	Sponge pork carcass	<1,00		<1,00	10	0		0		<10		<1,00		<1,00	0		<10		<1,00		<1,00	1	b
						100	0		0							0							1	b
2018	864	Sponge pork carcass	<1,00		<1,00	10	0		0		<10		<1,00		<1,00	0		<10		<1,00		<1,00	1	b
						100	0		0							0							1	b
2018	**939**	**Sponge beef carcass**	2,20		2,20	10	36		36		360		2,56		2,56	36		360		2,56		2,56	1	b
						100	4		4							4							1	b
2018	**940**	**Sponge beef carcass**	3,59		3,59	100	35		35		3500		3,54		3,54	35		3500		3,54		3,54	1	b
						1000	4		4							4							1	b
2018	**941**	**Sponge pork carcass**	3,30		3,30	100	37		37		3400		3,53		3,53	37		3400		3,53		3,53	1	b
						1000	0		0							0							1	b
2018	**942**	**Sponge pork carcass**	3,20		3,20	100	13		13		1400		3,15		3,15	13		1400		3,15		3,15	1	b
						1000	2		2							2							1	b
2018	**943**	**Sponge pork carcass**	4,08		4,08	100	23 (3)		23 (3)		23000		4,36		4,36	23 (3)		23000		4,36		4,36	1	b
						1000	2 (-4)		2 (-4)							2 (-4)							1	b
Initial	**1412**	**Beef Carpaccio**	2,82	2,56	2,69	10	73	27	73	27	680	260	2,83	2,41	2,62	73	27	680	260	2,83	2,41	2,62	1	c
						100	2	1	2	1						2	1						1	c
Initial	**1414**	**Sausage-meat**	3,49	3,38	3,44	10	263	565	263	565	2600	5700	3,41	3,76	3,59	263	565	2600	5700	3,41	3,76	3,59	1	c
						100	23	58	23	58						23	58						1	c
2018	**3116**	**Smoked bacon**	1,60 Ne		1,60 Ne	10	4		4		40		1,60 Ne		1,60 Ne	4		40 Ne		1,60 Ne		1,60 Ne	1	c
						100	0		0		Ne					0							1	c
2018	**3117**	**Dried beef meat**	2,78 Ne		2,78 Ne	100	6		6		600		2,78 Ne		2,78 Ne	6		600 Ne		2,78 Ne		2,78 Ne	1	c
						1000	1		1		Ne					1							1	c
2018	**3118**	**Sausage**	4,61		4,61	1000	78		78		81000		4,91		4,91	78		81000		4,91		4,91	1	c
						10000	11		11							11							1	c
Initial	1407	Sausage meat	2,43	2,51	2,47	10	16	29	16	29	170	290	2,23	2,46	2,35	16	29	170	290	2,23	2,46	2,35	1	c
						100	3	3	3	3						3	3						1	c

MICROVAL® NEN

POULTRY AND POULTRY PRODUCTS																										
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			PSD			Dilution	CFB																			
							CFU numerated		Confirmation method																	
									ISO or simplified method							VIDAS CAM									
			log CFU/g						CFU confirmed		CFU/g		log cfu/g			CFU confirmed		CFU/g		log CFU/g					
			Rep 1 a	Rep 2 b	Mean		Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2	Mean		
Initial	562	Chicken wings without skin	2,81	2,95	2,88	10	16	30	16	30	160	340	2,20	2,53	2,37	16	30	160	340	2,20	2,53	2,37	2	a
						100	2	7	2	7						2	7						2	a
Initial	563	Turkey leg without skin	1,40 Ne	2,98	2,98	10	0	1	0	1	<10	10	<1,00	1,00*	1,00*	0	0	<10	<10	<1,00	<1,00	<1,00	2	a
						100	0	0	0	0						0	0						2	a
Initial	564	Chicken pieces with skin	1,00*	1,98 Ne	1,98	10	1	0	1	0	10	<10	1,00*	<1,00	<1,00	1	0	10	<10	1,00*	<1,00	<1,00	2	a
						100	0	0	0	0						0	0						2	a
Initial	706	Chicken wings (MAP)	1,78 Ne	1,30*	1,78	10	2	0	2	0	20	<10	1,30*	<1,00	1,30*	2	0	20	<10	1,30*	<1,00	1,30*	2	a
						100	0	0	0	0						0	0						2	a
Initial	707	White chicken leg (MAP)	1,18*	<1,00	1,18*	10	3	1	1	1	10	10	1,00*	1,00*	1,00*	3	1	30	10	1,48*	1,00*	1,24*	2	a
						100	0	0	0	0						0	0						2	a
Initial	708	Chicken drumstick (MAP)	1,60 Ne	1,00*	1,60	10	3	4	1	4	10	40	1,00*	1,60 Ne	1,60	3	4	30	40 Ne	1,48*	1,60 Ne	1,60 Ne	2	a
						100	0	0	0	0						0	0						2	a
Initial	984	Chicken wings	<1,00	<1,00	<1,00	10	8	3	5	1	50	10	1,70 Ne	1,00*	1,70	8	0	80 Ne	<10	1,90 Ne	<1,00	1,90	2	a
						100	0	0	0	0						0	0						2	a
Initial	985	Chicken drumsticks	1,93 Ne	1,18*	1,93	10	1	3	1	2	10	20	1,00*	1,30*	1,15*	1	3	10	30	1,00*	1,48*	1,24*	2	a
						100	0	0	0	0						0	0						2	a
Initial	997	Quail	<1,00	<1,00	<1,00	100	>150	51	/	0	<100	<100	<2,00	<2,00	<2,00	/	0	<100	<100	<2,00	<2,00	<2,00	2	a
						1000	10	2	0	0						0	0						2	a
Initial	998	Cockerel	<1,00	<1,00	<1,00	10	143	127	0	0	<10	<10	<1,00	<1,00	<1,00	0	0	<10	<10	<1,00	<1,00	<1,00	2	a
						100	8	11	0	0						0	0						2	a
Initial	1004	Chicken leg(MAP)	1,93 Ne	2,08	2,00	10	12	12	12	7	120	70	2,08	1,85 Ne	1,96	12	12	120	130	2,08	2,11	2,10	2	a
						100	1	2	1	2						1	2						2	a
Initial	1005	Chicken drumsticks(MAP)	1,40*	1,48*	1,44*	10	4	1	4	1	40	10	1,60 Ne	<1,60	1,60	4	1	40 Ne	10	1,60 Ne	<1,60	1,60	2	a
						100	0	0	0	/						0	0						2	a
Initial	1006	Chicken wings(MAP)	2,83	2,80	2,81	10	200	90	200	90	2000	890	3,30	2,95	3,13	200	90	2000	890	3,30	2,95	3,13	2	a
						100	23	8	23	8						23	8						2	a
Initial	1059	Chicken VSM	3,85	3,79	3,82	100	75	65	75	65	7200	6300	3,86	3,80	3,83	75	65	7300	6300	3,86	3,80	3,83	2	a
						1000	5	4	4	4						5	4						2	a
Initial	1064	Chicken liver	2,95	2,99	2,97	10	183	111	183	111	1700	1100	3,23	3,04	3,14	183	111	1700	1100	3,23	3,04	3,14	2	a
						100	8	13	8	13						8	13						2	a
Initial	1068	Chicken neck meat	3,30	3,46	3,38	100	63	38	50	38	4900	3500	3,69	3,54	3,62	50	38	4900	3500	3,69	3,54	3,62	2	a
						1000	4	2	4	1						4	1						2	a
Initial	1060	Chicken carcass	1,30*	1,00*	1,15*	10	2	2	2	2	20	20	1,30*	1,30*	1,30*	2	4	20	40 Ne	1,30*	1,60 Ne	1,60	2	b
						100	0	0	0	0						0	0						2	b
Initial	1061	Chicken carcass	1,18	0,70*	1,18	10	2	1	2	1	20	10	1,30*	1,00*	1,15*	2	1	20	10	1,30*	1,00*	1,15*	2	b
						100	0	0	0	0						0	0						2	b
2018	1417	Poultry neck skin	1,60 Ne		1,60	10	1		0		<10		<1,00		<1,00	0		<10		<1,00		<1,00	2	b
						100	0		0														2	b

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MICROVAL® NEN

POULTRY AND POULTRY PRODUCTS																										
Year of analysis	N°Sample	Product	Reference method : ISO 10272-2 ♦			Alternative method : CampyFood Agar (CFA)																		Category	Type
			PSD			Dilution	CFB																			
							CFU numerated		Confirmation method																	
									ISO or simplified method							VIDAS CAM									
			log CFU/g						CFU confirmed		CFU/g		log cfu/g			CFU confirmed		CFU/g		log CFU/g					
			Rep 1	Rep 2	Mean		Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2	Mean		
			a	b																					
2018	1418	Poultry neck skin	<1,00		<1,00	10	5		2		20		1,30*		1,30*	4		40		1,60		1,60	2	b
						100	0		0											Ne		Ne	2	b
2018	1419	Poultry neck skin	1,60		1,60	10	>150		/		300		2,48		2,48	/		300		2,48		2,48	2	b
			Ne			100	3 L + 128 S		3							3							2	b
2018	1420	Poultry neck skin	3,04		3,04	10	>150		/		400		2,60		2,60	/		400		2,60		2,60	2	b
						100	4 L + 16 S		4							4							2	b
2018	1421	Poultry neck skin	3,62		3,62	100	58		58		5400		3,73		3,73	58		5600		3,75		3,75	2	b
						1000	4		1							4							2	b
2018	1422	Poultry neck skin	3,30		3,30	100	79		79		7800		3,89		3,89	79		7800		3,89		3,89	2	b
						1000	7		7							7							2	b
2018	1752	Poultry neck skin	4,57		4,57	1000	39		39		36000		4,56		4,56	39		36000		4,56		4,56	2	b
						10000	1		1							1							2	b
2018	1753	Poultry neck skin	<4,00		<4,00	10000	0		0		<10000		<4,00		<4,00	0		<10000		<4,00		<4,00	2	b
						100000	0		0							0							2	b
Initial	1063	Chicken liver	2,94	3,00	2,97	10	34	102	34	102	360	1000	2,56	3,00	2,78	34	102	360	1000	2,56	3,00	2,78	2	c
						100	6	8	6	8						6	8						2	c
Initial	1065	Duck liver pâté	<1,00	<1,00	<1,00	10	0	0	0	0	<10	<10	<1,00	<1,00	<1,00	0	0	<10	<10	<1,00	<1,00	<1,00	2	c
						100	0	0	0	0						0	0						2	c
Initial	**1097**	**Cooked chicken fillets**	<1,00	<1,00	<1,00	10	0	0	0	0	<10	<10	<1,00	<1,00	<1,00	0	0	<10	<10	<1,00	<1,00	<1,00	2	c
						100	0	0	0	0						0	0						2	c
Initial	**1098**	**Duck pâté**	1,74	1,70	1,72	10	17	9	17	9	160	90	2,20	1,95	2,08	17	9	160	90	2,20	1,95	2,08	2	c
			Ne	Ne	Ne	100	1	0	1	0		Ne		Ne		1	0		Ne		Ne		2	c
Initial	**1099**	**Duck liver**	2,43	2,46	2,45	10	33	34	33	34	310	340	2,49	2,53	2,51	33	34	310	340	2,49	2,53	2,51	2	c
						100	1	3	1	3						1	3						2	c
2018	457	Cooked poultry	<1,00		<1,00	10	0		0		<10		<1,00		<1,00	0		<10		<1,00		<1,00	2	c
						100	0		0							0							2	c
2018	458	Cooked poultry	<1,00		<1,00	10	0		0		<10		<1,00		<1,00	0		<10		<1,00		<1,00	2	c
						100	0		0							0							2	c
2018	**760**	**Cooked poultry meat**	2,15		2,15	10	5		5		50		1,70		1,70	5		50		1,70		1,70	2	c
						100	1		1		Ne		Ne		Ne	1		Ne		Ne			2	c
2018	**761**	**Cooked poultry meat**	2,23		2,23	10	15		15		170		2,23		2,23	15		170		2,23		2,23	2	c
						100	4		4							4							2	c
2018	**762**	**Cooked poultry meat**	3,18		3,18	100	17		17		1600		3,20		3,20	17		1600		3,20		3,20	2	c
						1000	1		1							1							2	c

MICROVAL® NEN

ENVIRONMENTAL SAMPLES																										
Year of analysis	N°Sample	Product	Reference method : ISO 10272-2 ♦			Alternative method : CampyFood Agar (CFA)																		Category	Type
			PSD			Dilution	CFB																			
							CFU numerated		Confirmation method																	
									ISO or simplified method							VIDAS CAM									
			log CFU/g						CFU confirmed		CFU/g		log cfu/g			CFU confirmed		CFU/g		log CFU/g					
			Rep 1 a	Rep 2 b	Mean		Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2	Mean		
Initial	1403	Operator hands wipe	<1,00	<1,00	<1,00	10	0	0	0	0	<10	<10	<1,00	<1,00	<1,00	0	0	<10	<10	<1,00	<1,00	<1,00	3	a
						100	0	0	0	0						0	0						3	a
2017	8641	Waste (Poultry livers)	2,87		2,87	100	15		15		1500		3,18		3,18	15		1500		3,18		3,18	3	a
						1000	2		2							2							3	a
2017	8642	Waste (Poultry gizzards)	4,81		4,81	1000	39		39		43000		4,63		4,63	39		43000		4,63		4,63	3	a
						10000	8		8							8							3	a
2017	8643	Waste (Poultry skin and fat)	4,93		4,93	1000	92		92		87000		4,94		4,94	92		87000		4,94		4,94	3	a
						10000	4		4							4							3	a
2017	8644	Waste (Poultry skin and leg)	1,90 Ne		1,90	10	1		1		10		1,00*		1,00*	1		10		1,00*		1,00*	3	a
						100	0		0							0							3	a
2017	8645	Waste (Poultry neck without skin)	1,95		1,95	10	24		24		270		2,43		2,43	24		270		2,43		2,43	3	a
						100	6		6							6							3	a
2017	8646	Waste (Poultry head)	1,78		1,78	10	3		3		30		1,48*		1,48*	3		30		1,48*		1,48*	3	a
						100	2		2							2							3	a
2017	8647	Waste (Poultry head)	1,00*		1,00*	10	9		9		90		1,95 Ne		1,95 Ne	9		90		1,95		1,95	3	a
						100	2		2							2							3	a
2018	1538	Poultry waste	2,51		2,51	10	27		27		320		2,51		2,51	27		320		2,51		2,51	3	a
						100	8		8							8							3	a
Initial	898	Poultry environmental sample	2,99	3,08	3,04	10	287	400	230	400	2300	4200	3,36	3,62	3,49	287	40(-2)	2800	4200	3,45	3,62	3,54	3	b
						100	25	60	20	60						25	6						3	b
Initial	899	Poultry environmental sample	2,67	2,61	2,64	10	63	83	50	83	530	780	2,72	2,89	2,81	63	83	690	800	2,84	2,90	2,87	3	b
						100	13	5	8	3						13	5						3	b
Initial	1272	Environmental sample (feathery)N°1	<3,00	<3,00	<3,00	100	>150	>150	/	/	<1000	<1000	<3,00	<3,00	<3,00	0	0	<1000	<1000	<3,00	<3,00	<3,00	3	b
						1000	>150	>150	0	0						0	0						3	b
Initial	1273	Environmental sample (feathery)N°2	<3,00	<3,00	<3,00	100	>150	>150	/	/	<1000	<1000	<3,00	<3,00	<3,00	0	0	<1000	<1000	<3,00	<3,00	<3,00	3	b
						1000	>150	>150	0	0						0	0						3	b
Initial	1274	Environmental sample (feathery)N°4	<3,00	<3,00	<3,00	100	>150	>150	/	/	<1000	<1000	<3,00	<3,00	<3,00	0	0	<1000	<1000	<3,00	<3,00	<3,00	3	b
						1000	>150	>150	0	0						0	0						3	b
Initial	1275	Environmental sample (feathery)N°3	<3,00	<3,00	<3,00	100	>150	>150	/	/	<1000	<1000	<3,00	<3,00	<3,00	0	0	<1000	<1000	<3,00	<3,00	<3,00	3	b
						1000	>150	>150	0	0						0	0						3	b
Initial	1400	Environmental sample (Feathery)	2,73	2,96	2,85	10	100	118	100	118	920	1200	2,96	3,08	3,02	100	118	920	1200	2,96	3,08	3,02	3	b
						100	1	9	1	9						1	9						3	b
Initial	1401	Hook wipe	1,81 Ne	1,98	1,90	10	9	7	9	7	90 Ne	70 Ne	1,95 Ne	1,85 Ne	1,90 Ne	9	7	90 Ne	70 Ne	1,95 Ne	1,85 Ne	1,90	3	b
						100	2	2	2	2						2	2						3	b
Initial	1402	Frozen Guinea-fowl liver	1,00*	0,70*	0,85*	10	0	1	0	1	<10	10	<1,00	1,00*	<1,00	0	1	<10	10	<1,00	1,00*	<1,00	3	b
						100	0	0	0	0						0	0						3	b
Initial	1404	Evisceration podium wipe	3,72	3,81	3,77	100	52	21	52	21	5100	2000	3,71	3,30	3,50	52	21	5100	2000	3,71	3,30	3,50	3	b
						1000	4	1	4	1						4	1						3	b

♦ Analyses performed according to the COFRAC accreditation

MICROVAL® NEN

ENVIRONMENTAL SAMPLES																										
Year of analysis	N°Sample	Product	Reference method : ISO 10272-2 ♦			Alternative method : CampyFood Agar (CFA)																		Category	Type
			PSD			Dilution	CFB																			
							CFU numerated		Confirmation method																	
									ISO or simplified method							VIDAS CAM									
			log CFU/g						CFU confirmed		CFU/g		log cfu/g			CFU confirmed		CFU/g		log CFU/g					
			Rep 1	Rep 2	Mean		Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2	Mean		
			a	b																					
Initial	1435	Beef slaughter-house environmental sample(wipe)	<3,00	<3,00	<3,00	100	>150	>150	/	/	<1000	<1000	<1,00	<1,00	<1,00	/	/	<1000	<1000	<1,00	<1,00	<1,00	3	b
						1000	60	56	0	0						0	0						3	b
Initial	1436	Beef slaughter-house environmental sample(wipe)	<1,00	<1,00	<1,00	10	12	7	0	0	<10	<10	<1,00	<1,00	<1,00	0	0	<10	<10	<1,00	<1,00	<1,00	3	b
						100	0	1	0	0						0	0						3	b
Initial	1437	Pork slaughter-house environmental sample(wipe)	<3,00	<3,00	<3,00	100	>150	>150	/	/	<1000	<1000	<3,00	<3,00	<3,00	/	/	<1000	<1000	<3,00	<3,00	<3,00	3	b
						1000	22	25	0	0						0	0						3	b
Initial	1438	Pork slaughter-house environmental sample(wipe)	<3,00	<3,00	<3,00	100	110	177	0	0	<100	<100	<2,00	<2,00	<2,00	0	0	<100	<100	<2,00	<2,00	<2,00	3	b
						1000	16	28	0	0						0	0						3	b
Initial	901	Refrigeration water(poultry)	2,83	1,81	2,32	10	140	42	112	8	1100	80	3,04	1,90	2,47	140	42	1400	420	3,15	2,62	2,88	3	c
				Ne		100	14	4	8	1						14	4						3	c
Initial	1276	Environmental sample (feathery)N°4	<3,00	<3,00	<3,00	100	>150	>150	/	/	<1000	<1000	<3,00	<3,00	<3,00	0	0	<1000	<1000	<3,00	<3,00	<3,00	3	c
						1000	>150	>150	0	0						0	0						3	c
Initial	1301	Environmental sample (feathery)N°2	<3,00	<3,00	<3,00	100	>150	>150	/	/	<1000	<1000	<3,00	<3,00	<3,00	0	0	<1000	<1000	<3,00	<3,00	<3,00	3	c
						1000	>150	>150	0	0						0	0						3	c
Initial	1398	Scalding water	<1,00	<1,00	<1,00	10	0	0	0	0	<10	<10	<1,00	<1,00	<1,00	0	0	<10	<10	<1,00	<1,00	<1,00	3	c
						100	0	0	0	0						0	0						3	c
Initial	1399	Feathery water	3,08	3,08	3,08	10	159	161	159	161	1500	1500	3,18	3,18	3,18	159	161	1500	1530	3,18	3,18	3,18	3	c
						100	8	7	8	7						8	7						3	c
2018	**3119**	**Process water**	<1,00		<1,00	10	0		0		<10		<1,00		<1,00	0		<10		<1,00		<1,00	3	c
						100	0		0							0							3	c
2018	**3120**	**Process water**	<1,00		<1,00	100	0		0		<10		<1,00		<1,00	0		<10		<1,00		<1,00	3	c
						1000	0		0							0							3	c
2018	**3121**	**Process water**	2,26		2,26	10	30		30		290		2,46		2,46	30		290		2,46		2,46	3	c
						100	2		2							2							3	c
Initial	1084	Process water	3,54	3,64	3,59	100	48	52	48	52	4900	5200	3,69	3,72	3,70	48	52	4900	5200	3,69	3,72	3,70	3	c
						1000	6	5	6	5						6	5						3	c
2018	**4720**	**Rinse water (pork industry)**	3,20		3,20	100	12		12		1400		3,15		3,15	12		1400		3,15		3,15	3	c
						1000	3		3							3							3	c
2018	**4721**	**Process water (pork industry)**	4,83		4,83	1000	71		71		72000		4,86		4,86	71		72000		4,86		4,86	3	c
						10000	8		8							8							3	c

MICROVAL® NEN

Negative result

*After 72h incubation time, some morphologic and motility evolutions of the tested Campylobacter spp strains were observed by microscopy:
- Slight evolution to coccoid cells
- Weak motility

Detailed confirmation

Sample N°	Alternative method : CampyFood Agar (CFA)																									
	PSD													CFB												
	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic conditions 41,5°C	Oxidase test	Microscopic observation		Confirmed/ Tested	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C (streaking)		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic condition 41,5°C	Oxidase test	Microscopic observation		Confirmed/tested
					24H	72H	24H	72H	40-48H	40-48H		24H	72H						24H	72H	24H	72H	40-48H	40-48H		24H	72H	
562-1	-1	61	10673	/	-	-	+	+	-	-	+	+	+	5/5	-1	16	11010	/	-	-	+	+	-	-	+	+	+	5/5
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
	-2	12	10779	/	-	-	+	+	-	-	+	+	+	5/5	-2	2	3973	/	-	-	+	+	-	-	+	+	+	5/5
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
562-2	-1	80	11417	/	-	-	+	+	-	-	+	+	+	5/5	-1	30	11150	/	-	-	+	+	-	-	+	+	+	5/5
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
	-2	9	11593	/	-	-	+	+	-	-	+	+	+	5/5	-2	7	11356	/	-	-	+	+	-	-	+	+	+	5/5
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
563-1	-1	0	/	/										/	-1	0	/	/										/
	-2	0	/	/										/	-2	0	/	/										/

Sample N°	Alternative method : CampyFood Agar (CFA)																								
	PSD													CFB											
	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic conditions 41,5°C	Oxidase test	Microscopic observation		Confirmed/ Tested	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C (streaking)		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic condition 41,5°C	Oxidase test	Microscopic observation		Confirmed/tested
					24H	72H	24H	72H	40-48H	40-48H		24H	72H						24H	72H	24H	72H	40-48H	40-48H		24H	72H	
563-2	-1	103	10744	/	-	-	+	+	-	-	+	+	+	5/5	-1	1	10456	/	-	-	+	+	-	-	+	+	+	1/1
					-	-	+	+	-	-	+	+	+															
					-	-	+	+	-	-	+	+	+															
					-	-	+	+	-	-	+	+	+															
					-	-	+	+	-	-	+	+	+															
	-2	8	10811	/	-	-	+	+	-	-	+	+	+	5/5	-2	0	/	/										/
					-	-	+	+	-	-	+	+	+															
					-	-	+	+	-	-	+	+	+															
					-	-	+	+	-	-	+	+	+															
					-	-	+	+	-	-	+	+	+															
564-1	-1	1	10430	/	-	-	+	+	-	-	+	+	+	1/1	-1	1	10193	/	-	-	+	+	-	-	+	+	+	1/1
	-2	0	11776	/										/	-2	0	/	/										/
564-2	-1	7	11776	/	-	-	+	+	-	-	+	+	+	5/5	-1	0	/	/										/
					-	-	+	+	-	-	+	+	+															
					-	-	+	+	-	-	+	+	+															
					-	-	+	+	-	-	+	+	+															
					-	-	+	+	-	-	+	+	+															
	-2	0	/	/										/	-2	0	/	/										/

MICROVAL® NEN

Sample N°	Alternative method : CampyFood Agar (CFA)																								
	PSD													CFB											
	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic conditions 41,5°C	Oxidase test	Microscopic observation		Confirmed/ Tested	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C (streaking)		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic condition 41,5°C	Oxidase test	Microscopic observation		Confirmed/tested
					24H	72H	24H	72H	40-48H	40-48H		24H	72H						24H	72H	24H	72H	40-48H	40-48H		24H	72H	
706-1	-1	8	11383	/	-	-	+	+	-	-	+	+	+		-1	2	10326	/	-									
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					+	+	+	+	+	+	-	-short rod (coccus shape)	-	4/5						-	+	+	-	-	+	+	+	2/2
					-	-	+	+	-	-	+	+	+															
					-	-	+	+	-	-	+	+	+															
	-2			/											-2	0		/										
														/														/
					-	-	+	+	-	-	+	+	+															
706-2	-1	3	11016	/	-	-	+	+	-	-	+	+	+		-1	0		/										
					-	-	+	+	-	-	+	+	+	3/3														/
	-2			/										/	-2	0		/										/
	-1	0		/										/	-1	3	6282	/	+	+	+	+	+	+	-	-short rod (coccus shape)	-short rod (coccus shape)	1/3
																			-	-	+	+	-	-	+	+	+	
707-1																			+	+	+	+	+	+	-	-short rod (coccus shape)	-short rod (coccus shape)	
	-2			/										/	-2	0		/										/

MICROVAL® NEN

Sample N°	Alternative method : CampyFood Agar (CFA)																									
	PSD													CFB												
	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic conditions 41,5°C	Oxidase test	Microscopic observation		Confirmed/ Tested	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C (streaking)		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic condition 41,5°C	Oxidase test	Microscopic observation		Confirmed/tested
					24H	72H	24H	72H	40-48H	40-48H		24H	72H						24H	72H	24H	72H	40-48H	40-48H		24H	72H	
707-2	-1	0		/										/	-1	1	6235	/	-	-	+	+	-	-	+	+	+	1/1
	-2			/										/	-2	0		/										
708-1	-1	1	6145	/	-	-	+	+	-	-	+	+	+	1/1	-1	3	10786	/	-	-	+	+	-	-	+	+	+	3/3
	-2			/										/	-2	0		/										/
708-2	-1	3	11553	/	-	-	+	+	-	-	+	+	+	3/3	-1	4	11098	/	-	-	+	+	-	-	+	+	+	4/4
	-2			/										/	-2	0		/										/

MICROVAL® NEN

Sample N°	Alternative method : CampyFood Agar (CFA)																									
	PSD													CFB												
	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic conditions 41,5°C	Oxidase test	Microscopic observation		Confirmed/ Tested	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C (streaking)		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic condition 41,5°C	Oxidase test	Microscopic observation		Confirmed/tested
					24H	72H	24H	72H	40-48H	40-48H		24H	72H						24H	72H	24H	72H	40-48H	40-48H		24H	72H	
898-1	-1	338	6418	/	+	+	+	+	+	+	-	-short rod (coccus shape)	-short rod (coccus shape)	2/5	-1	287	10722	/	+	+	+	+	-	-	+	+	+	4/5
					+	+	+	+	-	-	+	+	+						+	+	+	+	+	+	-	short rod (coccus shape)	short rod (coccus shape)	
					+	+	+	+	+	+	-	-short rod (coccus shape)	-short rod (coccus shape)						+	+	+	+	-	-	+	+	+	
					+	+	+	+	+	+	-	-short rod (coccus shape)	-short rod (coccus shape)						+	+	+	+	-	-	+	+	+	
					+	+	+	+	-	-	+	+	+						+	+	+	+	-	-	+	+	+	
	-2	35	8799	/	+	+	+	+	-	-	+	+	+	2/5	-2	25	5089	/	+	+	+	+	-	-	+	+	+	3/5
					+	+	+	+	+	+	-	-short rod (coccus shape)	-short rod (coccus shape)						+	+	+	+	+	+	-	short rod (coccus shape)	short rod (coccus shape)	
					+	+	+	+	+	+	-	-short rod (coccus shape)	-short rod (coccus shape)						+	+	+	+	+	+	-	short rod (coccus shape)	short rod (coccus shape)	
					+	+	+	+	+	+	-	-short rod (coccus shape)	-short rod (coccus shape)						+	+	+	+	-	-	+	+	+	
898-2	-1	273	7582	/	+	+	+	+	+	+	-	-short rod (coccus shape)	-short rod (coccus shape)	2/5	-2	40	10959	/	+	+	+	+	-	-	+	+	+	5/5
					+	+	+	+	-	-	+	+	+						+	+	+	+	-	-	+	+	+	
					+	+	+	+	-	-	+	+	+						+	+	+	+	-	-	+	+	+	
					+	+	+	+	+	+	-	-short rod (coccus shape)	-short rod (coccus shape)						+	+	+	+	-	-	+	+	+	
					+	+	+	+	+	+	-	-short rod (coccus shape)	-short rod (coccus shape)						+	+	+	+	-	-	+	+	+	
	-2	26	304	/	+	+	+	+	+	+	-	-short rod (coccus shape)	-short rod (coccus shape)	0/5	-3	6	10488	/	+	+	+	+	-	-	+	+	+	5/5
					+	+	+	+	+	+	-	-short rod (coccus shape)	-short rod (coccus shape)						+	+	+	+	-	-	+	+	+	
					+	+	+	+	+	+	-	-short rod (coccus shape)	-short rod (coccus shape)						+	+	+	+	-	-	+	+	+	
					+	+	+	+	+	+	-	-short rod (coccus shape)	-short rod (coccus shape)						+	+	+	+	-	-	+	+	+	

MICROVAL® NEN

Sample N°	Alternative method : CampyFood Agar (CFA)																								
	PSD													CFB											
	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic conditions 41,5°C	Oxidase test	Microscopic observation		Confirmed/ Tested	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C (streaking)		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic condition 41,5°C	Oxidase test	Microscopic observation		Confirmed/tested
					24H	72H	24H	72H	40-48H	40-48H		24H	72H						24H	72H	24H	72H	40-48H	40-48H		24H	72H	
899-1	-1	118	5236	/	+	+	+	+	-	-	+	+	+	1/5	-1	63	11744	/	+	+	+	+	-	-	+	+	+	3/5
					+	+	+	+	+	+	-	-short rod (coccus shape)	-short rod (coccus shape)						+	+	+	+	-	-	+	+	+	
					+	+	+	+	+	+	-	-short rod (coccus shape)	-short rod (coccus shape)						+	+	+	+	+	+	-	short rod (coccus shape)	short rod (coccus shape)	
					+	+	+	+	+	+	-	-short rod (coccus shape)	-short rod (coccus shape)						+	+	+	+	-	-	+	+	+	
					+	+	+	+	-	+	-	-short rod (coccus shape)	-short rod (coccus shape)						+	+	+	+	-	-	+	+	+	
	-2	5	11757	/	+	+	+	+	+	+	-	-short rod (coccus shape)	-short rod (coccus shape)	4/5	-2	13	8026	/	+	+	+	+	-	-	+	short rod (coccus shape)	short rod (coccus shape)	3/5
					+	+	+	+	-	-	+	+	+						+	+	+	+	-	-	+	+	+	
					+	+	+	+	-	-	+	+	+						+	+	+	+	-	-	+	+	+	
					+	+	+	+	-	-	+	+	+						+	+	+	+	-	-	+	short rod (coccus shape)	short rod (coccus shape)	
					+	+	+	+	-	-	+	+	+						+	+	+	+	+	+	-	+	+	
899-2	-1	115	11433	/	+	+	+	+	+	+	-	-short rod (coccus shape)	-short rod (coccus shape)	4/5	-1	83	11720	/	+	+	+	+	-	-	+	+	+	5/5
					+	+	+	+	-	-	+	+	+						+	+	+	+	-	-	+	+	+	
					+	+	+	+	-	-	+	+	+						+	+	+	+	-	-	+	+	+	
					+	+	+	+	-	-	+	+	+						+	+	+	+	-	-	+	+	+	
					+	+	+	+	-	-	+	+	+						+	+	+	+	-	-	+	+	+	
	-2	10	11587	/	+	+	+	+	+	+	-	-short rod (coccus shape)	-short rod (coccus shape)	3/5	-2	5	11605	/	+	+	+	+	+	+	-	short rod (coccus shape)	short rod (coccus shape)	3/5
					+	+	+	+	+	+	-	-short rod (coccus shape)	-short rod (coccus shape)						+	+	+	+	-	-	+	+	+	
					+	+	+	+	-	-	+	+	+						+	+	+	+	-	+	-	long rods	long rods	
					+	+	+	+	-	-	+	+	+						+	+	+	+	-	-	+	+	+	
901-1	-1	140	11535	/	+	+	+	+	-	-	+	+	+	3/5	-1	140	11474	/	+	+	+	+	-	-	+	+	+	4/5
					+	+	+	+	-	-	+	+	+						+	+	+	+	-	-	+	+	+	
					+	+	+	+	+	+	-	-short rod (coccus shape)	-short rod (coccus shape)						+	+	+	+	-	-	+	+	+	
					+	+	+	+	-	-	+	+	+						+	+	+	+	-	-	+	+	+	
					+	+	+	+	-	+	-	long rods	long rods						+	+	+	+	-	+	-	long rods	long rods	
	-2	5	11887	/	+	+	+	+	-	-	+	+	+	5/5	-2	14	10351	/	+	+	+	+	+	+	-	short rod (coccus shape)	short rod (coccus shape)	3/5
					+	+	+	+	-	-	+	+	+						+	+	+	+	-	-	+	+	+	
					+	+	+	+	-	-	+	+	+						+	+	+	+	+	+	-	short rod (coccus shape)	short rod (coccus shape)	
					+	+	+	+	-	-	+	+	+						+	+	+	+	-	-	+	+	+	
					+	+	+	+	-	-	+	+	+						+	+	+	+	-	-	+	+	+	

MICROVAL® NEN

Sample N°	Alternative method : CampyFood Agar (CFA)																									
	PSD													CFB												
	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic conditions 41,5°C	Oxidase test	Microscopic observation		Confirmed/ Tested	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C (streaking)		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic condition 41,5°C	Oxidase test	Microscopic observation		Confirmed/tested
					24H	72H	24H	72H	40-48H	40-48H		24H	72H						24H	72H	24H	72H	40-48H	40-48H		24H	72H	
901-2	-1	131	6843	/	+	+	+	+	-	+	-	long rods	long rods	1/5	-1	42	6748	/	+	+	+	+	+	+	-	short rod (coccus shape)	short rod (coccus shape)	1/5
					+	+	+	+	-	+	-	long rods	long rods						+	+	+	+	+	+	-	short rod (coccus shape)	short rod (coccus shape)	
					+	+	+	+	-	-	+	+	+						+	+	+	+	+	+	-	short rod (coccus shape)	short rod (coccus shape)	
					+	+	+	+	-	+	-	long rods	long rods						+	+	+	+	+	+	-	short rod (coccus shape)	short rod (coccus shape)	
					+	+	+	+	-	+	-	long rods	long rods						+	+	+	+	-	-	+	+	+	
	-2	8	10692	/	+	+	+	+	-	-	+	+	+	2/5	-2	4	10850	/	+	+	+	+	+	+	-	short rod (coccus shape)	short rod (coccus shape)	1/4
					+	+	+	+	+	+	-	-short rod (coccus shape)	-short rod (coccus shape)						+	+	+	+	-	+	+	+	+	
					+	+	+	+	-	-	+	+	+						+	+	+	+	+	+	-	short rod (coccus shape)	short rod (coccus shape)	
					+	+	+	+	+	+	-	-short rod (coccus shape)	-short rod (coccus shape)						+	+	+	+	+	+	-	short rod (coccus shape)	short rod (coccus shape)	
					+	+	+	+	-	+	-	long rods	long rods															
984-1	-1	3	4818	/	-	-	+	+	-	-	+	+	+	2/3	-1	8	11951	/	-	-	+	+	-	-	+	+	+	3/5
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					No growth														No growth									
																			No growth									
	-2	1	/	/	-	-	+	+	-	-	+	+	+	1/1	-2	0		/										/
984-2	-1	2	8512	/	-	-	+	+	-	-	+	+	+	1/2	-1	3	282	/	-	-	+	+	-	-	+	+	+	1/3
					+	NC	+ (NC)	+(NC)	+	+	-	-short rod (coccus shape)	-						+	+	+	+	+	+	-	short rod (coccus shape)	short rod (coccus shape)	
																			+	+	+	+	+	+	-	short rod (coccus shape)	short rod (coccus shape)	
	-2	0	/	/											-2	0		/										/

MICROVAL® NEN

Sample N°	Alternative method : CampyFood Agar (CFA)																									
	PSD													CFB												
	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic conditions 41,5°C	Oxidase test	Microscopic observation		Confirmed/ Tested	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C (streaking)		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic condition 41,5°C	Oxidase test	Microscopic observation		Confirmed/tested
					24H	72H	24H	72H	40-48H	40-48H		24H	72H						24H	72H	24H	72H	40-48H	40-48H		24H	72H	
985-1	-1	4	10346	/	-	-	+	+	-	-	+	+	+	4/4	-1	1	9249	/	-	-	+	+	-	-	+	+	+	1/1
					-	-	+	+	-	-	+	+	+															
					-	-	+	+	-	-	+	+	+															
					-	-	+	+	-	-	+	+	+															
	-2	0		/										/	-2	0		/										/
985-2	-1	2	10099	/	-	-	+	+	-	-	+	+	+	2/2	-1	3	7785	/	-	-	+	+	-	-	+	+	+	2/2
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
	-2	1	7280	/	-	-	+	+	-	-	+	+	+	1/1	-2	0		/	-	-	+	+	-	-	+	+	+	1/1
997-1	-2	>150	219	/										/	-2	>150	225	/										/
	-3	16	218	/	+	+	+	+	+ weak	+	-	-short rod (coccus shape)	-	0/5	-3	10	219	/	+	+	+	+	+ weak	+	-	-short rod (coccus shape)	-	0/5
					+	+	+	+	+ weak	+	-	-short rod (coccus shape)	-						+	+	+	+	+ weak	+	-	-short rod (coccus shape)	-	
					+	+	+	+	+ weak	+	-	-short rod (coccus shape)	-						+	+	+	+	+ weak	+	-	-short rod (coccus shape)	-	
					+	+	+	+	+ weak	+	-	-short rod (coccus shape)	-						+	+	+	+	+ weak	+	-	-short rod (coccus shape)	-	
					+	+	+	+	+ weak	+	-	-short rod (coccus shape)	-						+	+	+	+	+ weak	+	-	-short rod (coccus shape)	-	

MICROVAL® NEN

Sample N°	Alternative method : CampyFood Agar (CFA)																									
	PSD													CFB												
	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic conditions 41,5°C	Oxidase test	Microscopic observation		Confirmed/ Tested	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C (streaking)		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic condition 41,5°C	Oxidase test	Microscopic observation		Confirmed/tested
					24H	72H	24H	72H	40-48H	40-48H		24H	72H						24H	72H	24H	72H	40-48H	40-48H		24H	72H	
997-2	-2	47	225	/	+	+	+	+	+ weak	+	-	-short rod (coccus shape)	-	0/5	-2	51	224	/	+	+	+	+	+ weak	+	-	-short rod (coccus shape)	-	0/5
					+	+	+	+	+ weak	+	-	-short rod (coccus shape)	-						+	+	+	+	+ weak	+	-	-short rod (coccus shape)	-	
					+	+	+	+	+ weak	+	-	-short rod (coccus shape)	-						+	+	+	+	+ weak	+	-	-short rod (coccus shape)	-	
					+	+	+	+	+ weak	+	-	-short rod (coccus shape)	-						+	+	+	+	+ weak	+	-	-short rod (coccus shape)	-	
					+	+	+	+	+ weak	+	-	-short rod (coccus shape)	-						+	+	+	+	+ weak	+	-	-short rod (coccus shape)	-	
	-3	0		/										/	-3	2	218	/	+	+	+	+	+ weak	+	-	-short rod (coccus shape)	-	0/5
																			+	+	+	+	+ weak	+	-	-short rod (coccus shape)	-	
																			+	+	+	+	+ weak	+	-	-short rod (coccus shape)	-	
																			+	+	+	+	+ weak	+	-	-short rod (coccus shape)	-	
																			+	+	+	+	+ weak	+	-	-short rod (coccus shape)	-	
998-1	-1	52	217	/	+	+	+	+	+ weak	+	-	-rod	-	0/5	-1	143	218	/	+	+	+	+	+ weak	+	-	-rod	-	0/5
					+	+	+	+	+ weak	+	-	-rod	-						+	+	+	+	+ weak	+	-	-rod	-	
					+	+	+	+	+ weak	+	-	-rod	-						+	+	+	+	+ weak	+	-	-rod	-	
					+	+	+	+	+ weak	+	-	-rod	-						+	+	+	+	+ weak	+	-	-rod	-	
					+	+	+	+	+ weak	+	-	-rod	-						+	+	+	+	+ weak	+	-	-rod	-	
	-2	5	222	/	+	+	+	+	+ weak	+	-	-rod	-	0/5	-2	8	221	/	+	+	+	+	+ weak	+	-	-rod	-	0/5
					+	+	+	+	+ weak	+	-	-rod	-						+	+	+	+	+ weak	+	-	-rod	-	
					+	+	+	+	+ weak	+	-	-rod	-						+	+	+	+	+ weak	+	-	-rod	-	
					+	+	+	+	+ weak	+	-	-rod	-						+	+	+	+	+ weak	+	-	-rod	-	
					+	+	+	+	+ weak	+	-	-rod	-						+	+	+	+	+ weak	+	-	-rod	-	
998-2	-1	>150	218	/										/	-1	127	217	/	+	+	+	+	+ weak	+	-	-rod	-	0/5
																			+	+	+	+	+ weak	+	-	-rod	-	
																			+	+	+	+	+ weak	+	-	-rod	-	
																			+	+	+	+	+ weak	+	-	-rod	-	
																			+	+	+	+	+ weak	+	-	-rod	-	
	-2	15	228	/	+	+	+	+	+ weak	+	-	-rod	-	0/5	-2	11	229	/	+	+	+	+	+ weak	+	-	-rod	-	0/5
					+	+	+	+	+ weak	+	-	-rod	-						+	+	+	+	+ weak	+	-	-rod	-	
					+	+	+	+	+ weak	+	-	-rod	-						+	+	+	+	+ weak	+	-	-rod	-	
					+	+	+	+	+ weak	+	-	-rod	-						+	+	+	+	+ weak	+	-	-rod	-	
					+	+	+	+	+ weak	+	-	-rod	-						+	+	+	+	+ weak	+	-	-rod	-	

MICROVAL® NEN

Sample N°	Alternative method : CampyFood Agar (CFA)																								
	PSD													CFB											
	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic conditions 41,5°C	Oxidase test	Microscopic observation		Confirmed/ Tested	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C (streaking)		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic condition 41,5°C	Oxidase test	Microscopic observation		Confirmed/tested
					24H	72H	24H	72H	40-48H	40-48H		24H	72H						24H	72H	24H	72H	40-48H	40-48H		24H	72H	
1004-1	-1	13	11217	/	-	-	+	+	-	-	+	+	-	4/5	-1	12	10795	/	-	-	+	+	-	-	+	+	+*	5/5
					-	-	+	+	-	-	+	+	+*						-	-	+	+	-	-	+	+	+*	
					-	-	+	+	-	-	+	+	-						-	-	+	+	-	-	+	+	+*	
					-	-	+	+	-	-	+	+	+*						-	-	+	+	-	-	+	+	-	
					+	/	/	/	/	/	/	/	/						-	-	+	+	-	-	+	+	-	
	-2	1	230	/	+	/	/	/	/	/	/	/	/	0/1	-2	1	7846	/	-	-	+	+	-	-	+	+	+*	1/1
1004-2	-1	6	10596	/	+	/	/	/	/	/	/	/	/	4/5	-1	12	11327	/	-	-	+	+	-	-	+	+	+*	3/5
					-	-	+	+	-	-	+	+	+*						-	-	+	+	-	-	+	+	-	
					-	-	+	+	-	-	+	+	+*						+	/	/	/	/	/	/	/	/	
					-	-	+	+	-	-	+	+	+*						-	-	+	+	-	-	+	+	-	
	-2	1	4714	/	-	-	+	+	-	-	+	+	+*	1/1	-2	2	8071	/	-	-	+	+	-	-	+	+	+*	1/2
																			-	-	+	+	-	-	+	+	-	
1005-1	-1	3	9777	/	-	-	+	+	-	-	+	+	+*	3/3	-1	4	12162	/	-	-	+	+	-	-	+	+	+*	4/4
					-	-	+	+	-	-	+	+	+*						-	-	+	+	-	-	+	+	+*	
					-	-	+	+	-	-	+	+	+*						-	-	+	+	-	-	+	+	+*	
	-2	2	/	/										/	-2	0	/	/										/
1005-2	-1	4	11898	/	-	-	+	+	-	-	+	+	-	4/4	-1	1	4320	/	-	-	+	+	-	-	+	+	+*	1/1
					-	-	+	+	-	-	+	+	+																
					-	-	+	+	-	-	+	+	+																
					-	-	+	+	-	-	+	+	-																
	-2	1	30807	/	-	-	+	+	-	-	+	+	+*	1/1	-2	0	/	/										/

MICROVAL® NEN

Sample N°	Alternative method : CampyFood Agar (CFA)																								
	PSD													CFB											
	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic conditions 41,5°C	Oxidase test	Microscopic observation		Confirmed/ Tested	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C (streaking)		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic condition 41,5°C	Oxidase test	Microscopic observation		Confirmed/tested
					24H	72H	24H	72H	40-48H	40-48H		24H	72H						24H	72H	24H	72H	40-48H	40-48H		24H	72H	
1006-1	-1	76	11415	/	-	-	+	+	-	-	+	+	+	5/5	-1	200	11773	/	-	-	+	+	-	-	+	+	+	5/5
					-	-	+	+	-	-	+	+	+*						-	-	+	+	-	-	+	+	+*	
					-	-	+	+	-	-	+	+	+*						-	-	+	+	-	-	+	+	+*	
					-	-	+	+	-	-	+	+	+*						-	-	+	+	-	-	+	+	+*	
					-	-	+	+	-	-	+	+	+*						-	-	+	+	-	-	+	+	+*	
	-2	6	11896	/	-	-	+	+	-	-	+	+	-	5/5	-2	23	9840	/	-	-	+	+	-	-	+	+	+	5/5
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+*						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+*						-	-	+	+	-	-	+	+	+*	
					-	-	+	+	-	-	+	+	+*						-	-	+	+	-	-	+	+	+*	
1006-2	-1	99	11071	/	-	-	+	+	-	-	+	+	+*	5/5	-1	90	4812	/	-	-	+	+	-	-	+	+	+	5/5
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+*						-	-	+	+	-	-	+	+	+*	
					-	-	+	+	-	-	+	+	+*						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	-						-	-	+	+	-	-	+	+	+*	
	-2	7	10480	/	-	-	+	+	-	-	+	+	+*	5/5	-2	8	11838	/	-	-	+	+	-	-	+	+	+	5/5
					-	-	+	+	-	-	+	+	+*						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+*						-	-	+	+	-	-	+	+	+*	
					-	-	+	+	-	-	+	+	+*						-	-	+	+	-	-	+	+	+*	
1059-1	-2	69	10948	/	-	-	+	+	-	-	+	+	+	5/5	-2	75	11745	/	+	/	+	+	-	-	/	/	/	4/5
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
	-3	6	11680	/	-	-	+	+	-	-	+	+	+	4/5	-3	5	11460	/	-	-	+	+	-	-	+	+	+	5/5
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					+	/	+	+	-	+	/	/	/						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
1059-2		66	10698	/	-	-	+	+	-	-	+	+	+	5/5	-2	65	11896	/	-	-	+	+	-	-	+	+	+	5/5
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
		12	10416	/	-	-	+	+	-	-	+	+	+	5/5	-3	4	10774	/	-	-	+	+	-	-	+	+	+	4/4
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+														

MICROVAL® NEN

Sample N°	Alternative method : CampyFood Agar (CFA)																							
	PSD												CFB											
	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic conditions 41,5°C	Oxidase test	Microscopic observation		Confirmed/ Tested	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C (streaking)		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic condition 41,5°C	Oxidase test	Microscopic observation		Confirmed/tested
					24H	72H	24H	72H	40-48H	40-48H		24H	72H						24H	72H	24H	72H	40-48H	40-48H		24H	72H	
1060-1	-1	1	11741	/	-	-	+	+	-	-	+	+	+	1/5	-1	2	10721	/	-	-	+	+	-	-	+	+	+*	2/2
																			-	-	+	+	-	-	+	+	+	
	-2	1	10143	/	-	-	+	+	-	-	+	+	+	1/5	-2	4	10452	/	-	-	+	+	-	-	+	+	+	4/4
																			-	-	+	+	-	-	+	+	+	
																			-	-	+	+	-	-	+	+	+	
1060-2	-1	1	10134	/	-	-	+	+	-	-	+	+	+	1/5	-1	2	10445	/	+	/	+	/	/	/	/	/	/	1/2
																			-	-	+	+	-	-	+	+	+	
	-2	1	11618	/	-	-	+	+	-	-	+	+	+	1/5	-2	1	11228	/	-	-	+	+	-	-	+	+	+*	1/1
1062-1	-2	176	11439	/	-	-	+	+	-	-	+	+	+	5/5	-2	61	12210	/	-	-	+	+	-	-	+	+	+	5/5
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
	-2	92	11682	/	-	-	+	+	-	-	+	+	+	4/5	-2	71	11492	/	-	-	+	+	-	-	+	+	+	5/5
					+	/	+	+	-	/	/	/	/						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+*						-	-	+	+	-	-	+	+	+	
1063-1	-1	124	11841	/	-	-	+	+	-	-	+	+	+*	5/5	-1	34	9197	/	-	-	+	+	-	-	+	+	+	5/5
					-	-	+	+	-	-	+	+	+*						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+*						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+*						-	-	+	+	-	-	+	+	+	
	-2	19	11822	/	-	-	+	+	-	-	+	+	+*	5/5	-2	6	10713	/	-	-	+	+	-	-	+	+	+	5/5
					-	-	+	+	-	-	+	+	+*						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+*						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+*						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+*						-	-	+	+	-	-	+	+	+	

MICROVAL® NEN

Sample N°	Alternative method : CampyFood Agar (CFA)																								
	PSD													CFB											
	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic conditions 41,5°C	Oxidase test	Microscopic observation		Confirmed/ Tested	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C (streaking)		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic condition 41,5°C	Oxidase test	Microscopic observation		Confirmed/tested
					24H	72H	24H	72H	40-48H	40-48H		24H	72H						24H	72H	24H	72H	40-48H	40-48H		24H	72H	
1063-2	-1	85	10404	/	-	-	+	+	-	-	+	+	+	5/5	-1	102	11112	/	-	-	+	+	-	-	+	+	+*	5/5
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+*	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
	-2	12	11347	/	-	-	+	+	-	-	+	+	+	5/5	-2	8	11514	/	-	-	+	+	-	-	+	+	+	5/5
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
1064-1	-1	80	11045	/	-	-	+	+	-	-	+	+	+	5/5	-1	183	11858	/	-	-	+	+	-	-	+	+	+	5/5
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
	-2	14	11814	/	-	-	+	+	-	-	+	+	+	5/5	-2	8	11751	/	-	-	+	+	-	-	+	+	+	5/5
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
1064-2	-1	81	11482	/	-	-	+	+	-	-	+	+	+	5/5	-1	111	11702	/	-	-	+	+	-	-	+	+	+	5/5
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
	-2	18	12257	/	-	-	+	+	-	-	+	+	+	5/5	-2	13	11669	/	-	-	+	+	-	-	+	+	+	5/5
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
1097-1	-1	0	/	/										/	-1	2	11879	/	-	-	+	+	-	-	+	+	+	2/2
																			-	-	+	+	-	-	+	+	+	
1097-2	-1	0	/	/										/	-1	1	8966	/	-	-	+	+	-	-	+	+	+	1/1

MICROVAL® NEN

Sample N°	Alternative method : CampyFood Agar (CFA)																								
	PSD													CFB											
	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic conditions 41,5°C	Oxidase test	Microscopic observation		Confirmed/ Tested	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C (streaking)		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic condition 41,5°C	Oxidase test	Microscopic observation		Confirmed/tested
					24H	72H	24H	72H	40-48H	40-48H		24H	72H						24H	72H	24H	72H	40-48H	40-48H		24H	72H	
1098-1	-1	10	10686	/	-	-	+	+	-	-	+	+	+	5/5	-1	17	8598	/	-	-	+	+	-	-	+	+	+	5/5
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
	-2	1	944	/	-	-	+	+	-	-	+	+	+	1/5	-2	1	1087	/	-	-	+	+	-	-	+	+	+	1/1
1098-2	-1	5	11722	/	-	-	+	+	-	-	+	+	+	5/5	-1	9	9783	/	-	-	+	+	-	-	+	+	+	5/5
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
	-2	1	746	/	-	-	+	+	-	-	+	+	+	1/5	-2	0	/	/										/
1099-1	-1	36	10923	/	-	-	+	+	-	-	+	+	+	5/5	-1	33	11599	/	-	-	+	+	-	-	+	+	+	5/5
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
	-2	7	11861	/	-	-	+	+	-	-	+	+	+	3/5	-2	1	6892	/	-	-	+	+	-	-	+	+	+	1/1
					-	-	+	+	-	-	+	+	+																
1099-2	-1	31	12031	/	-	-	+	+	-	-	+	+	+	5/5	-1	34	11283	/	-	-	+	+	-	-	+	+	+	5/5
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
	-2	3	11715	/	-	-	+	+	-	-	+	+	+	3/5	-2	3	11013	/	-	-	+	+	-	-	+	+	+	3/3
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	

MICROVAL® NEN

Sample N°	Alternative method : CampyFood Agar (CFA)																									
	PSD													CFB												
	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic conditions 41,5°C	Oxidase test	Microscopic observation		Confirmed/ Tested	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C (streaking)		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic condition 41,5°C	Oxidase test	Microscopic observation		Confirmed/tested
					24H	72H	24H	72H	40-48H	40-48H		24H	72H						24H	72H	24H	72H	40-48H	40-48H		24H	72H	
1272-1	-3	>150	188	/	+				+					0/5	-3	>150	183	/	+				+					0/5
					+				+										+				+					
					+				+										+				+					
					+				+										+				+					
					+				+										+				+					
1272-2	-3	>150	187	/	+				+					0/5	-3	>150	216	/	+				+					0/5
					+				+										+				+					
					+				+										+				+					
					+				+										+				+					
					+				+										+				+					
1273-1	-3	117	194	/	+				+					0/5	-3	>150	179	/	+				+					0/5
					+				+										+				+					
					+				+										+				+					
					+				+										+				+					
					+				+										+				+					
1273-2	-3	>150	180	/	+				+					0/5	-3	>150	179	/	+				+					0/5
					+				+										+				+					
					+				+										+				+					
					+				+										+				+					
					+				+										+				+					
1274-1	-3	>150	184	/	+				+					0/5	-3	>150	191	/	+				+					0/5
					+				+										+				+					
					+				+										+				+					
					+				+										+				+					
					+				+										+				+					
1274-2	-3	>150	202	/	+				+					0/5	-3	>150	183	/	+				+					0/5
					+				+										+				+					
					+				+										+				+					
					+				+										+				+					
					+				+										+				+					
1275-1	-3	>150	184	/	+				+					0/5	-3	>150	199	/	+				+					0/5
					+				+										+				+					
					+				+										+				+					
					+				+										+				+					
					+				+										+				+					

MICROVAL® NEN

Sample N°	Alternative method : CampyFood Agar (CFA)																										
	PSD													CFB													
	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic conditions 41,5°C	Oxidase test	Microscopic observation		Confirmed/ Tested	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C (streaking)		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic condition 41,5°C	Oxidase test	Microscopic observation		Confirmed/tested
					24H	72H	24H	72H	40-48H	40-48H		24H	72H						24H	72H	24H	72H	40-48H	40-48H		24H	72H	
1275-2	-3	>150	184	/	+				+					0/5	-3	>150	191	/	+				+					0/5
					+				+										+				+				
					+				+										+				+				
					+				+										+				+				
					+				+										+				+				
1276-1	-3	>150	213	/	+				+					0/5	-3	>150	215	/	+				+					0/5
					+				+										+				+				
					+				+										+				+				
					+				+										+				+				
					+				+										+				+				
1276-2	-3	>150	219	/	+				+					0/5	-3	>150	211	/	+				+					0/5
					+				+										+				+				
					+				+										+				+				
					+				+										+				+				
					+				+										+				+				
1301-1	-3	>150	211	/	+				+					0/5	-3	>150	232	/	+				+					0/5
					+				+										+				+				
					+				+										+				+				
					+				+										+				+				
					+				+										+				+				
1301-2	-3	>150	216	/	+				+					0/5	-3	>150	211	/	+				+					0/5
					+				+										+				+				
					+				+										+				+				
					+				+										+				+				
					+				+										+				+				
1399-1	-1	134	10130	/	-	-	+	+	-	-	+	+	+*	5/5	-1	159	9966	/	-	-	+	+	-	-	+	+	+	5/5
					-	-	+	+	-	-	+	+	+*						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+*						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+*	
	-2	15	10188	/	-	-	+	+	-	-	+	+	+*	5/5	-2	8	9872	/	-	-	+	+	-	-	+	+	+	5/5
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+*						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+*						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+*						-	-	+	+	-	-	+	+	+	

MICROVAL® NEN

Sample N°	Alternative method : CampyFood Agar (CFA)																									
	PSD													CFB												
	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic conditions 41,5°C	Oxidase test	Microscopic observation		Confirmed/ Tested	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C (streaking)		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic condition 41,5°C	Oxidase test	Microscopic observation		Confirmed/tested
					24H	72H	24H	72H	40-48H	40-48H		24H	72H						24H	72H	24H	72H	40-48H	40-48H		24H	72H	
1399-2	-1	154	11443	/	-	-	+	+	-	-	+	+	+*	5/5	-1	161	10684	/	-	-	+	+	-	-	+	+	+	5/5
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+*	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+*						-	-	+	+	-	-	+	+	+*	
					-	-	+	+	-	-	+	+	+*						-	-	+	+	-	-	+	+	+*	
	-2	11	10432	/	-	-	+	+	-	-	+	+	+	5/5	-2	7	10968	/	-	-	+	+	-	-	+	+	+*	5/5
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+*						-	-	+	+	-	-	+	+	+*	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
1400-1	-1	72	11079	/	-	-	+	+	-	-	+	+	+	5/5	-1	98	9742	/	-	-	+	+	-	-	+	+	+	5/5
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
	-2	2	8799	/	-	-	+	+	-	-	+	+	+	2/2	-2	6	11334	/	-	-	+	+	-	-	+	+	+	5/5
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
																			-	-	+	+	-	-	+	+	+	
																			-	-	+	+	-	-	+	+	+	
																			-	-	+	+	-	-	+	+	+	
1400-2	-1	100	10663	/	-	-	+	+	-	-	+	+	+	5/5	-1	118	10180	/	-	-	+	+	-	-	+	+	+	5/5
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+*	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+*	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
	-2	1	8018	/	-	-	+	+	-	-	+	+	+	1/1	-2	9	11338	/	-	-	+	+	-	-	+	+	+	5/5
																			-	-	+	+	-	-	+	+	+	
																			-	-	+	+	-	-	+	+	+	
																			-	-	+	+	-	-	+	+	+	
																			-	-	+	+	-	-	+	+	+	
1401-1	-1	6	11037	/	-	-	+	+	-	-	+	+	+*	5/5	-1	9	11555	/	-	-	+	+	-	-	+	+	+	5/5
					-	-	+	+	-	-	+	+	+*						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+*						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+*						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+*						-	-	+	+	-	-	+	+	+	
	-2	0	/	/										/	-2	2	11064	/	-	-	+	+	-	-	+	+	+	2/2
																			-	-	+	+	-	-	+	+	+	

MICROVAL® NEN

Sample N°	Alternative method : CampyFood Agar (CFA)																									
	PSD													CFB												
	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic conditions 41,5°C	Oxidase test	Microscopic observation		Confirmed/ Tested	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C (streaking)		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic condition 41,5°C	Oxidase test	Microscopic observation		Confirmed/tested
					24H	72H	24H	72H	40-48H	40-48H		24H	72H						24H	72H	24H	72H	40-48H	40-48H		24H	72H	
1401-2	-1	12	11347	/	-	-	+	+	-	-	+	+	+	5/5	-1	7	11466	/	-	-	+	+	-	-	+	+	+	5/5
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
	-2	1	9214	/	-	-	+	+	-	-	+	+	+	1/1	-2	2	7302	/	-	-	+	+	-	-	+	+	+	2/2
																			-	-	+	+	-	-	+	+	+	
1411-2	-1	2	11308	/	-	-	+	+	-	-	+	+	+	-1	0	/	/	/										
					-	-	+	+	-	-	+	+	+															
1412-1	-1	47	10583	/	-	-	+	+	-	-	+	+	+	5/5	-1	73	11120	/	-	-	+	+	-	-	+	+	+	5/5
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
	-2	9	10590	/	-	-	+	+	-	-	+	+	+	5/5	-2	2	10930	/	-	-	+	+	-	-	+	+	+	2/2
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+															
					-	-	+	+	-	-	+	+	+															
					-	-	+	+	-	-	+	+	+															

MICROVAL® NEN

Sample N°	Alternative method : CampyFood Agar (CFA)																								
	PSD													CFB											
	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic conditions 41,5°C	Oxidase test	Microscopic observation		Confirmed/ Tested	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C (streaking)		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic condition 41,5°C	Oxidase test	Microscopic observation		Confirmed/tested
					24H	72H	24H	72H	40-48H	40-48H		24H	72H						24H	72H	24H	72H	40-48H	40-48H		24H	72H	
1412-2	-1	34	10677	/	-	-	+	+	-	-	+	+	+	5/5	-1	27	10979	/	-	-	+	+	-	-	+	+	+	5/5
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
	-2	4	11239	/	-	-	+	+	-	-	+	+	+	4/4	-2	1	3496	/	-	-	+	+	-	-	+	+	+	1/1
					-	-	+	+	-	-	+	+	+															
					-	-	+	+	-	-	+	+	+															
					-	-	+	+	-	-	+	+	+															
1413-1	-2	77	11489	/	-	-	+	+	-	-	+	+	+	5/5	-2	66	6724	/	-	-	+	+	-	-	+	+	+	5/5
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
	-3	14	10970	/	-	-	+	+	-	-	+	+	+	5/5	-3	12	10426	/	-	-	+	+	-	-	+	+	+	5/5
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
1413-2	-2	140	10112	/	-	-	+	+	-	-	+	+	+	5/5	-2	64	10144	/	-	-	+	+	-	-	+	+	+	5/5
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
	-3	11	10935	/	-	-	+	+	-	-	+	+	+	5/5	-3	5	10934	/	-	-	+	+	-	-	+	+	+	5/5
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
																			-	-	+	+	-	-	+	+	+	
																			-	-	+	+	-	-	+	+	+	
1414-1	-1	466	/	/										/	-1	263	10694	/	-	-	+	+	-	-	+	+	+	5/5
																			-	-	+	+	-	-	+	+	+	
																			-	-	+	+	-	-	+	+	+	
	-2	49	10893	/	-	-	+	+	-	-	+	+	+	5/5	-2	23	10878	/	-	-	+	+	-	-	+	+	+	5/5
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	

MICROVAL® NEN

Sample N°	Alternative method : CampyFood Agar (CFA)																									
	PSD													CFB												
	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic conditions 41,5°C	Oxidase test	Microscopic observation		Confirmed/ Tested	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C (streaking)		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic condition 41,5°C	Oxidase test	Microscopic observation		Confirmed/tested
					24H	72H	24H	72H	40-48H	40-48H		24H	72H						24H	72H	24H	72H	40-48H	40-48H		24H	72H	
1414-2	-1	354	11682	/	-	-	+	+	-	-	+	+	+*	5/5	-1	565	/	/										/
					-	-	+	+	-	-	+	+	+															
					-	-	+	+	-	-	+	+	+															
					-	-	+	+	-	-	+	+	+															
					-	-	+	+	-	-	+	+	+															
	-2	31	10646	/	-	-	+	+	-	-	+	+	+	5/5	-2	58	10873	/	-	-	+	+	-	-	+	+	+	5/5
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
1415-1	-1	34	10010	/	-	-	+	+	-	-	+	+	+	5/5	-1	60	10053	/	-	-	+	+	-	-	+	+	+*	5/5
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
	-2	6	10562	/	-	-	+	+	-	-	+	+	+	5/5	-2	3	11446	/	-	-	+	+	-	-	+	+	+	3/3
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+															
					-	-	+	+	-	-	+	+	+															
1415-2	-1	60	9682	/	-	-	+	+	-	-	+	+	+	5/5	-1	79	9292	/	-	-	+	+	-	-	+	+	+	5/5
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
	-2	7	9803	/	-	-	+	+	-	-	+	+	+	5/5	-2	9	9127	/	-	-	+	+	-	-	+	+	+	5/5
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
1416-1	-1	136	10288	/	-	-	+	+	-	-	+	+	+	5/5	-1	116	9865	/	-	-	+	+	-	-	+	+	+	5/5
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
	-2	12	10320	/	-	-	+	+	-	-	+	+	+	5/5	-2	17	9750	/	-	-	+	+	-	-	+	+	+	5/5
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	

MICROVAL® NEN

Sample N°	Alternative method : CampyFood Agar (CFA)																								
	PSD													CFB											
	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic conditions 41,5°C	Oxidase test	Microscopic observation		Confirmed/ Tested	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C (streaking)		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic condition 41,5°C	Oxidase test	Microscopic observation		Confirmed/tested
					24H	72H	24H	72H	40-48H	40-48H		24H	72H						24H	72H	24H	72H	40-48H	40-48H		24H	72H	
1416-2	-1	114	9698	/	-	-	+	+	-	-	+	+	+*	5/5	-1	98	9370	/	-	-	+	+	-	-	+	+	+	5/5
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
	-2	16	9662	/	-	-	+	+	-	-	+	+	+	5/5	-2	12	9453	/	-	-	+	+	-	-	+	+	+	5/5
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
					-	-	+	+	-	-	+	+	+						-	-	+	+	-	-	+	+	+	
1435-1	-3	42	188	/	+									0/5	-3	60	184	/	+									0/5
					+														+									
					+														+									
					+														+									
					+														+									
1435-2	-3	55	216	/	+									0/5	-3	56	184	/	+									0/5
					+														+									
					+														+									
					+														+									
					+														+									
1436-1	-1	27	195	/	+									0/5	-1	12	188	/	+									0/5
					+														+									
					+														+									
					+														+									
					+														+									
	-2	3	184	/	+									0/5	-2	0	/	/										/
					+																							
					+																							
					+																							
					+																							
1436-2	-1	127	190	/	+									0/5	-1	7	187	/	+									0/5
					+														+									
					+														+									
					+														+									
					+														+									
	-2	6	199	/	+									0/5	-2	1	187	/	+									0/5
					+														+									
					+														+									
					+														+									
					+														+									

MICROVAL® NEN

Sample N°	Alternative method : CampyFood Agar (CFA)																											
	PSD													CFB														
	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic conditions 41,5°C	Oxidase test	Microscopic observation		Confirmed/ Tested	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C (streaking)		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic condition 41,5°C	Oxidase test	Microscopic observation		Confirmed/tested
					24H	72H	24H	72H	40-48H	40-48H		24H	72H						24H	72H	24H	72H	40-48H	40-48H		24H	72H	
1437-1	-3	36	191	/	+									0/5	-3	22	184	/	+									0/5
					+														+									
					+														+									
					+														+									
					+														+									
1437-2	-3	57	188	/	+									0/5	-3	25	185	/	+									0/5
					+														+									
					+														+									
					+														+									
					+														+									
1438-1	-2	136	182	/	+									0/5	-2	110	204	/	+									0/5
					+														+									
					+														+									
					+														+									
	-3	14	401	/	+									0/5	-3	16	201	/	+									0/5
					+														+									
					+														+									
					+														+									
					+														+									
1438-1	-2	123	192	/	+									0/5	-2	177	197	/	+									0/5
					+														+									
					+														+									
					+														+									
					+														+									
	-3	14	210	/	+									0/5	-3	28	191	/	+									0/5
					+														+									
					+														+									
					+														+									
					+														+									
8641	-2	36	8822	+	-	-	+	+	-		+	+	+	5/5	-2	15	9422	+	+	-	-	+	+	-		+	+	+	5/5
				+	-	-	+	+	-		+	+	+					+	+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	+	-	-	+	+	-		+	+	+	
	-3	5	8491	+	-	-	+	+	-		+	+	+	5/5	-3	2	9792	+	+	-	-	+	+	-		+	+	+	2/5
				+	-	-	+	+	-		+	+	+					+	+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+															
				+	-	-	+	+	-		+	+	+															

MICROVAL® NEN

Sample N°	Alternative method : CampyFood Agar (CFA)																									
	PSD													CFB												
	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic conditions 41,5°C	Oxidase test	Microscopic observation		Confirmed/ Tested	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C (streaking)		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic condition 41,5°C	Oxidase test	Microscopic observation		Confirmed/tested
					24H	72H	24H	72H	40-48H	40-48H		24H	72H						24H	72H	24H	72H	40-48H	40-48H		24H	72H	
8642	-3	80	8534	+	-	-	+	+	-		+	+	+	5/5	-3	39	8607	+	-	-	+	+	-		+	+	+	5/5
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
	-4	17	8628	+	-	-	+	+	-		+	+	+	5/5	-4	8	8235	+	-	-	+	+	-		+	+	+	5/5
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
8643	-3	153	8803	+	-	-	+	+	-		+	+	+	5/5	-3	92	8485	+	-	-	+	+	-		+	+	+	5/5
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
	-4	24	9121	+	-	-	+	+	-		+	+	+	5/5	-4	4	9260	+	-	-	+	+	-		+	+	+	4/5
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+															
8644	-1	11	8572	+	-	-	+	+	-		+	+	+	5/5	-1	1	4508	+	-	-	+	+	-		+	+	+	1/5
				+	-	-	+	+	-		+	+	+															
				+	-	-	+	+	-		+	+	+															
				+	-	-	+	+	-		+	+	+															
				+	-	-	+	+	-		+	+	+															
	-2	0	/											/	-2	0	/												/
8645	-1	11	8502	+	-	-	+	+	-		+	+	+	5/5	-1	24	8392	+	-	-	+	+	-		+	+	+	5/5
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
	-2	0	/											/	-2	6	8552	+	-	-	+	+	-		+	+	+	5/5
																		+	-	-	+	+	-		+	+	+	
																		+	-	-	+	+	-		+	+	+	
																		+	-	-	+	+	-		+	+	+	
																		+	-	-	+	+	-		+	+	+	

Sample N°	Alternative method : CampyFood Agar (CFA)																								
	PSD													CFB											
	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic conditions 41,5°C	Oxidase test	Microscopic observation		Confirmed/ Tested	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C (streaking)		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic condition 41,5°C	Oxidase test	Microscopic observation		Confirmed/tested
					24H	72H	24H	72H	40-48H	40-48H		24H	72H						24H	72H	24H	72H	40-48H	40-48H		24H	72H	
8646	-1	5	9540	+	-	-	+	+	-		+	+	+	5/5	-1	3	8950	+	-	-	+	+	-		+	+	+	3/5
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+														
				+	-	-	+	+	-		+	+	+														
	-2	0	/											/	-2	2	7680	+	-	-	+	+	-		+	+	+	2/5
																		+	-	-	+	+	-		+	+	+	
8647	-1	10	9684	+	-	-	+	+	-		+	+	+	5/5	-1	9	8517	+	-	-	+	+	-		+	+	+	5/5
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
	-2	1	9256	+	-	-	+	+	-		+	+	+	1/5	-2	2	8969	+	-	-	+	+	-		+	+	+	2/5
																		+	-	-	+	+	-		+	+	+	
757	-1	59	8314	+	-	-	+	+	-		+	+	+	5/5	-1	38	8303	+	-	-	+	+	-		+	+	+	5/5
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
	-2	6	8113	+	-	-	+	+	-		+	+	+	5/5	-2	5	8456	+	-	-	+	+	-		+	+	+	5/5
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
758	-2	32	8445	+	-	-	+	+	-		+	+	+	5/5	-2	24	8139	+	-	-	+	+	-		+	+	+	5/5
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
	-3	3	8170	+	-	-	+	+	-		+	+	+	3/3	-3	2	8062	+	-	-	+	+	-		+	+	+	2/5
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	

MICROVAL® NEN

Sample N°	Alternative method : CampyFood Agar (CFA)																									
	PSD													CFB												
	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic conditions 41,5°C	Oxidase test	Microscopic observation		Confirmed/ Tested	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C (streaking)		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic condition 41,5°C	Oxidase test	Microscopic observation		Confirmed/tested
					24H	72H	24H	72H	40-48H	40-48H		24H	72H						24H	72H	24H	72H	40-48H	40-48H		24H	72H	
759	-3	20	8461	+	-	-	+	+	-		+	+	+	5/5	-3	22	8325	+	-	-	+	+	-		+	+	+	5/5
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
	-4	2	8258	+	-	-	+	+	-		+	+	+	2/2	-4	1	8479	+	-	-	+	+	-		+	+	+	1/1
				+	-	-	+	+	-		+	+	+															
760	-1	23	8484	+	-	-	+	+	-		+	+	+	5/5	-1	5	8100	+	-	-	+	+	-		+	+	+	5/5
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
	-2	2	8415	+	-	-	+	+	-		+	+	+	2/2	-2	1	8285	+	-	-	+	+	-		+	+	+	1/5
				+	-	-	+	+	-		+	+	+															
761	-1	12	8352	+	-	-	+	+	-		+	+	+	5/5	-1	15	8341	+	-	-	+	+	-		+	+	+	5/5
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
	-2	2	8307	+	-	-	+	+	-		+	+	+	2/2	-2	4	8397	+	-	-	+	+	-		+	+	+	4/5
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
																		+	-	-	+	+	-		+	+	+	
762	-2	14	8249	+	-	-	+	+	-		+	+	+	5/5	-2	17	8356	+	-	-	+	+	-		+	+	+	5/5
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
	-3	2	8446	+	-	-	+	+	-		+	+	+	2/2	-3	1	8364	+	-	-	+	+	-		+	+	+	1/5
				+	-	-	+	+	-		+	+	+															

Alternative method : CampyFood Agar (CFA)

PSD

Sample N°	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic conditions 41,5°C	Oxidase test	Microscopic observation		Confirmed/ Tested
					24H	72H	24H	72H	40-48H	40-48H		24H	72H	
939	-1	29	8869	+	-	-	+	+	-		+	+	+	5/5
				+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+	
	-2	2	9001	+	-	-	+	+	-		+	+	+	2/2
				+	-	-	+	+	-		+	+	+	
940	-2	38	9158	+	-	-	+	+	-		+	+	+	5/5
				+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+	
	-3	3	9383	+	-	-	+	+	-		+	+	+	3/5
				+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+	
941	-2	22	8729	+	-	-	+	+	-		+	+	+	5/5
				+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+	
	-3	0	/											/

CFB

Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C (streaking)		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic condition 41,5°C	Oxidase test	Microscopic observation		Confirmed/tested
				24H	72H	24H	72H	40-48H	40-48H		24H	72H	
-1	36	8676	+	-	-	+	+	-		+	+	+	5/5
			+	-	-	+	+	-		+	+	+	
			+	-	-	+	+	-		+	+	+	
			+	-	-	+	+	-		+	+	+	
			+	-	-	+	+	-		+	+	+	
-2	4	8756	+	-	-	+	+	-		+	+	+	4/5
			+	-	-	+	+	-		+	+	+	
			+	-	-	+	+	-		+	+	+	
-2	35	9162	+	-	-	+	+	-		+	+	+	5/5
			+	-	-	+	+	-		+	+	+	
			+	-	-	+	+	-		+	+	+	
			+	-	-	+	+	-		+	+	+	
-3	4	9206	+	-	-	+	+	-		+	+	+	4/5
			+	-	-	+	+	-		+	+	+	
			+	-	-	+	+	-		+	+	+	
-2	37	8484	+	-	-	+	+	-		+	+	+	5/5
			+	-	-	+	+	-		+	+	+	
			+	-	-	+	+	-		+	+	+	
			+	-	-	+	+	-		+	+	+	
			+	-	-	+	+	-		+	+	+	
-3	0	/											

MICROVAL® NEN

Sample N°	Alternative method : CampyFood Agar (CFA)																											
	PSD													CFB														
	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic conditions 41,5°C	Oxidase test	Microscopic observation		Confirmed/ Tested	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C (streaking)		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic condition 41,5°C	Oxidase test	Microscopic observation		Confirmed/tested
					24H	72H	24H	72H	40-48H	40-48H		24H	72H						24H	72H	24H	72H	40-48H	40-48H		24H	72H	
942	-2	15	9023	+	-	-	+	+	-		+	+	+	5/5	-2	13	9021	+	-	-	+	+	-		+	+	+	5/5
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
	-3	0												/	-3	2	8709	+	-	-	+	+	-		+	+	+	2/5
																		+	-	-	+	+	-		+	+	+	
943	-2	64	8470	+	-	-	+	+	-		+	+	+	5/5	-3	23	9044	+	-	-	+	+	-		+	+	+	5/5
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
	-3	9	8876	+	-	-	+	+	-		+	+	+	5/5	-4	2	8878	+	-	-	+	+	-		+	+	+	2/5
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+															
				+	-	-	+	+	-		+	+	+															
				+	-	-	+	+	-		+	+	+															

MICROVAL® NEN

Sample N°	Alternative method : CampyFood Agar (CFA)																								
	PSD													CFB											
	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic conditions 41,5°C	Oxidase test	Microscopic observation		Confirmed/ Tested	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C (streaking)		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic condition 41,5°C	Oxidase test	Microscopic observation		Confirmed/tested
					24H	72H	24H	72H	40-48H	40-48H		24H	72H														
1417	-1	9	8665	+	-	-	+	+	-		+	+	+	5/5	-1	1	133	-	+	+	+	+	-		-	-	-	0/1
				+	-	-	+	+	-		+	+	+														
				+	-	-	+	+	-		+	+	+														
				+	-	-	+	+	-		+	+	+														
				+	-	-	+	+	-		+	+	+														
	-2	0	/											/	-2	0	/											/
1418	-1	4	132	-	-	+	+	+	-		-	-	-	0/5	-1	5	253	-	+	+	+	+	-		+	-	-	2/5
				-	-	+	+	+	-		-	-	-				8655	+	-	-	+	+	-		+	+	+	
				-	-	+	+	+	-		-	-	-				1446	-	+	+	+	+	-		+	-	-	
				-	-	+	+	+	-		-	-	-				8690	+	-	-	+	+	-		+	+	+	
																	5798	-	+	+	+	+	-		+	-	-	
	-2	0	/											/	-2	0	/											/
1419	-1	17 (large)	8843	+	-	-	+	+	-		+	+	+	5/5	-1	38 (large)	8740	+	-	-	+	+	-		+	+	+	5/5
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
		>150 (small)	137	-	+	+	+	+	-		+	-	-	0/5		>150 (small)	134	-	+	+	+	+	-		+	-	-	0/5
				-	+	+	+	+	-		+	-	-					-	+	+	+	+	-		+	-	-	
				-	+	+	+	+	-		+	-	-					-	+	+	+	+	-		+	-	-	
				-	+	+	+	+	-		+	-	-					-	+	+	+	+	-		+	-	-	
				-	+	+	+	+	-		+	-	-					-	+	+	+	+	-		+	-	-	
	-2	3 (large)	9029	+	-	-	+	+	-		+	+	+	3/3	-2	3 (large)	8865	+	-	-	+	+	-		+	+	+	3/3
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
		43 (small)	146	-	+	+	+	+	-		+	-	-	0/5		128 (small)	133	-	+	+	+	+	-		+	-	-	0/5
				-	+	+	+	+	-		+	-	-					-	+	+	+	+	-		+	-	-	
				-	+	+	+	+	-		+	-	-					-	+	+	+	+	-		+	-	-	
				-	+	+	+	+	-		+	-	-					-	+	+	+	+	-		+	-	-	
				-	+	+	+	+	-		+	-	-					-	+	+	+	+	-		+	-	-	

MICROVAL® NEN

Sample N°	Alternative method : CampyFood Agar (CFA)																											
	PSD															CFB												
	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic conditions 41,5°C	Oxidase test	Microscopic observation		Confirmed/ Tested	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C (streaking)		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic condition 41,5°C	Oxidase test	Microscopic observation		Confirmed/tested
					24H	72H	24H	72H	40-48H	40-48H		24H	72H						24H	72H	24H	72H	40-48H	40-48H		24H	72H	
1420	-1	115 (large)	8463	+	-	-	+	+	-		+	+	+	5/5	-1	40 (large)	8293	+	-	-	+	+	-		+	+	+	5/5
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
		>150 (small)	273	-	-	-	+	+	-		+	-	-	0/5		>150 (small)	152	-	-	-	+	+	-		+	-	-	0/5
				-	-	-	+	+	-		+	-	-				619	-	-	-	+	+	-		+	-	-	
				-	-	-	+	+	-		+	-	-				8495	-	+	+	+	+	-		+	-	-	
				-	-	-	+	+	-		+	-	-				9274	-	+	+	+	+	-		+	-	-	
				-	-	-	+	+	-		+	-	-				8349	-	+	+	+	+	-		+	-	-	
	-2	19 (large)	8421	+	-	-	+	+	-		+	+	+	5/5	-2	4 (large)	8415	+	-	-	+	+	-		+	+	+	4/4
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+															
		25 (small)	188	+d	-	+	+	+	-		+	-	-	0/5		16 (small)	363	-	-	-	+	+	-		+	-	-	0/5
				+d	-	+	+	+	-		+	-	-					-	-	-	+	+	-		+	-	-	
				-	-	-	+	+	-		+	-	-					-	-	-	+	+	-		+	-	-	
				-	-	-	+	+	-		+	-	-					-	-	-	+	+	-		+	-	-	
				+d	-	+	+	+	-		+	-	-					-	-	-	+	+	-		+	-	-	
1421	-2	47	8439	+	-	-	+	+	-		+	+	+	5/5	-2	58	8470	+	-	-	+	+	-		+	+	+	5/5
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
	-3	7	8710	+	-	-	+	+	-		+	+	+	5/5	-3	4	9365	+	-	-	+	+	-		+	+	+	1/4
				+	-	-	+	+	-		+	+	+					-	-	-	+	+	-		+	-	-	
				+	-	-	+	+	-		+	+	+					-	-	-	+	+	-		+	-	-	
				+	-	-	+	+	-		+	+	+					-	-	-	+	+	-		+	-	-	
				+	-	-	+	+	-		+	+	+															

MICROVAL® NEN

Sample N°	Alternative method : CampyFood Agar (CFA)																											
	PSD													CFB														
	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic conditions 41,5°C	Oxidase test	Microscopic observation		Confirmed/ Tested	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C (streaking)		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic condition 41,5°C	Oxidase test	Microscopic observation		Confirmed/tested
					24H	72H	24H	72H	40-48H	40-48H		24H	72H						24H	72H	24H	72H	40-48H	40-48H		24H	72H	
1422	-2	28 (large)	9012	+	-	-	+	+	-		+	+	+	5/5	-2	79 (large)	9427	+	-	-	+	+	-		+	+	+	5/5
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
		>150 (small)	904	-	-	-	+	+	-		+	-	-	0/5		/	/											/
			249	-	-	-	+	+	-		+	-	-															
			566	-	-	-	+	+	-		+	-	-															
			274	-	-	-	+	+	-		+	-	-															
			185	-	-	-	+	+	-		+	-	-															
	-3	3 (large)	9959	+	-	-	+	+	-		+	+	+	3/3	-3	7 (large)	9208	+	-	-	+	+	-		+	+	+	3/3
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
		25 (small)	214	-	-	-	+	+	-		+	-	-	0/5		/	/											/
			207	-	-	-	+	+	-		+	-	-															
			484	-	-	-	+	+	-		+	-	-															
			896	-	-	-	+	+	-		+	-	-															
			246	-	-	-	+	+	-		+	-	-															
1538	-1	51	8496	+	-	-	+	+	-		+	+	+	5/5	-1	27	8479	+	-	-	+	+	-		+	+	+	5/5
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
	-2	1	8651	+	-	-	+	+	-		+	+	+	1/1	-2	8	8603	+	-	-	+	+	-		+	+	+	5/5
																		+	-	-	+	+	-		+	+	+	
																		+	-	-	+	+	-		+	+	+	
																		+	-	-	+	+	-		+	+	+	
																		+	-	-	+	+	-		+	+	+	
1752	-3	38	8165	+	-	-	+	+	-		+	+	+	5/5	-3	39	8384	+	-	-	+	+	-		+	+	+	5/5
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
	-4	4	8326	+	-	-	+	+	-		+	+	+	4/4	-4	1	8265	+	-	-	+	+	-		+	+	+	1/1
				+	-	-	+	+	-		+	+	+															
				+	-	-	+	+	-		+	+	+															
				+	-	-	+	+	-		+	+	+															

MICROVAL® NEN

Sample N°	Alternative method : CampyFood Agar (CFA)																								
	PSD													CFB											
	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic conditions 41,5°C	Oxidase test	Microscopic observation		Confirmed/ Tested	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C (streaking)		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic condition 41,5°C	Oxidase test	Microscopic observation		Confirmed/tested
					24H	72H	24H	72H	40-48H	40-48H		24H	72H														
3116	-1	4	9727	+	-	-	+	+	-		+	+	+	4/4	-1	4	10088	+	-	-	+	+	-		+	+	+	4/4
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
	-2	0	/											/	-2	0	/										/
3117	-2	6	890	+	-	-	+	+	-		+	+	+	5/5	-2	6	573	+	-	-	+	+	-		+	+	+	5/5
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
	-3	0	/											/	-3	1	9750	+	-	-	+	+	-		+	+	+	1/1
3118	-3	51	8653	+	-	-	+	+	-		+	+	+	5/5	-3	78	9893	+	-	-	+	+	-		+	+	+	5/5
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
	-4	6	9528	+	-	-	+	+	-		+	+	+	5/5	-4	11	9702	+	-	-	+	+	-		+	+	+	5/5
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
3121	-1	31	8785	+	-	-	+	+	-		+	+	+	5/5	-1	30	8498	+	-	-	+	+	-		+	+	+	5/5
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
	-2	3	10171	+	-	-	+	+	-		+	+	+	3/3	-2	2	9756	+	-	-	+	+	-		+	+	+	2/2
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+														

MICROVAL® NEN

Sample N°	Alternative method : CampyFood Agar (CFA)																										
	PSD													CFB													
	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic conditions 41,5°C	Oxidase test	Microscopic observation		Confirmed/ Tested	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C (streaking)		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic condition 41,5°C	Oxidase test	Microscopic observation		Confirmed/tested
					24H	72H	24H	72H	40-48H	40-48H		24H	72H						24H	72H	24H	72H	40-48H	40-48H		24H	72H	
1068-1	-2	38	11234	/	-	-	+	+	-	-	+	+	+	3/5	-2	63	11900	/	+	+	+	+	+	+	-			4/5
				/	-	-	+	+	-	-	+	+	+					/	-	-	+	+	-	-	+	+	+		
				/	+	+	+	+										/	-	-	+	+	-	-	+	+	+		
				/	-	-	+	+	-	-	+	+	+					/	-	-	+	+	-	-	+	+	+		
				/	+	+	+	+	-	-	+	+	+					/	-	-	+	+	-	-	+	+	+		
	-3	4	10930	/	-	-	+	+	-	-	+	+	+	3/4	-3	4	11865	/	-	-	+	+	-	-	+	+	+		4/4
				/	-	-	+	+	-	-	+	+	+					/	-	-	+	+	-	-	+	+	+		
				/	+	+	+	+										/	-	-	+	+	-	-	+	+	+		
				/	-	-	+	+	-	-	+	+	+					/	-	-	+	+	-	-	+	+	+		
				/														/											
1068-2	-2	33	11848	/	-	-	+	+	-	-	+	+	+	4/5	-2	38	11662	/	-	-	+	+	-	-	+	+	+		5/5
				/	-	-	+	+	-	-	+	+	+					/	-	-	+	+	-	-	+	+	+		
				/	-	-	+	+	-	-	+	+	+					/	-	-	+	+	-	-	+	+	+		
				/	+	+	+	+										/	-	-	+	+	-	-	+	+	+		
				/	-	-	+	+	-	-	+	+	+					/	-	-	+	+	-	-	+	+	+		
	-3	3	11794	/	-	-	+	+	-	-	+	+	+	3/3	-3	2	11510	/	-	+	+	+	+	+	-			1/2
				/	-	-	+	+	-	-	+	+	+					/	-	-	+	+	-	-	+	+	+		
				/														/											
				/														/											
1084-1	-2	38	10866	/	-	-	+	+	-	-	+	+	+	5/5	-2	48	11337	/	-	-	+	+	-	-	+	+	+		5/5
				/	-	-	+	+	-	-	+	+	+					/	-	-	+	+	-	-	+	+	+		
				/	-	-	+	+	-	-	+	+	+					/	-	-	+	+	-	-	+	+	+		
				/	-	-	+	+	-	-	+	+	+					/	-	-	+	+	-	-	+	+	+		
				/	-	-	+	+	-	-	+	+	+					/	-	-	+	+	-	-	+	+	+		
	-3	5	11910	/	-	-	+	+	-	-	+	+	+	5/5	-3	6	11818	/	-	-	+	+	-	-	+	+	+		5/5
				/	-	-	+	+	-	-	+	+	+					/	-	-	+	+	-	-	+	+	+		
				/	-	-	+	+	-	-	+	+	+					/	-	-	+	+	-	-	+	+	+		
				/	-	-	+	+	-	-	+	+	+					/	-	-	+	+	-	-	+	+	+		
				/	-	-	+	+	-	-	+	+	+					/	-	-	+	+	-	-	+	+	+		
1084-2	-2	51	11893	/	-	-	+	+	-	-	+	+	+	5/5	-2	52	11070	/	-	-	+	+	-	-	+	+	+		5/5
				/	-	-	+	+	-	-	+	+	+					/	-	-	+	+	-	-	+	+	+		
				/	-	-	+	+	-	-	+	+	+					/	-	-	+	+	-	-	+	+	+		
				/	-	-	+	+	-	-	+	+	+					/	-	-	+	+	-	-	+	+	+		
				/	-	-	+	+	-	-	+	+	+					/	-	-	+	+	-	-	+	+	+		
	-3	10	11417	/	-	-	+	+	-	-	+	+	+	5/5	-3	5	10509	/	-	-	+	+	-	-	+	+	+		5/5
				/	-	-	+	+	-	-	+	+	+					/	-	-	+	+	-	-	+	+	+		
				/	-	-	+	+	-	-	+	+	+					/	-	-	+	+	-	-	+	+	+		
				/	-	-	+	+	-	-	+	+	+					/	-	-	+	+	-	-	+	+	+		
				/	-	-	+	+	-	-	+	+	+					/	-	-	+	+	-	-	+	+	+		

MICROVAL® NEN

Sample N°	Alternative method : CampyFood Agar (CFA)																									
	PSD													CFB												
	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic conditions 41,5°C	Oxidase test	Microscopic observation		Confirmed/ Tested	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C (streaking)		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic condition 41,5°C	Oxidase test	Microscopic observation		Confirmed/tested
					24H	72H	24H	72H	40-48H	40-48H		24H	72H						24H	72H	24H	72H	40-48H	40-48H		24H	72H	
1407-1	-1	31	9687	/	-	-	+	+	-	-	+	+	+	5/5	-1	16	9144	/	-	-	+	+	-	-	+	+	+	5/5
				/	-	-	+	+	-	-	+	+	+					/	-	-	+	+	-	-	+	+	+	
				/	-	-	+	+	-	-	+	+	+					/	-	-	+	+	-	-	+	+	+	
				/	-	-	+	+	-	-	+	+	+					/	-	-	+	+	-	-	+	+	+	
				/	-	-	+	+	-	-	+	+	+					/	-	-	+	+	-	-	+	+	+	
	-2	1	8036	/	-	-	+	+	-	-	+	+	+	1/1	-2	3	11052	/	-	-	+	+	-	-	+	+	+	3/3
				/														/	-	-	+	+	-	-	+	+	+	
				/														/	-	-	+	+	-	-	+	+	+	
				/														/										
				/														/										
1407-2	-1	26	9417	/	-	-	+	+	-	-	+	+	+	5/5	-1	29	10506	/	-	-	+	+	-	-	+	+	+	5/5
				/	-	-	+	+	-	-	+	+	+					/	-	-	+	+	-	-	+	+	+	
				/	-	-	+	+	-	-	+	+	+					/	-	-	+	+	-	-	+	+	+	
				/	-	-	+	+	-	-	+	+	+					/	-	-	+	+	-	-	+	+	+	
				/	-	-	+	+	-	-	+	+	+					/	-	-	+	+	-	-	+	+	+	
	-2	5	9532	/	-	-	+	+	-	-	+	+	+	5/5	-2	3	11858	/	-	-	+	+	-	-	+	+	+	3/3
				/	-	-	+	+	-	-	+	+	+					/	-	-	+	+	-	-	+	+	+	
				/	-	-	+	+	-	-	+	+	+					/	-	-	+	+	-	-	+	+	+	
				/	-	-	+	+	-	-	+	+	+					/										
				/	-	-	+	+	-	-	+	+	+					/										
4720	-2	16	9364	+	-	-	+	+	-		+	+	+	5/5	-2	12	9339	+	-	-	+	+	-		+	+	+	5/5
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
	-3	5	9945	+	-	-	+	+	-		+	+	+	5/5	-3	3	10256	+	-	-	+	+	-		+	+	+	3/3
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+															
				+	-	-	+	+	-		+	+	+															

Sample N°	Alternative method : CampyFood Agar (CFA)																								
	PSD													CFB											
	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic conditions 41,5°C	Oxidase test	Microscopic observation		Confirmed/ Tested	Dilution	Enumerated colonies	VIDAS CAM	Latex test	Growth in aerobic conditions 41,5°C (streaking)		Growth in microaerobic conditions 41,5°C		Growth in microaerobic conditions 25°C (aerobic condition for renewal study)	Growth in aerobic condition 41,5°C	Oxidase test	Microscopic observation		Confirmed/tested
					24H	72H	24H	72H	40-48H	40-48H		24H	72H						24H	72H	24H	72H	40-48H	40-48H		24H	72H	
4721	-3	99	8756	+	-	-	+	+	-		+	+	+	5/5	-3	71	8763	+	-	-	+	+	-		+	+	+	5/5
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
	-4	10	9307	+	-	-	+	+	-		+	+	+	5/5	-4	8	8779	+	-	-	+	+	-		+	+	+	5/5
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	
				+	-	-	+	+	-		+	+	+					+	-	-	+	+	-		+	+	+	

Annex 4- Inclusivity and exclusivity: raw data

Strains tested for the renewal study

INCLUSIVITY										
N°	Strain		Reference	Origin	CBA	mCCDA	CFA		VIDAS CAM	Latex
					cfu/plate(a/b)	cfu/plate(a/b)	cfu/plate(a/b)	Colonies description		
1	*Campylobacter*	*coli*	Ad1001	Poultry	102/136	123/133	132/187	Red-orange with metallic sheen (diameter 1,5mm)	11860(+)	/
2	*Campylobacter*	*coli*	Ad1004	Poultry	52/62	47/43	48/43	Red-orange with metallic sheen (diameter 2-6mm)	10669(+)	/
3	*Campylobacter*	*coli*	Ad1005	Poultry	8/7	7/1	2/7	Red-orange with metallic sheen (spreaded colonies)	10351(+)	/
4	*Campylobacter*	*coli*	Ad1006	Poultry	36/38	37/38	30/39	Red-orange with metallic sheen (diameter 3mm)	11609(+)	/
5	*Campylobacter*	*coli*	Ad1007	Poultry	62/84	77/76	123/86	Red-orange with metallic sheen (diameter 2mm)	4309(+)	/
6	*Campylobacter*	*coli*	Ad1008	Poultry	96/88	82/73	65/66	Red-orange with metallic sheen (spreaded colonies)	10323(+)	/
7	*Campylobacter*	*coli*	Ad1009	Poultry	26/33	7/10	35/37	Red-orange with metallic sheen (diameter 2-6mm)	10585(+)	/
8	*Campylobacter*	*coli*	Ad1010	Poultry	104/80	46/75	71/103	Red-orange with metallic sheen (diameter 1,5mm)	11715(+)	/
9	*Campylobacter*	*coli*	Ad1011	Poultry	70/38	9/17	60/54	Red-orange with metallic sheen (diameter 2-5mm)	10506(+)	/
10	*Campylobacter*	*coli*	Ad1012	Poultry	32/29	19/19	29/39	Red-orange with metallic sheen (diameter 1mm)	10390(+)	/
11	*Campylobacter*	*coli*	Ad1024	Poultry	62/90	73/81	77/92	Red-orange with metallic sheen(diameter 5mm)	4036(+)	/

INCLUSIVITY										
N°	Strain		Reference	Origin	CBA	mCCDA	CFA		VIDAS CAM	Latex
					cfu/plate(a/b)	cfu/plate(a/b)	cfu/plate(a/b)	Colonies description		
12	*Campylobacter*	*coli*	Ad1025	Poultry	30/23	16/11	31/36	Red-orange with metallic sheen(diameter 2mm)	11626(+)	/
13	Campylobacter	*coli*	Ad1018	Poultry	14	33	37	Red-orange with metallic sheen (diameter 2mm)	9009 (+)	+
14	Campylobacter	*coli*	Ad1019	Poultry	159	85	179	Red-orange with metallic sheen (diameter 2mm)	9368(+)	+
15	Campylobacter	*coli*	Ad1982	River water	74	52	65	Red-orange with metallic sheen (diameter 2mm)	90302(+)	+
16	Campylobacter	*coli*	Ad1125	Poultry	52	77	78	Red-orange with metallic sheen (diameter 2mm)	9338(+)	+
17	Campylobacter	*coli*	Ad1485	Feces	46	41	35	Red-orange with metallic sheen (diameter 2mm)	1504(+)	+
18	*Campylobacter*	*coli*	CIP 70.80^{T} (ATCC33559)	Porcine feces	19/21	12/15	20/23	Red with metallic sheen (diameter 2mm)	651(+)	/
19	*Campylobacter*	*coli*	Ad1121	Porcine feces	80/75	64/52	84/79	Red with metallic sheen (diameter 0,5-1mm)	11501(+)	/
20	*Campylobacter*	*coli*	Ad1122	Porcine feces	62/70	31/48	58/25	burgundy with metallic sheen (diameter <0,5mm)	7530(+)	/
21	*Campylobacter*	*coli*	Ad1123	Porcine meat	41/39	22/16	31/38	Red-orange with metallic sheen (diameter 1mm)	10947(+)	/
22	*Campylobacter*	*jejuni*	Ad1000	Poultry	66/66	51/70	94/67	Red-orange with metallic sheen (diameter 2-3mm)	10837(+)	/
23	*Campylobacter*	*jejuni*	Ad1002	Poultry	26/10	15/15	12/22	Red with metallic sheen (diameter 2mm)	10745(+)	/
24	*Campylobacter*	*jejuni*	Ad1003	Poultry	18/39	35/23	47/38	Red-orange with metallic sheen (diameter 2-3mm)	11165(+)	/
25	*Campylobacter*	*jejuni*	Ad1013	Poultry	83/89	69/101	68/97	Red-orange with metallic sheen (diameter 2mm)	6744(+)	/

INCLUSIVITY										
N°	Strain		Reference	Origin	CBA	mCCDA	CFA		VIDAS CAM	Latex
					cfu/plate(a/b)	cfu/plate(a/b)	cfu/plate(a/b)	Colonies description		
26	*Campylobacter*	*jejuni*	Ad1014	Poultry	76/83	65/58	72/62	Red-orange with metallic sheen (diameter 2mm)	4696(+)	/
27	*Campylobacter*	*jejuni*	Ad1015	Poultry	36/52	38/27	40/57	Red-orange with metallic sheen (diameter 2-3mm)	11984(+)	/
28	*Campylobacter*	*jejuni*	Ad1016	Poultry	56/81	66/69	67/85	Red-orange with metallic sheen (diameter 2mm)	2989(+)	/
29	*Campylobacter*	*jejuni*	Ad1021	Poultry	29/30	27/40	31/41	burgundy with metallic sheen (diameter 1-2mm)	1265(+)	/
30	*Campylobacter*	*jejuni*	Ad1023	Poultry	105/133	62/68	101/71	Red-orange with metallic sheen (diameter 1-3mm)	11033(+)	/
31	*Campylobacter*	*jejuni*	Ad1076	Poultry	23/29	33/21	39/30	Red-orange with metallic sheen (diameter 2-3mm)	11789(+)	/
32	*Campylobacter*	*jejuni*	Ad1078	Poultry	38/36	34/39	24/40	Red-orange with metallic sheen (diameter 2-4mm)	10669(+)	/
33	*Campylobacter*	*jejuni*	Ad1079	Poultry	91/33	81/40	63/77	Red-orange with metallic sheen (diameter 5mm)	10553(+)	/
34	*Campylobacter*	*jejuni*	Ad1080	Poultry	6/6	3/7	7/6	Red-orange with metallic sheen (diameter 3-4mm)	8052(+)	/
35	*Campylobacter*	*jejuni*	Ad1081	Poultry	144/128	110/115	155/184	Red-orange with metallic sheen (diameter 1mm)	11556(+)	/
36	*Campylobacter*	*jejuni*	Ad1082	Poultry	13/10	9/17	12/27	Blood red with metallic sheen (diameter 1mm)	5994(+)	/
37	*Campylobacter*	*jejuni*	CIP 70.2^{T} (ATCC33560)	Bovine feces	98/128	79/122	120/122	Red with metallic sheen (diameter 1-2mm)	11294(+)	/
38	Campylobacter	*jejuni*	Ad1083	Poultry	44	29	113	Red-orange with metallic sheen (diameter 2mm)	9399 (+)	+
39	Campylobacter	*jejuni*	Ad1084	Poultry	28	43	24	Red-orange with metallic sheen (diameter 2mm)	8616 (+)	+

INCLUSIVITY										
N°	**Strain**		**Reference**	**Origin**	**CBA**	**mCCDA**	**CFA**		**VIDAS CAM**	**Latex**
					cfu/plate(a/b)	cfu/plate(a/b)	cfu/plate(a/b)	Colonies description		
40	Campylobacter	*jejuni*	Ad1085	Poultry	73	63	60	Red-orange with metallic sheen (diameter 2mm)	8286 (+)	+
41	*Campylobacter*	*lari*	Ad1067	Poultry	20/24	21/16	19/26	Red-orange with metallic sheen (diameter 3-5mm)	1712(+)	/
42	*Campylobacter*	*lari*	CIP 102722 ^{T} (ATCC35221)	Gull cloacal swab	144/149	178/131	194/158	Red with metallic sheen (diameter 2mm)	226(-)/227(-)/ 248(-)	/
43	*Campylobacter*	*lari*	ATCC35222	unknown	34/39	46/44	64/42	Red-orange with metallic sheen (diameter 2-3mm)	633(+)	/
44	*Campylobacter*	*lari*	Ad1130	unknown	27/28	60/61	31/46	Red-orange with metallic sheen (diameter 2-3mm)	634(+)	/
45	*Campylobacter*	*lari*	Ad1131	Cail	33/29	47/59	21/19	Red with metallic sheen (diameter 2-3mm)	8311(+)	/
46	Campylobacter	*lari*	Ad1911	unknown	168	151	117	Red-orange with metallic sheen (diameter 2mm)	297 (+)	+
47	*Campylobacter*	*upsaliensis*	ATCC49815	unknown	45/44	0/0	0/0	/	/	/
48	*Campylobacter*	*upsaliensis*	CIP 10368^{T}(ATCC 43954)	Dog feces	81/65	0/0	0/0	/	/	/
49	*Campylobacter*	*upsaliensis*	ATCC49816	Feces	54/33	0/0	0/0	/	/	/
50	*Campylobacter*	*upsaliensis*	Ad1139	Feces	47/65	0/0	0/0	/	/	/

EXCLUSIVITY										
N°	Strain		Reference	Origin	Control media	mCCDA	CFA			
					cfu/plate(a/b)	cfu/plate(a/b)	cfu/plate(a/b)	Colonies description	VIDAS CAM	Latex
1	*Acinetobacter*	*baumanii*	Ad 1070	Poultry	11/15	15/15 (non characteristic colonies)	0/0	/	/	/
2	*Arcobacter*	*butzleri*	Ad1881	Swab feather	71 (-7)	0 (-5)	32 (-7)	Pink micro-colonies	159 (-)	-
3	*Arcobacter*	*butzleri*	Ad1126	Chicken	87/79(COS37°c)	0/0	66/70	Red-orange with metallic sheen (diameter 0,5-2mm)	200(-)	/
4	*Arcobacter*	*butzleri*	CIP 103493	unknown	110/1109(COS 37°C)	0/0	0/0	/	/	/
5	*Acinetobacter*	*calcoaceticus*	Ad 1090	Poultry	70/78	0/0	0/0	/	/	/
5	*Acinetobacter*	*johnsonii*	Ad1317	Egg	60 (-6)	0 (-5)	0 (-5)	/	/	/
6	*Aeromonas*	*hydrophila*	CIP 5750	unknown	34/39	0/0	0/0	/	/	/
7	*Arcobacter*	*cryaerophilus*	CIP 104014	unknown	54/71(COS 30°C)	0/0	0/0	/	/	/
8	*Arcobacter*	*cryoaerophilus*	Ad1124	Chicken	A lot of micro-colonies, impossible to numerate (COS 37°c)	0/0	0/0	0/0	/	/
9	*Arcobacter*	*halophilus*	CIP 108450	unknown	Grow in 10 days at 25°C	Doesn't grow at 41,5°C		/	/	/
10	*Campylobacter*	*fetus*	Ad1069	Poultry	275/240 (COS 25°C)	0/0	0/0	/	/	/
11	*Campylobacter*	*fetus*	Ad1068	Poultry	229/204(COS 25°C)	0/0	0/0	/	/	/
12	*Citrobacter*	*freundii*	Ad 173	Poultry	50/43	0/0	0/0	/	/	/
13	*Enterobacter*	*fergusoni*	2876	Environment	37/40	0/0	0/0	/	/	/
14	*Escherichia*	*coli*	Ad 241	Poultry	52/68	0/0	0/0	/	/	/
15	*Escherichia*	*coli ESBL*	CIP103982	unknown	80/75	0/0	0/0	/	/	/
16	*Entrococcus*	*durans*	Ad148	Ham	52/28	0/0	0/0	/	/	/
17	*Entrococcus*	*durans*	Ad175	Egg product	27/34	0/0	0/0	/	/	/
18	*Klebsellia*	*pneumoniae*	133	Beef	3/13	0/0	0/0	/	/	/
20	*Lactobacillus*	*curvatus*	Ad 379	Pork meat	2/7	0/0	0/0	/	/	/
21	*Macrococcus*	*cohnii*	Ad 156	Poultry	18/18	0/0	0/0	/	/	/
22	*Moraxella*	*spp*	51.11	Poultry	69/73(COS 25°C)	0/0	0/0	/	/	/

EXCLUSIVITY										
N°	Strain		Reference	Origin	Control media	mCCDA	CFA			
					cfu/plate(a/b)	cfu/plate(a/b)	cfu/plate(a/b)	Colonies description	VIDAS CAM	Latex
23	*Ochrobactrum*	*pseudintermedius*	Ad 1058	Poultry	61/76	144/2 (micro-colonies)	0/0	/	/	/
24	*Proteus*	*vulgaris*	Ad 984	Meat product (pork/beef mix)	55/48	0/0	0/0	/	/	/
25	*Providencia*	*stuartii*	46	Food product	44/43	0/0	0/0	/	/	/
26	*Pseudomonas*	*aeruginosa*	20	Raw milk	51/47	0/0	0/0	/	/	/
27	*Pseudomonas*	*putida*	4	Poultry	37/42 (COS25°c)	0/0	0/0	/	/	/
28	*Ralstonia*	*mannitolityca*	Ad 1059	Poultry	248/171	124/109	124/145	Blood red (diameter 2 mm)	324(-)	/
29	*Saccharomyces*	*cerevisiae*	Ad 999	Dairy product	54/56 (OGA 25°c)	0/0	0/0	/	/	/
30	*Staphylococcus*	*aureus*	Ad 157	Poultry skin	55/41	0/0	0/0	/	/	/

Annex 5 – *Campylobacter* Latex test extension study results (NF Validation 2014)

INCLUSIVITY												
N°	Strain		Reference	Origin	Columbia blood agar (CBA) CAMPYLOBACTER spp latex kit			CampyFood agar 41,5°C				
								Growth *	CAMPYLOBACTER spp latex kit			
					Latex	Latex control	Result		Latex	Latex control	Result	
1	*Campylobacter*	*coli*	Ad1004	Turkey skin	+	-	+	+	+	-	+	
2	*Campylobacter*	*coli*	Ad1005	Turkey skin	+	-	+	+	+	-	+	
3	*Campylobacter*	*coli*	Ad1007	Chicken skin	+	-	+	+	+	-	+	
4	*Campylobacter*	*coli*	Ad1008	Turkey skin	+	-	+	+	+	-	+	
5	*Campylobacter*	*coli*	Ad1009	Chicken skin	+	-	+	+	+	-	+	
6	*Campylobacter*	*coli*	Ad1010	Chicken skin	+	-	+	+	+	-	+	
7	*Campylobacter*	*coli*	Ad1011	Turkey skin	+	-	+	+	+	-	+	
8	*Campylobacter*	*coli*	Ad1012	Chicken skin	+	-	+	+	+ (1)	- (1)	+	
9	*Campylobacter*	*coli*	Ad1018	Chicken leg	+	-	+	+	+	-	+	
10	*Campylobacter*	*coli*	Ad1024	Chicken skin	+	-	+	+	+ (1)	- (1)	+	
11	*Campylobacter*	*coli*	Ad1025	Turkey neck skin	+	-	+	+	+	-	+	
12	*Campylobacter*	*coli*	Ad1072	Turkey neck skin	+	-	+	+	+	-	+	
13	*Campylobacter*	*coli*	Ad1073	Turkey neck skin	+	-	+	+	+	-	+	
14	*Campylobacter*	*coli*	Ad1074	Turkey neck skin	+	-	+	+	+	-	+	
15	*Campylobacter*	*coli*	Ad1075	Turkey neck skin	+	-	+	+	+	-	+	
16	*Campylobacter*	*coli*	Ad1077	Turkey neck skin	+	-	+	+	+	-	+	
17	*Campylobacter*	*coli*	Ad1087	Chicken neck skin	+	-	+	+	+	-	+	

INCLUSIVITY											
N°	Strain		Reference	Origin	Columbia blood agar (CBA) CAMPYLOBACTER spp latex kit			CampyFood agar 41,5°C			
								Growth *	CAMPYLOBACTER spp latex kit		
					Latex	Latex control	Result		Latex	Latex control	Result
18	*Campylobacter*	*coli*	Ad1121	Feces	+	-	+	+	+ (1)	- (1)	+
19	*Campylobacter*	*coli*	Ad1122	Feces	+	-	+	+	+ (1)	- (1)	+
20	*Campylobacter*	*coli*	Ad1123	Bavette	+	-	+	+	+	-	+
21	*Campylobacter*	*coli*	Ad1125	Chicken	+	-	+	+	+ (1)	-	+
22	*Campylobacter*	*coli*	Ad1477	Carcasse	+	-	+	+	+	-	+
23	*Campylobacter*	*coli*	Ad1478	Carcasse	+	-	+	+	+	-	+
24	*Campylobacter*	*coli*	Ad1479	Carcasse	+	-	+	+	+	-	+
25	*Campylobacter*	*coli*	Ad1480	Carcasse	+	-	+	+	+	-	+
26	*Campylobacter*	*coli*	Ad1481	Carcasse	+	-	+	+	+ (1)	- (1)	+
27	*Campylobacter*	*coli*	Ad1485	Feces	+	-	+	+	+ (1)	- (1)	+
28	*Campylobacter*	*coli*	Ad1889	Swine environment	+	-	+	+	+	-	+
29	*Campylobacter*	*coli*	CIP70.77	Feces	+	-	+	+	+	-	+
30	*Campylobacter*	*coli*	CIP70.80	Feces	+	-	+	+	+	-	+
31	*Campylobacter*	*coli*	Ad1893	Floor waste guinea fowl (workshop)	+	-	+	+	+ (1)	- (1)	+
32	*Campylobacter*	*coli*	Ad1894	Pork feces	+	-	+	+	+	-	+
33	*Campylobacter*	*coli*	Ad1895	Pork feces	+	-	+	+	+	-	+
34	*Campylobacter*	*coli*	Ad1897	Pork feces	+	-	+	+	+	-	+
35	*Campylobacter*	*coli*	Ad1899	Pork feces	+	-	+	+	+	-	+

INCLUSIVITY												
N°	Strain		Reference	Origin	Columbia blood agar (CBA) CAMPYLOBACTER spp latex kit			CampyFood agar 41,5°C				
								Growth *	CAMPYLOBACTER spp latex kit			
					Latex	Latex control	Result		Latex	Latex control	Result	
36	*Campylobacter*	*coli*	Ad1900	Pork feces	+	-	+	+	+ (1)	-	+	
37	*Campylobacter*	*coli*	Ad1901	White chicken leg	+	-	+	+	+ (1)	- (1)	+	
38	*Campylobacter*	*coli*	Ad1902	White chicken meat	+	-	+	+	+	-	+	
39	*Campylobacter*	*coli*	Ad1905	Duck leg	+	-	+	+	+	-	+	
40	*Campylobacter*	*coli*	Ad1907	Duck leg	+	-	+	+	+	-	+	
41	*Campylobacter*	*coli*	Ad1908	Duck meat	+	-	+	+	+ (1)	- (1)	+	
42	*Campylobacter*	*coli*	Ad1909	Chicken leg	+	-	+	+	+	-	+	
43	*Campylobacter*	*coli*	Ad1924	Regular chicken	+	-	+	+	+	-	+	
44	*Campylobacter*	*coli*	Ad1925	Regular chicken	+	-	+	+	+	-	+	
45	*Campylobacter*	*coli*	Ad1926	Regular chicken	+	-	+	+	+	-	+	
46	*Campylobacter*	*coli*	Ad1927	Regular chicken	+	-	+	+	+	-	+	
47	*Campylobacter*	*coli*	Ad1928	Regular chicken	+	-	+	+	+	-	+	
48	*Campylobacter*	*coli*	Ad1929	Regular chicken	- / +	- / -	**- / +**	+	+ (3)	-	+	
49	*Campylobacter*	*coli*	Ad1930	Regular chicken	+	-	+	+	+	-	+	
50	*Campylobacter*	*coli*	Ad1938	Free-range chicken	+	-	+	+	+	-	+	
51	*Campylobacter*	*coli*	Ad1939	Free-range chicken	+	-	+	+	+	-	+	
52	*Campylobacter*	*coli*	Ad1940	Free-range chicken	+	-	+	+	+	-	+	
53	*Campylobacter*	*coli*	Ad1941	Free-range chicken	+	-	+	+	+	-	+	
54	*Campylobacter*	*coli*	Ad1942	Free-range chicken	+	-	+	+	+	-	+	

INCLUSIVITY												
N°	Strain		Reference	Origin	Columbia blood agar (CBA) CAMPYLOBACTER spp latex kit			CampyFood agar 41,5°C				
								Growth *	CAMPYLOBACTER spp latex kit			
					Latex	Latex control	Result		Latex	Latex control	Result	
55	*Campylobacter*	*coli*	Ad1943	Free-range chicken	+	-	+	+	+	-	+	
56	*Campylobacter*	*coli*	Ad1944	Free-range chicken	+	-	+	+	+	-	+	
57	*Campylobacter*	*coli*	Ad1952	Turkey	+	-	+	+	+	-	+	
58	*Campylobacter*	*coli*	Ad1953	Turkey	+ (2)	-	+	+	+ (2)	-	+	
59	*Campylobacter*	*coli*	Ad1954	Turkey	+	-	+	+	+	-	+	
60	*Campylobacter*	*coli*	Ad1955	Turkey	+	-	+	+	+	-	+	
61	*Campylobacter*	*coli*	Ad1956	Turkey	+	-	+	+	+	-	+	
62	*Campylobacter*	*coli*	Ad1957	Turkey	+	-	+	+	+	-	+	
63	*Campylobacter*	*coli*	Ad1958	Turkey	+	-	+	+	+	-	+	
64	*Campylobacter*	*coli*	Ad1959	Pork (sow)	+	-	+	+	+	-	+	
65	*Campylobacter*	*coli*	Ad1960	Pork (sow)	+	-	+	+	+	-	+	
66	*Campylobacter*	*coli*	Ad1961	Pork (sow)	+	-	+	+	+	-	+	
67	*Campylobacter*	*coli*	Ad1962	Pork (sow)	+	-	+	+	+	-	+	
68	*Campylobacter*	*coli*	Ad1963	Pork (sow)	+	-	+	+	+ (1)	-	+	
69	*Campylobacter*	*coli*	Ad1964	Pork (sow)	+	-	+	+	+ (1)	-	+	
70	*Campylobacter*	*coli*	Ad1965	Pork (sow)	+	-	+	+	+	-	+	
71	*Campylobacter*	*coli*	Ad1966	Pork	+	-	+	+	+	-	+	
72	*Campylobacter*	*coli*	Ad1967	Pork	+	-	+	+	+ (1)	-	+	
73	*Campylobacter*	*coli*	Ad1968	Pork	+	-	+	+	+	-	+	

INCLUSIVITY												
N°	Strain		Reference	Origin	Columbia blood agar (CBA) CAMPYLOBACTER spp latex kit			CampyFood agar 41,5°C				
								Growth *	CAMPYLOBACTER spp latex kit			
					Latex	Latex control	Result		Latex	Latex control	Result	
74	*Campylobacter*	*coli*	Ad1969	Pork	+	-	+	+	+	-	+	
75	*Campylobacter*	*coli*	Ad1970	Pork	+	-	+	+	+ (1)	-	+	
76	*Campylobacter*	*coli*	Ad1971	Pork	+	-	+	+	+	-	+	
77	*Campylobacter*	*coli*	Ad1972	Pork	+	-	+	+	+	-	+	
78	*Campylobacter*	*coli*	Ad1980	River water	+	-	+	+	+	-	+	
79	*Campylobacter*	*coli*	Ad1981	River water	+	-	+	+	+	-	+	
80	*Campylobacter*	*coli*	Ad1982	River water	+	-	+	+	+	-	+	
81	*Campylobacter*	*coli*	Ad1983	River water	+	-	+	+	+	-	+	
82	*Campylobacter*	*coli*	Ad1984	River water	+	-	+	+	+	-	+	
83	*Campylobacter*	*coli*	Ad1985	River water	+	-	+	+	+	-	+	
84	*Campylobacter*	*coli*	Ad1986	River water	+	-	+	+	+	-	+	
85	*Campylobacter*	*coli*	Ad1997	Pork bleeding area (wipe)	- / + (2)	- / -	**- / +**	+	- / + (2)	-	**- / +**	
86	*Campylobacter*	*jejuni*	Ad1000	Turkey neck skin	+	-	+	+	+ (1)	- (1)	+	
87	*Campylobacter*	*jejuni*	Ad1002	Turkey neck skin	+	-	+	+	+	-	+	
88	*Campylobacter*	*jejuni*	Ad1003	Turkey neck skin	+	-	+	+	+ (1)	-	+	
89	*Campylobacter*	*jejuni*	Ad1013	Chicken skin	+	-	+	+	+	-	+	
90	*Campylobacter*	*jejuni*	Ad1014	Chicken neck skin	+	-	+	+	+	-	+	
91	*Campylobacter*	*jejuni*	Ad1015	Chicken skin	+	-	+	+	+	-	+	
92	*Campylobacter*	*jejuni*	Ad1016	Chicken skin	+	-	+	+	+	-	+	

INCLUSIVITY												
N°	Strain		Reference	Origin	Columbia blood agar (CBA) CAMPYLOBACTER spp latex kit			CampyFood agar 41,5°C				
								Growth *	CAMPYLOBACTER spp latex kit			
					Latex	Latex control	Result		Latex	Latex control	Result	
93	*Campylobacter*	*jejuni*	Ad1021	Chicken neck skin	+	-	+	+	+	-	+	
94	*Campylobacter*	*jejuni*	Ad1023	Turkey neck skin	+	-	+	+	+	-	+	
95	*Campylobacter*	*jejuni*	Ad1076	Turkey neck skin	+	-	+	+	+	-	+	
96	*Campylobacter*	*jejuni*	Ad1078	Turkey neck skin	+	-	+	+	+	-	+	
97	*Campylobacter*	*jejuni*	Ad1079	Turkey neck skin	+	-	+	+	+	-	+	
98	*Campylobacter*	*jejuni*	Ad1080	Turkey neck skin	+	-	+	+	+	-	+	
99	*Campylobacter*	*jejuni*	Ad1081	Turkey neck skin	+	-	+	+	+	-	+	
100	*Campylobacter*	*jejuni*	Ad1082	Turkey neck skin	+	-	+	+	+	-	+	
101	*Campylobacter*	*jejuni*	Ad1083	Turkey neck skin	+	-	+	+	+	-	+	
102	*Campylobacter*	*jejuni*	Ad1084	Chicken neck skin	+	-	+	+	+	-	+	
103	*Campylobacter*	*jejuni*	Ad1085	Chicken neck skin	+	-	+	+	+	-	+	
104	*Campylobacter*	*jejuni*	Ad1086	Chicken neck skin	+	-	+	+	+	-	+	
105	*Campylobacter*	*jejuni*	Ad1088	Chicken neck skin	+	-	+	+	+	-	+	
106	*Campylobacter*	*jejuni*	Ad1089	Chicken neck skin	+	-	+	+	+	-	+	
107	*Campylobacter*	*jejuni*	CIP70.54	Feces	+	-	+	+	+	-	+	
108	*Campylobacter*	*jejuni*	Ad1892	Guinea fowl carcass	+	-	+	+	+	-	+	
109	*Campylobacter*	*jejuni*	Ad1910	Chicken meat (no skin)	+	-	+	+	+	-	+	
110	*Campylobacter*	*jejuni*	Ad1917	Regular chicken	+	-	+	+	+ (1)	- (1)	+	
111	*Campylobacter*	*jejuni*	Ad1918	Regular chicken	+	-	+	+	+	-	+	

INCLUSIVITY												
N°	Strain		Reference	Origin	Columbia blood agar (CBA) CAMPYLOBACTER spp latex kit			CampyFood agar 41,5°C				
								Growth *	CAMPYLOBACTER spp latex kit			
					Latex	Latex control	Result		Latex	Latex control	Result	
112	*Campylobacter*	*jejuni*	Ad1919	Regular chicken	+	-	+	+	+	-	+	
113	*Campylobacter*	*jejuni*	Ad1920	Regular chicken	+	-	+	+	+	-	+	
114	*Campylobacter*	*jejuni*	Ad1921	Regular chicken	+	-	+	+	+ (2)	-	+	
115	*Campylobacter*	*jejuni*	Ad1922	Regular chicken	+	-	+	+	+ (1)	- (1)	+	
116	*Campylobacter*	*jejuni*	Ad1923	Regular chicken	+	-	+	+	+	-	+	
117	*Campylobacter*	*jejuni*	Ad1932	Free-range chicken	+	-	+	+	+	-	+	
118	*Campylobacter*	*jejuni*	Ad1933	Free-range chicken	+	-	+	+	+	-	+	
119	*Campylobacter*	*jejuni*	Ad1934	Free-range chicken	+	-	+	+	+	-	+	
120	*Campylobacter*	*jejuni*	Ad1935	Free-range chicken	+	-	+	+	+	-	+	
121	*Campylobacter*	*jejuni*	Ad1936	Free-range chicken	+	-	+	+	+	-	+	
122	*Campylobacter*	*jejuni*	Ad1946	Turkey	+ (2)	-	+	+	+	-	+	
123	*Campylobacter*	*jejuni*	Ad1947	Turkey	+	-	+	+	+	-	+	
124	*Campylobacter*	*jejuni*	Ad1948	Turkey	+ (2)	-	+	+	+	-	+	
125	*Campylobacter*	*jejuni*	Ad1949	Turkey	+	-	+	+	+	-	+	
126	*Campylobacter*	*jejuni*	Ad1950	Turkey	+	-	+	+	+	-	+	
127	*Campylobacter*	*jejuni*	Ad1974	River water	+	-	+	+	+ (1)	- (1)	+	
128	*Campylobacter*	*jejuni*	Ad1975	River water	+	-	+	+	+	-	+	
129	*Campylobacter*	*jejuni*	Ad1976	River water	+	-	+	+	+	-	+	
130	*Campylobacter*	*jejuni*	Ad1977	River water	+	-	+	+	+	-	+	

INCLUSIVITY												
N°	Strain		Reference	Origin	Columbia blood agar (CBA) CAMPYLOBACTER spp latex kit			CampyFood agar 41,5°C				
								Growth *	CAMPYLOBACTER spp latex kit			
					Latex	Latex control	Result		Latex	Latex control	Result	
131	*Campylobacter*	*jejuni*	Ad1978	River water	+	-	**+**	+	+	-	**+**	
132	*Campylobacter*	*jejuni*	Ad1979	River water	+	-	**+**	+	+	-	**+**	
133	*Campylobacter*	*jejuni*	Ad1988	Wild birds	+	-	**+**	+	+	-	**+**	
134	*Campylobacter*	*jejuni*	Ad1989	Wild birds	+	-	**+**	+	+	-	**+**	
135	*Campylobacter*	*jejuni*	Ad1990	Wild birds	+	-	**+**	+	+	-	**+**	
136	*Campylobacter*	*jejuni*	Ad1991	Wild birds	+	-	**+**	+	+	-	**+**	
137	*Campylobacter*	*jejuni*	Ad1992	Wild birds	+	-	**+**	+	+	-	**+**	
138	*Campylobacter*	*jejuni* subsp *jejuni*	ATCC33291	/	+	-	**+**	+	+	-	**+**	
139	*Campylobacter*	*jejuni* subsp *jejuni*	CIP70.2	/	+	-	**+**	+	+	-	**+**	
140	*Campylobacter*	*lari*	Ad1067	Turkey neck skin	- / + (2)	-	**- / +**	+	- / + (2)	-	**- / +**	
141	*Campylobacter*	*lari*	Ad1130	/	- / + (3)	-	**- / + d**	+	- / + (2)	-	**- / +**	
142	*Campylobacter*	*lari*	ATCC35222	/	- / + (3)	-	**- / + d**	+	- / + (3)	-	**- / + d**	
143	*Campylobacter*	*lari*	CIP102722 T	/	- / + (3)	-	**- / + d**	+	- / + (2)	-	**- / +**	
144	*Campylobacter*	*upsaliensis*	Ad1139	Feces	+	-	**+**	St	/	/	/	
145	*Campylobacter*	*upsaliensis*	ATCC43954	Coproculture	- / +	-	**- / +**	St	/	/	/	
146	*Campylobacter*	*upsaliensis*	ATCC49815	/	+	-	**+**	St	/	/	/	
147	*Campylobacter*	*upsaliensis*	ATCC49816	Human feces	+	-	**+**	St	/	/	**-**	
148	*Campylobacter*	*upsaliensis*	CIP103681	/	- / +	-	**-/+**	St	/	/	/	
149	*Campylobacter*	*subantarcticus*	Ad1891	/	- / + (2)	-	**- / +**	+	- / + (3)	-	**- / + d**	

INCLUSIVITY												
N°	Strain		Reference	Origin	Columbia blood agar (CBA) CAMPYLOBACTER spp latex kit			CampyFood agar 41,5°C				
								Growth *	CAMPYLOBACTER spp latex kit			
					Latex	Latex control	Result		Latex	Latex control	Result	
150	*Campylobacter*	*lari* subsp. *concheus*	Ad1911	/	- / + (2)	-	**- / +**	+	- / + (2)	-	**- / +**	
151	*Campylobacter*	*hyointestinalis*	Ad1898	Pork feces	- / + (2)	-	**- / +**	+	- / + (2)	-	**- / +**	
152	*Campylobacter*	*hyointestinalis*	Ad1896	Pork feces	- / + (2)	-	**- / +**	+	- / + d (2)	-	**- / + d**	

All the latex tests were performed on 1 isolated colony, excepted when mentioned in the result.

* :	Caracteristic colony = colony with red-bordeaux to orange-red coloration with sometimes metallic sheen
- / + :	First result obtained from 1 isolated colony / Second result obtained with pooled colonies
1:	Presence of lumps
2:	Fine granularity
3:	Finer granularity hardly noticeable
d:	Doubtful result
st:	Sterile plate

EXCLUSIVITY														
N°	Strain		Reference	Origin	VIDAS test (non-selective broth)			Columbia blood agar (CBA) CAMPYLOBACTER spp latex kit			CampyFood agar 41,5°C			
											Growth *	CAMPYLOBACTER spp latex kit		
					Result	RFV	VT	Latex	Latex control	Result		Latex	Latex control	Result
1	*Acinetobacter*	*baumanii*	Ad1090	Hemoglobin	-	161	0,03	+	+	-	+	- (3)	-	-
2	*Acinetobacter*	*calco var anitrat*	1	Poultry	-	156	0,03	-	-	-	St	/	/	/
3	*Acinetobacter*	*calcoaceticus*	Ad1092	White poultry meat	-	211	0,05	-	-	-	+ d	- (3)	-	-
4	*Acinetobacter*	*johnsonii*	Ad1317	Liquid egg (support)	-	155	0,03	-	-	-	St	/	/	/
5	*Acinetobacter*	*sp.*	Ad 1551	Water	-	150	0,03	-	-	-	St	/	/	/
6	*Acinetobacter*	*spp*	Adria5	/	-	200	0,04	+	+	-	St	/	/	/
7	*Aeromonas*	*allosaccharophile*	Ad1318	Liquid egg (support)	-	155	0,03	-	-	-	St	/	/	/
8	*Aeromonas*	*allosaccharophile*	Ad1518	Liquid egg	-	158	0,03	-	-	-	St	/	/	/
9	*Aeromonas*	*hydrophila*	CIP5750	/	-	155	0,03	+ (3)	+ (3)	-	St	/	/	/
10	*Aeromonas*	*hydrophila*	CIP74.30	/	-	169	0,04	+ d	-	**+ d**	St	/	/	/
11	*Aeromonas*	*punctata*	Ad1329	Liquid egg	-	163	0,04	-	-	-	St	/	/	/
12	*Aeromonas*	*punctata*	Ad1517	Liquid egg	-	159	0,03	-	-	-	St	/	/	/
13	*Aeromonas*	*salmonicida*	Ad1319	Liquid egg	-	164	0,04	-	-	-	St	/	/	/
14	*Aeromonas*	*salmonicida*	Ad1716	Liquid egg	-	218	0,05	+ d	+ d	-	St	/	/	/
15	*Aeromonas*	*sobria*	CIP74.33	/	-	170	0,04	-	-	-	St	/	/	/
16	*Agrobacterium*	*tumefasciens*	Ad1550	Stagnant water	-	210	0,04	-	-	-	St	/	/	/
17	*Alcaligenes*	*faecalis*	ATCC8750	/	-	156	0,03	-	-	-	St	/	/	/

EXCLUSIVITY															
N°	Strain		Reference	Origin	VIDAS test (non-selective broth)			Columbia blood agar (CBA) CAMPYLOBACTER spp latex kit			CampyFood agar 41,5°C			
											Growth *	CAMPYLOBACTER spp latex kit		
					Result	RFV	VT	Latex	Latex control	Result		Latex	Latex control	Result
18	*Arcobacter*	*butzleri*	CIP103493	/	-	221	0,05	-	-	-	+	-	-	-
19	*Arcobacter*	*butzleri*	Ad1126	Chicken	-	219	0,05	-	-	-	+	-	-	-
20	*Arcobacter*	*butzleri*	Ad1881	Plucking machine (wipe)	-	166	0,04	-	-	-	St	/	/	/
21	*Arcobacter*	*cryaerophilus*	CIP104014	/	-	155	0,03	+	+	-	St	/	/	/
22	*Arcobacter*	*cryarerophilus*	Ad1124	Chicken	-	155	0,03	-	-	-	St	/	/	/
23	*Arcobacter*	*skirrowii*	DSM7302	/	-	220	0,05	-	-	-	St	/	/	/
24	*Burholderia*	*sp.*	Ad 2003	Poultry bleeding area (wipe)	-	156	0,03	- (3)	- (3)	-	+	- (3)	- (3)	-
25	*Burkholderia*	*spp*	Ad1587	Mud	-	213	0,05	-	-	-	St	/	/	/
26	*Burkholderia*	*vietnamiensis*	Ad1538	Floor	-	153	0,03	-	-	-	St	/	/	/
27	*Campylobacter*	*fetus*	Ad1069	Chicken	+	4469	1,10	- / -	-	-	St	/	/	/
28	*Campylobacter*	*fetus*	Ad1068	Chicken	+	3393	0,83	- / -	-	-	St	/	/	/
29	*Carnobacterium*	*mobile*	ATCC49516	Irradiated chicken	-	169	0,04	-	-	-	St	/	/	/
30	*Chryseobacterium*	*sp*	Ad1322	Liquid egg (support)	-	208	0,04	-	-	-	St	/	/	/
31	*Chryseobacterium*	*ureilyticum*	Ad1340	Liquid egg	-	210	0,04	+ d	-	+ d	St	/	/	/
32	*Citrobacter*	*freundii*	54	Mechanically separated poultry meat	-	156	0,03	-	-	-	St	/	/	/
33	*Citrobacter*	*freundii*	Ad173	Chicken liver	-	105	0,02	-	-	-	St	/	/	/

EXCLUSIVITY															
N°	Strain		Reference	Origin	VIDAS test (non-selective broth)			Columbia blood agar (CBA) CAMPYLOBACTER spp latex kit			CampyFood agar 41,5°C			
											Growth *	CAMPYLOBACTER spp latex kit		
					Result	RFV	VT	Latex	Latex control	Result		Latex	Latex control	Result
34	*Comamonas*	*aquatica*	Ad1543	Water	-	151	0,03	-	-	-	St	/	/	/
35	*Comamonas*	*sp.*	Ad1537	Floor	-	214	0,05	-	-	-	St	/	/	/
36	*Enterobacter*	*amnigenus*	A00C068	Cockerel	-	82	0,02	-	-	-	St	/	/	/
37	*Enterobacter*	*intermedius*	88a	Minced gizzards	-	86	0,02	- (3)	- (3)	-	St	/	/	/
38	*Enterobacter*	*fergusoni*	2876	Environment	-	97	0,02	-	-	-	St	/	/	/
39	*Enterobacter*	*spp*	D7	Poultry	-	80	0,01	+ (1)	+ (1)	-	St	/	/	/
40	*Enterococcus*	*durans*	Ad148	Ham	-	144	0,03	-	-	-	St	/	/	/
41	*Enterococcus*	*faecalis*	25	Chicken leg	-	130	0,03	- (3)	- (3)	-	St	/	/	/
42	*Enterococcus*	*faecium*	Ad1883	Turkey skin	-	145	0,03	-	-	-	St	/	/	/
43	*Enterococcus*	*gallinarum*	Ad1885	Poultry	-	120	0,02	-	-	-	St	/	/	/
44	*Enterococcus*	*gallinarum*	Ad1145	Guacamole	-	124	0,03	-	-	-	St	/	/	/
45	*Escherichia*	*coli*	Ad 241	Chicken	-	77	0,01	-	+ (1)	-	St	/	/	/
46	*Escherichia*	*coli*	Ad1915	Chicken leg	-	161	0,03	-	-	-	-	-	-	-
47	*Escherichia*	*coli*	Ad1999	Chicken meat (no skin)	-	156	0,03	-	-	-	-	-	-	-
48	*Escherichia*	*coli*	Ad 2000	Chicken meat (no skin)	-	156	0,03	+	+ (1)	-	-	+	+	-
49	*Escherichia*	*coli*	Ad 2001	Chicken meat (no skin)	-	156	0,03	+	+	-	-	+ (2) d	+	-
50	*Escherichia*	*fergusonii*	Ad1381	Water	-	154	0,03	-	-	-	St	/	/	/

EXCLUSIVITY															
N°	Strain		Reference	Origin	VIDAS test (non-selective broth)			Columbia blood agar (CBA) CAMPYLOBACTER spp latex kit			CampyFood agar 41,5°C			
											Growth *	CAMPYLOBACTER spp latex kit		
					Result	RFV	VT	Latex	Latex control	Result		Latex	Latex control	Result
51	*Escherichia*	*vulneris*	127	Raw milk	-	152	0,03	-	-	-	St	/	/	/
52	*Flavobacterium*	*hydratis*	Ad1323	Liquid egg (support)	-	155	0,03	- (3)	- (3)	-	St	/	/	/
53	*Flavobacterium*	*indologenes*	26	Non pasteurized liquid egg	-	154	0,03	-	-	-	St	/	/	/
54	*Gluconobacter*	*cerinus*	Ad374	Fruit-based dietary supplement	-	147	0,03	-	-	-	St	/	/	/
55	*Gluconobacter*	*oxydans*	Ad997	Sweat drink (low pH)	-	89	0,02	-	-	-	St	/	/	/
56	*Hafnia*	*alvei*	168	Mechanically separated duck meat (raw)	-	210	0,04	-	-	-	St	/	/	/
57	*Hafnia*	*alvei*	A00C067	Cockerel	-	152	0,03	- (3)	- (3)	-	St	/	/	/
58	*Klebsiella*	*pneumoniae subsp pneumoniae*	47	Raw turkey skin	-	158	0,03	+ (2)	+ (2)	-	St	/	/	/
59	*Lactobacillus*	*brevis*	Ad405	Ham	-	153	0,03	-	-	-	St	/	/	/
60	*Lactobacillus*	*curvatus*	Ad379	Salted meat products	-	149	0,03	-	-	-	St	/	/	/
61	*Lactobacillus*	*paraplantarum*	Ad372	Sausage	-	154	0,03	-	-	-	St	/	/	/
62	*Lactobacillus*	*sakei*	Ad404	Ham	-	144	0,03	-	-	-	St	/	/	/
63	*Lactobacillus*	*vermoldensis*	Ad373	Sausage	-	151	0,03	-	-	-	St	/	/	/
64	*Lactobacillus*	*sp.*	Ad1906	Duck breast	-	156	0,03	-	-	-	St	/	/	/
65	*Moraxella*		49.7	Chicken	-	159	0,03	+	+	-	St	/	/	/

EXCLUSIVITY															
N°	Strain		Reference	Origin	VIDAS test (non-selective broth)			Columbia blood agar (CBA) CAMPYLOBACTER spp latex kit			CampyFood agar 41,5°C			
											Growth *	CAMPYLOBACTER spp latex kit		
					Result	RFV	VT	Latex	Latex control	Result		Latex	Latex control	Result
66	*Moraxella*		51.11	Chicken	-	153	0,03	-	-	-	St	/	/	/
67	*Myroïdes*	*odoratiminus*	Ad1341	Liquid egg	-	156	0,03	-	-	-	St	/	/	/
68	*Ochrobactrum*	*pseudintermedius*	Ad1057	Turkey skin	-	221	0,05	-	-	-	+	-	-	-
69	*Ochrobactrum*	*pseudintermedius*	Ad1058	Turkey neck skin	-	218	0,05	-	-	-	+	-	-	-
70	*Ochrobactrum*	*sp.*	Ad1916	Chicken meat (no skin)	-	172	0,04	-	-	-	-	- (3)	-	-
71	*Ochrobactrum*	*sp.*	Ad2006	Pork feces	-	162	0,03	-	-	-	-	-	-	-
72	*Pandoraea*	*sp.*	Ad1882	/	-	161	0,03	-	-	-	+ d	- (3)	-	-
73	*Petrobacter*	*succinimandens*	Ad423	/	-	152	0,03	-	-	-	St	/	/	/
74	*Photobacterium*	*phosphoreum*	Ad1506	Salmon	-	144	0,03	-	-	-	St	/	/	/
75	*Plesiomonas*	*shigelloïdes*	Ad673	Fish	-	154	0,03	-	-	-	St	/	/	/
76	*Providencia*	*stuartii*	46	Poultry leg	-	129	0,03	- (3)	- (3)	-	St	/	/	/
77	*Pseudomonas*	*aeruginosa*	Ad1528	River water	-	152	0,03	- (3)	- (3)	-	St	/	/	/
78	*Pseudomonas*	*fluorescens*	J2	Spoiled ham	-	154	0,03	- (3)	- (3)	-	St	/	/	/
79	*Pseudomonas*	*fragi*	Ad1327	Liquid egg	-	155	0,03	-	- (3)	-	St	/	/	/
80	*Pseudomonas*	*otitidis*	Ad1880	Turkey skin	-	152	0,03	- (3)	- (3)	-	St	/	/	/
81	*Pseudomonas*	*pseudo alcaligenes*	Ad1592	Environment water	-	155	0,03	-	-	-	St	/	/	/
82	*Pseudomonas*	*putida*	J7	Spoiled ham	-	156	0,03	-	-	-	-	- (3)	- (3)	-

EXCLUSIVITY															
N°	Strain		Reference	Origin	VIDAS test (non-selective broth)			Columbia blood agar (CBA) CAMPYLOBACTER spp latex kit			CampyFood agar 41,5°C			
											Growth *	CAMPYLOBACTER spp latex kit		
					Result	RFV	VT	Latex	Latex control	Result		Latex	Latex control	Result
83	*Pseudomonas*	*putida*	4	Poultry	-	154	0,03	-	-	-	St	/	/	/
84	*Pseudomonas*	*sp.*	Ad 2004	Poultry processing water	-	154	0,03	-	-	-	+	- (3)	- (3)	-
85	*Pseudomonas*	*stutzeri*	Ad1593	Environment water	-	154	0,03	-	-	-	St	/	/	/
86	*Pseudomonas*	*veronii*	Ad1588	Industrial environment	-	155	0,03	-	-	-	-	-	-	-
87	*Psychrobacter*	*psychrophilus*	Ad1343	Liquid egg	-	151	0,03	-	-	-	St	/	/	/
88	*Ralstonia*	*mannitolilytica*	Ad1059	Turkey neck skin	-	157	0,03	-	-	-	+ d	-	-	-
89	*Ralstonia*	*mannitolilytica*	DSM17512	/	-	154	0,03	-	-	-	+	-	-	-
90	*Serratia*	*liquefaciens*	87a	Minced gizzards	-	151	0,03	- (3)	-	-	St	/	/	/
91	*Shewanella*	*putrefasciens*	EN15/34	Trout	-	218	0,05	-	-	-	St	/	/	/
92	*Shigella*	*flexneri*	Ad2002	Chicken leg	-	155	0,03	+ (1)	+ (2)	-	-	+ (2)	+ (2)	-
93	*Shigella*	*sonnei*	CIP82.49T	/	-	151	0,03	-	-	-	St	/	/	/
94	*Shigella*	*sp*	Ad1367	Swimming pool water	-	152	0,03	-	-	-	St	/	/	/
95	*Sphingobacterium*	*sp*	Ad1324	Liquid egg (support)	-	152	0,03	-	-	-	St	/	/	/
96	*Staphylococcus*	*aureus*	Ad906	Merguez	-	183	0,04	-	-	-	St	/	/	/
97	*Vibrio*	*alginolyticus*	Ad1888	Oyster	-	142	0,03	-	-	-	St	/	/	/
98	*Vibrio*	*cholereae*	Ad1887	Panga fish filet	-	144	0,03	+	+	-	St	/	/	/

EXCLUSIVITY															
N°	Strain		Reference	Origin	VIDAS test (non-selective broth)			Columbia blood agar (CBA) CAMPYLOBACTER spp latex kit			CampyFood agar 41,5°C			
											Growth *	CAMPYLOBACTER spp latex kit		
					Result	RFV	VT	Latex	Latex control	Result		Latex	Latex control	Result
99	*Vibrio*	*parahaemolyticus*	CIP75.2	/	-	156	0,03	-	-	-	St	/	/	/
100	*Yersinia*	*enterocolitica*	A00C066	Cockerel	-	146	0,03	-	-	-	St	/	/	/
101	*Shewanella*	*baltica*	Ad1700	Salmon	-	214	0,05	-	-	-	St	/	/	/

All the latex tests were performed on 1 isolated colony, excepted when mentioned in the result.

* : Caracteristic colony = colony with red-bordeaux to orange-red coloration with sometimes metallic sheen
- / + : First result obtained from 1 isolated colony / Second result obtained with pooled colonies
1: Presence of lumps
2: Fine granularity
3: Finer granularity hardly noticeable
d: Doubtful result
st: Sterile plate

Annex 6 – VITEK MS extension study results (NF Validation 2014)

VITEK MS Result:
+: *Campylobacter coli*, *jejuni* or *lari*
-: different from *Campylobacter* genus
No result: no identification provided by the VITEK MS

INCLUSIVITY							
n°	Strain		Reference	Origin	CampyFood Broth (CFB): 48 h ± 4 h at 41.5°C CampyFood Agar (CFA): 40 - 48h at 41.5°C		
					Colony	Confirmation result VITEK MS test V3.1	Columbia Blood Agar (CBA) Confirmation result VITEK MS test V3.1
1	*Campylobacter*	*coli*	Ad1004	Turkey skin	+	+	+
2	*Campylobacter*	*coli*	Ad1005	Turkey skin	+	+	+
3	*Campylobacter*	*coli*	Ad1007	Chicken skin	+	+	+
4	*Campylobacter*	*coli*	Ad1008	Turkey skin	+	+	+
5	*Campylobacter*	*coli*	Ad1009	Chicken skin	+	+	+
6	*Campylobacter*	*coli*	Ad1010	Chicken skin	+	+	+
7	*Campylobacter*	*coli*	Ad1011	Turkey skin	+	+	+
8	*Campylobacter*	*coli*	Ad1012	Chicken skin	+	+	+
9	*Campylobacter*	*coli*	Ad1018	Chicken leg	+	+	+
10	*Campylobacter*	*coli*	Ad1024	Chicken skin	+	+	+
11	*Campylobacter*	*coli*	Ad1025	Turkey neck skin	+	+	+
12	*Campylobacter*	*coli*	Ad1072	Turkey neck skin	+	+	+
13	*Campylobacter*	*coli*	Ad1073	Turkey neck skin	+	+	+
14	*Campylobacter*	*coli*	Ad1074	Turkey neck skin	+	+	+

INCLUSIVITY							
n°	Strain		Reference	Origin	CampyFood Broth (CFB): 48 h ± 4 h at 41.5°C CampyFood Agar (CFA): 40 - 48h at 41.5°C		
					Colony	Confirmation result VITEK MS test V3.1	Columbia Blood Agar (CBA) Confirmation result VITEK MS test V3.1
15	*Campylobacter*	*coli*	Ad1075	Turkey neck skin	+	+	+
16	*Campylobacter*	*coli*	Ad1077	Turkey neck skin	+	+	+
17	*Campylobacter*	*coli*	Ad1087	Chicken neck skin	+	+	+
18	*Campylobacter*	*coli*	Ad1121	Faecum	+	+	+
19	*Campylobacter*	*coli*	Ad1122	Faecum	+	+	+
20	*Campylobacter*	*coli*	Ad1123	Beef tream	+	+	+
21	*Campylobacter*	*coli*	Ad1125	Chicken	+	+	+
22	*Campylobacter*	*coli*	Ad1477	Carcass	+	+	+
23	*Campylobacter*	*coli*	Ad1478	Carcass	+	+	+
24	*Campylobacter*	*coli*	Ad1479	Carcass	+	+	+
25	*Campylobacter*	*coli*	Ad1480	Carcass	+	+	+
26	*Campylobacter*	*coli*	Ad1481	Carcass	+	+	+
27	*Campylobacter*	*coli*	Ad1485	Faecum	+	+	+
28	*Campylobacter*	*coli*	Ad1889	Pork environmental sample	+	+	+
29	*Campylobacter*	*coli*	CIP70.77	Faecum	+	+	+
30	*Campylobacter*	*coli*	CIP70.80	Faecum	+	+	+
31	*Campylobacter*	*coli*	Ad1893	Waste	+	+	+
32	*Campylobacter*	*coli*	Ad1894	Pork faecum	+	+	+
33	*Campylobacter*	*coli*	Ad1895	Pork faecum	+	+	+
34	*Campylobacter*	*coli*	Ad1897	Pork faecum	+	+	+
35	*Campylobacter*	*coli*	Ad1899	Pork faecum	+	+	+
36	*Campylobacter*	*coli*	Ad1900	Pork faecum	+	+	+

INCLUSIVITY							
n°	Strain		Reference	Origin	CampyFood Broth (CFB): 48 h ± 4 h at 41.5°C CampyFood Agar (CFA): 40 - 48h at 41.5°C		
					Colony	Confirmation result VITEK MS test V3.1	Columbia Blood Agar (CBA) Confirmation result VITEK MS test V3.1
37	*Campylobacter*	*coli*	Ad1901	Chicken meat	+	+	+
38	*Campylobacter*	*coli*	Ad1902	Chicken meat	+	+	+
39	*Campylobacter*	*coli*	Ad1905	Leg duck	+	+	+
40	*Campylobacter*	*coli*	Ad1907	Leg duck	+	+	+
41	*Campylobacter*	*coli*	Ad1908	Duck meat	+	+	+
42	*Campylobacter*	*coli*	Ad1909	Chicken meat	+	+	+
43	*Campylobacter*	*coli*	Ad1924	Chicken	+	+	+
44	*Campylobacter*	*coli*	Ad1925	Chicken	+	+	+
45	*Campylobacter*	*coli*	Ad1926	Chicken	+	+	+
46	*Campylobacter*	*coli*	Ad1927	Chicken	+	+	+
47	*Campylobacter*	*coli*	Ad1928	Chicken	+	+	+
48	*Campylobacter*	*coli*	Ad1929	Chicken	+	+	+
49	*Campylobacter*	*coli*	Ad1930	Chicken	+	+	+
50	*Campylobacter*	*coli*	Ad1938	Chicken	+	+	+
51	*Campylobacter*	*coli*	Ad1939	Chicken	+	No result	+
52	*Campylobacter*	*coli*	Ad1940	Chicken	+	+	+
53	*Campylobacter*	*coli*	Ad1941	Chicken	+	+	+
54	*Campylobacter*	*coli*	Ad1942	Chicken	+	+	+
55	*Campylobacter*	*coli*	Ad1943	Chicken	+	+	+
56	*Campylobacter*	*coli*	Ad1944	Chicken	+	+	+
57	*Campylobacter*	*coli*	Ad1952	Turkey	+	+	+
58	*Campylobacter*	*coli*	Ad1953	Turkey	+	+	+

INCLUSIVITY							
n°	Strain		Reference	Origin	CampyFood Broth (CFB): 48 h ± 4 h at 41.5°C CampyFood Agar (CFA): 40 - 48h at 41.5°C		
					Colony	Confirmation result VITEK MS test V3.1	Columbia Blood Agar (CBA) Confirmation result VITEK MS test V3.1
59	*Campylobacter*	*coli*	Ad1954	Turkey	+	+	+
60	*Campylobacter*	*coli*	Ad1955	Turkey	+	+	+
61	*Campylobacter*	*coli*	Ad1956	Turkey	+	+	+
62	*Campylobacter*	*coli*	Ad1957	Turkey	+	+	+
63	*Campylobacter*	*coli*	Ad1958	Turkey	+	+	+
64	*Campylobacter*	*coli*	Ad1959	Pork	+	+	+
65	*Campylobacter*	*coli*	Ad1960	Pork	+	+	+
66	*Campylobacter*	*coli*	Ad1961	Pork	+	+	+
67	*Campylobacter*	*coli*	Ad1962	Pork	+	+	+
68	*Campylobacter*	*coli*	Ad1963	Pork	+	+	+
69	*Campylobacter*	*coli*	Ad1964	Pork	+	+	+
70	*Campylobacter*	*coli*	Ad1965	Pork	+	+	+
71	*Campylobacter*	*coli*	Ad1966	Pork	+	+	+
72	*Campylobacter*	*coli*	Ad1967	Pork	+	+	+
73	*Campylobacter*	*coli*	Ad1968	Pork	+	+	+
74	*Campylobacter*	*coli*	Ad1969	Pork	+	+	+
75	*Campylobacter*	*coli*	Ad1970	Pork	+	+	+
76	*Campylobacter*	*coli*	Ad1971	Pork	+	+	+
77	*Campylobacter*	*coli*	Ad1972	Pork	+	+	+
78	*Campylobacter*	*coli*	Ad1980	River water	+	+	+
79	*Campylobacter*	*coli*	Ad1981	River water	+	+	+
80	*Campylobacter*	*coli*	Ad1982	River water	+	+	+

INCLUSIVITY							
n°	Strain		Reference	Origin	CampyFood Broth (CFB): 48 h ± 4 h at 41.5°C CampyFood Agar (CFA): 40 - 48h at 41.5°C		
					Colony	Confirmation result VITEK MS test V3.1	Columbia Blood Agar (CBA) Confirmation result VITEK MS test V3.1
81	*Campylobacter*	*coli*	Ad1983	River water	+	+	+
82	*Campylobacter*	*coli*	Ad1984	River water	+	+	+
83	*Campylobacter*	*coli*	Ad1985	River water	+	+	+
84	*Campylobacter*	*jejuni*	Ad1000	Turkey neck skin	+	+	+
85	*Campylobacter*	*jejuni*	Ad1002	Turkey neck skin	+	+	+
86	*Campylobacter*	*jejuni*	Ad1003	Turkey neck skin	+	+	+
87	*Campylobacter*	*jejuni*	Ad1013	Chicken skin	+	+	+
88	*Campylobacter*	*jejuni*	Ad1014	Chicken neck skin	+	+	+
89	*Campylobacter*	*jejuni*	Ad1015	Chicken skin	+	+	+
90	*Campylobacter*	*jejuni*	Ad1016	Chicken skin	+	+	+
91	*Campylobacter*	*jejuni*	Ad1021	Chicken neck skin	+	+	+
92	*Campylobacter*	*jejuni*	Ad1023	Turkey neck skin	+	+	+
93	*Campylobacter*	*jejuni*	Ad1076	Turkey neck skin	+	+	+
94	*Campylobacter*	*jejuni*	Ad1078	Turkey neck skin	+	+	+
95	*Campylobacter*	*jejuni*	Ad1079	Turkey neck skin	+	+	+
96	*Campylobacter*	*jejuni*	Ad1080	Turkey neck skin	+	+	+
97	*Campylobacter*	*jejuni*	Ad1081	Turkey neck skin	+	+	+
98	*Campylobacter*	*jejuni*	Ad1082	Turkey neck skin	+	+	+
99	*Campylobacter*	*jejuni*	Ad1083	Turkey neck skin	+	+	+
100	*Campylobacter*	*jejuni*	Ad1084	Chicken neck skin	+	+	+
101	*Campylobacter*	*jejuni*	Ad1085	Chicken neck skin	+	+	+
102	*Campylobacter*	*jejuni*	Ad1086	Chicken neck skin	+	+	+

INCLUSIVITY							
n°	Strain		Reference	Origin	CampyFood Broth (CFB): 48 h ± 4 h at 41.5°C CampyFood Agar (CFA): 40 - 48h at 41.5°C		
					Colony	Confirmation result VITEK MS test V3.1	Columbia Blood Agar (CBA) Confirmation result VITEK MS test V3.1
103	*Campylobacter*	*jejuni*	Ad1088	Chicken neck skin	+	+	+
104	*Campylobacter*	*jejuni*	Ad1089	Chicken neck skin	+	+	+
105	*Campylobacter*	*jejuni*	CIP70.54	Faecum	+	+	+
106	*Campylobacter*	*jejuni*	Ad1892	Carcass	+	+	+
107	*Campylobacter*	*jejuni*	Ad1910	Chicken meat	+	+	+
108	*Campylobacter*	*jejuni*	Ad1917	Chicken	+	+	+
109	*Campylobacter*	*jejuni*	Ad1918	Chicken	+	+	+
110	*Campylobacter*	*jejuni*	Ad1919	Chicken	+	+	+
111	*Campylobacter*	*jejuni*	Ad1920	Chicken	+	+	+
112	*Campylobacter*	*jejuni*	Ad1921	Chicken	+	+	+
113	*Campylobacter*	*jejuni*	Ad1922	Chicken	+	+	+
114	*Campylobacter*	*jejuni*	Ad1923	Chicken	+	+	+
115	*Campylobacter*	*jejuni*	Ad1932	Chicken	+	+	+
116	*Campylobacter*	*jejuni*	Ad1933	Chicken	+	+	+
117	*Campylobacter*	*jejuni*	Ad1934	Chicken	+	+	+
118	*Campylobacter*	*jejuni*	Ad1935	Chicken	+	+	+
119	*Campylobacter*	*jejuni*	Ad1936	Chicken	+	+	+
120	*Campylobacter*	*jejuni*	Ad1946	Turkey	+	+	+
121	*Campylobacter*	*jejuni*	Ad1947	Turkey	+	+	+
122	*Campylobacter*	*jejuni*	Ad1948	Turkey	+	+	+
123	*Campylobacter*	*jejuni*	Ad1949	Turkey	+	+	+
124	*Campylobacter*	*jejuni*	Ad1950	Turkey	+	+	+

INCLUSIVITY							
n°	Strain		Reference	Origin	CampyFood Broth (CFB): 48 h ± 4 h at 41.5°C CampyFood Agar (CFA): 40 - 48h at 41.5°C		
					Colony	Confirmation result VITEK MS test V3.1	Columbia Blood Agar (CBA) Confirmation result VITEK MS test V3.1
125	*Campylobacter*	*jejuni*	Ad1974	River water	+	+	+
126	*Campylobacter*	*jejuni*	Ad1975	River water	+	+	+
127	*Campylobacter*	*jejuni*	Ad1976	River water	+	+	+
128	*Campylobacter*	*jejuni*	Ad1977	River water	+	+	+
129	*Campylobacter*	*jejuni*	Ad1978	River water	+	+	+
130	*Campylobacter*	*jejuni*	Ad1979	River water	+	+	+
131	*Campylobacter*	*jejuni*	Ad1988	Wind bird	+	+	+
132	*Campylobacter*	*jejuni*	Ad1989	Wind bird	+	+	+
133	*Campylobacter*	*jejuni*	Ad1990	Wind bird	+	+	+
134	*Campylobacter*	*jejuni*	Ad1991	Wind bird	+	+	+
135	*Campylobacter*	*jejuni*	Ad1992	Wind bird	+	+	+
136	*Campylobacter*	*jejuni subsp jejuni*	ATCC33291	/	+	+	+
137	*Campylobacter*	*jejuni subsp jejuni*	CIP70.2	/	+	+	+
138	*Campylobacter*	*lari*	Ad1067	Turckey neck skin	+	+	+
139	*Campylobacter*	*lari*	Ad1130		+	+	+
140	*Campylobacter*	*lari*	ATCC35222		+	+	+
141	*Campylobacter*	*lari*	CIP102722 T		+	+	+
142	*Campylobacter*	*upsaliensis*	Ad1139	Faecum	+	+	+
143	*Campylobacter*	*upsaliensis*	ATCC43954	Environmental sample	+	+	+
144	*Campylobacter*	*upsaliensis*	ATCC49815		+	+	+

INCLUSIVITY							
n°	Strain		Reference	Origin	CampyFood Broth (CFB): 48 h ± 4 h at 41.5°C CampyFood Agar (CFA): 40 - 48h at 41.5°C		
					Colony	Confirmation result VITEK MS test V3.1	Columbia Blood Agar (CBA) Confirmation result VITEK MS test V3.1
145	*Campylobacter*	*upsaliensis*	ATCC49816	Human faecum	+	+	+
146	*Campylobacter*	*upsaliensis*	CIP103681		+	+	+
147	*Campylobacter*	*subantarcticus*	Ad1891	/	+	+	+
148	*Campylobacter*	*lari subsp. concheus*	Ad1911	/	+	+	+
149	*Campylobacter*	*hyointestinalis*	Ad1898	Pork faecum	+	+	+
150	*Campylobacter*	*hyointestinalis*	Ad1896	Pork faecum	+	+	+

VITEK MS result:
st: no colony on the plate
-: VITEK MS result different from *Campylobacter coli*, *jejuni* or *lari*
No result: no identification provided by the VITEK MS

EXCLUSIVITY							
n°	Strain		Reference	Origin	Brucella: 48h		
					CamyFood Agar (CFA): 40-48h at 41.5°C		CBA: 40-48h at optimal growth T°
					Colony	VITEK MS test V3.1 Confirmation result	VITEK MS test V3.1 Confirmation result
1	*Acinetobacter*	*baumanii*	Ad1090	Hemoglobin	+	-	-
2	*Acinetobacter*	*calco var anitrat*	1	Poultry	st	/	-
3	*Acinetobacter*	*calcoaceticus*	Ad1092	Poultry meat	+	-	-
4	*Acinetobacter*	*johnsonii*	Ad1317	Whole egg	st	/	-
5	*Acinetobacter*	*sp.*	Ad 1551	Water	st	/	No result
6	*Acinetobacter*	*sp.*	Adria5	/	st	/	-
7	*Aeromonas*	*allosaccharophile*	Ad1318	Whole egg	st	/	-
8	*Aeromonas*	*allosaccharophile*	Ad1518	Whole egg	st	/	-
9	*Aeromonas*	*hydrophila*	CIP5750	/	st	/	-
10	*Aeromonas*	*hydrophila*	CIP74.30	/	st	/	-
11	*Aeromonas*	*punctata*	Ad1329	Whole egg	st	/	-
12	*Aeromonas*	*punctata*	Ad1517	Whole egg	st	/	-
13	*Aeromonas*	*salmonicida*	Ad1319	Whole egg	st	/	-
14	*Aeromonas*	*salmonicida*	Ad1716	Whole egg	st	/	-

EXCLUSIVITY							
n°	Strain		Reference	Origin	Brucella: 48h		
					CamyFood Agar (CFA): 40-48h at 41.5°C		CBA: 40-48h at optimal growth T°
					Colony	VITEK MS test V3.1 Confirmation result	VITEK MS test V3.1 Confirmation result
15	*Aeromonas*	*sobria*	CIP74.33	/	st	/	-
16	*Agrobacterium*	*tumefasciens*	Ad1550	Water	st	/	-
17	*Alcaligenes*	*faecalis*	ATCC8750	/	st	/	-
18	*Arcobacter*	*butzleri*	CIP103493	/	st	/	-
19	*Arcobacter*	*butzleri*	Ad1126	Chicken	st	/	-
20	*Arcobacter*	*butzleri*	Ad1881	Environmental sample	+	-	-
21	*Arcobacter*	*cryaerophilus*	CIP104014	/	st	/	-
22	*Arcobacter*	*cryarerophilus*	Ad1124	Chicken	st	/	-
23	*Arcobacter*	*skirrowii*	DSM7302	/	st	/	-
24	*Burkholderia*	*sp.*	Ad 2003	Environmental sample	+	-	No result
25	*Burkholderia*	*spp*	Ad1587	Mud	st	/	No result
26	*Burkholderia*	*vietnamiensis*	Ad1538	Ground	+	-	-
27	*Campylobacter*	*fetus*	Ad1069	Chicken	+	-	-
28	*Campylobacter*	*fetus*	Ad1068	Chicken	+	-	-
29	*Carnobacterium*	*mobile*	ATCC49516	Chicken	st	/	No result
30	*Chryseobacterium*	*sp*	Ad1322	Whole egg	st	/	-
31	*Chryseobacterium*	*ureilyticum*	Ad1340	Whole egg	st	/	-
32	*Citrobacter*	*freundii*	54	Poultry meat	st	/	-
33	*Citrobacter*	*freundii*	Ad173	Chiken liver	st	/	-

EXCLUSIVITY							
n°	Strain		Reference	Origin	Brucella: 48h		
					CamyFood Agar (CFA): 40-48h at 41.5°C		CBA: 40-48h at optimal growth T°
					Colony	VITEK MS test V3.1 Confirmation result	VITEK MS test V3.1 Confirmation result
34	*Comamonas*	*aquatica*	Ad1543	Water	+	-	-
35	*Comamonas*	*sp.*	Ad1537	Ground	st	/	-
36	*Enterobacter*	*amnigenus*	A00C068	Cockerel	st	/	No result
37	*Enterobacter*	*intermedius*	88a	Gizzard	st	/	-
38	*Enterobacter*	*fergusoni*	2876	Environmental sample	st	/	-
39	*Enterobacter*	*spp*	D7	Poultry	st	/	-
40	*Enterococcus*	*durans*	Ad148	Ham	st	/	-
41	*Enterococcus*	*faecalis*	25	Chicken meat	st	/	-
42	*Enterococcus*	*faecium*	Ad1883	Turkey skin	st	/	-
43	*Enterococcus*	*gallinarum*	Ad1885	Poultry	st	/	-
44	*Enterococcus*	*gallinarum*	Ad1145	Guacamole	st	/	-
45	*Escherichia*	*coli*	Ad 241	Chicken	st	/	-
46	*Escherichia*	*coli*	Ad1915	Chicken meat	+	-	-
47	*Escherichia*	*coli*	Ad1999	Chicken meat	+	-	-
48	*Escherichia*	*coli*	Ad 2000	Chicken meat	+	-	-
49	*Escherichia*	*coli*	Ad 2001	Chicken meat	+	-	-
50	*Escherichia*	*fergusonii*	Ad1381	Water	st	/	-
51	*Escherichia*	*vulneris*	127	Raw milk	st	/	-
52	*Flavobacterium*	*hydratis*	Ad1323	Whole egg	st	/	-

EXCLUSIVITY							
n°	Strain		Reference	Origin	Brucella: 48h		
					CamyFood Agar (CFA): 40-48h at 41.5°C		CBA: 40-48h at optimal growth T°
					Colony	VITEK MS test V3.1 Confirmation result	VITEK MS test V3.1 Confirmation result
53	*Flavobacterium*	*indologenes*	26	Whole egg	st	/	No result
54	*Gluconobacter*	*cerinus*	Ad374	Food sample	st	/	No result
55	*Gluconobacter*	*oxydans*	Ad997	Beverage	st	/	No result
56	*Hafnia*	*alvei*	168	Duck meat	st	/	-
57	*Hafnia*	*alvei*	A00C067	Cockerel	st	/	-
58	*Klebsiella*	*pneumoniae subsp pneumoniae*	47	Turkey skin	st	/	-
59	*Lactobacillus*	*brevis*	Ad405	Meat	st	/	-
60	*Lactobacillus*	*curvatus*	Ad379	Food sample	st	/	-
61	*Lactobacillus*	*paraplantarum*	Ad372	Delicatessen	st	/	-
62	*Lactobacillus*	*sakei*	85L905	Meat	st	/	-
63	*Lactobacillus*	*vermoldensis*	Ad373	Delicatessen	st	/	No result
64	*Lactobacillus*	*sp.*	Ad1906	Duck meat	st	/	-
65	*Moraxella*		49.7	Chicken	st	/	-
66	*Moraxella*		51.11	Chicken	st	/	No result
67	*Myroïdes*	*odoratiminus*	Ad1341	Whole egg	st	/	No result
68	*Ochrobactrum*	*pseudintermedius*	Ad1057	Turkey skin	+	-	-
69	*Ochrobactrum*	*pseudintermedius*	Ad1058	Turkey skin	+	-	-
70	*Ochrobactrum*	*sp.*	Ad1916	Chicken meat	+	-	-

EXCLUSIVITY							
n°	**Strain**		**Reference**	**Origin**	**Brucella: 48h**		
					CamyFood Agar (CFA): 40-48h at 41.5°C		**CBA: 40-48h at optimal growth T°**
					Colony	**VITEK MS test V3.1 Confirmation result**	**VITEK MS test V3.1 Confirmation result**
71	*Ochrobactrum*	*sp.*	Ad2006	Pork faecum	+	-	-
72	*Pandoraea*	*sp.*	Ad1882	/	+	-	-
73	*Petrobacter*	*succinimandens*	Ad423	/	st	/	No result
74	*Photobacterium*	*phosphoreum*	Ad1506	Salmon	st	/	-
75	*Plesiomonas*	*shigelloïdes*	Ad673	Fish	st	/	-
76	*Providencia*	*stuartii*	46	Poultry meat	st	/	-
77	*Pseudomonas*	*aeruginosa*	Ad1528	River water	st	/	-
78	*Pseudomonas*	*fluorescens*	J2	Ham	st	/	-
79	*Pseudomonas*	*fragi*	Ad1327	Whole egg	st	/	-
80	*Pseudomonas*	*otitidis*	Ad1880	Skin meat	st	/	No result
81	*Pseudomonas*	*pseudo alcaligenes*	Ad1592	Water	st	/	-
82	*Pseudomonas*	*putida*	J7	Ham	st	/	-
83	*Pseudomonas*	*putida*	4	Poultry	+	-	-
84	*Pseudomonas*	*sp.*	Ad 2004	Process water	+	-	-
85	*Pseudomonas*	*stutzeri*	Ad1593	Water	st	/	-
86	*Pseudomonas*	*veronii*	Ad1588	Environmental sample	st	/	-
87	*Psychrobacter*	*psychrophilus*	Ad1343	Whole egg	st	/	-
88	*Ralstonia*	*mannitolilytica*	Ad1059	Turkey skin	+	-	-
89	*Ralstonia*	*mannitolilytica*	DSM17512	/	+	-	-

EXCLUSIVITY							
n°	Strain		Reference	Origin	Brucella: 48h		
					CamyFood Agar (CFA): 40-48h at 41.5°C		CBA: 40-48h at optimal growth T°
					Colony	VITEK MS test V3.1 Confirmation result	VITEK MS test V3.1 Confirmation result
90	*Serratia*	*liquefaciens*	87a	Gizzard	st	/	-
91	*Shewanella*	*putrefasciens*	EN15/34	Trout	st	/	-
92	*Shigella*	*flexneri*	Ad2002	Chicken leg	+	-	-
93	*Shigella*	*sonnei*	CIP82.49T	/	st	/	-
94	*Shigella*	*sp*	Ad1367	Swimming pool water	st	/	-
95	*Sphingobacterium*	*sp*	Ad1324	Whole egg	st	/	-
96	*Staphylococcus*	*aureus*	Ad906	Sausage	st	/	-
97	*Vibrio*	*alginolyticus*	Ad1888	Olster	st	/	-
98	*Vibrio*	*cholereae*	Ad1887	Fish filet	st	/	-
99	*Vibrio*	*parahaemolyticus*	CIP75.2	/	st	/	-
100	*Yersinia*	*enterocolitica*	A00C066	Cockerel	st	/	-