

**Method Comparison and Interlaboratory Study Report for the ISO 16140-6:2019
validation of Check & Trace Salmonella 2.0 (CTS 2.0), for the confirmation and
typing of *Salmonella* spp.**

MicroVal study number: 2021LR107

Method/Kit name: Check & Trace Salmonella 2.0 (CTS 2.0)

Report version: MCS and ILS, v7, 07/10/2025

MicroVal Expert Laboratory: Eurofins WFC Analytics

Foreword

This report is prepared in accordance with ISO 16140-6:2019 and MicroVal technical committee interpretation of ISO 16140-6 v2.5.

Company:	Check-Points B.V. Binnenhaven 5 6709 PD Wageningen The Netherlands
Expert Laboratory:	Eurofins WFC Analytics Kolk 27 4241 TH Arkel The Netherlands
Method/Kit name:	Check & Trace Salmonella 2.0 (CTS 2.0)
Validation standard:	Microbiology of the food chain – Method validation Part 1: Vocabulary (ISO 16140-1:2016) and Part 6: Protocol for the validation of alternative (proprietary) methods for microbiological confirmation and typing procedures (ISO 16140-6:2019)
Reference method for confirmation:	Microbiology of the food chain – Horizontal method for detection, enumeration and serotyping of Salmonella Part 1: Detection of Salmonella spp. (ISO 6579-1:2017)
Reference method for typing:	Microbiology of the food chain – Horizontal method for detection, enumeration and serotyping of Salmonella Part 3: Guidelines for serotyping Salmonella spp. (ISO/TR 6579-3:2014)

Scope of validation:

Confirmation of presumptive Salmonella isolated on non selective NA and selective XLD agar

Typing of 106 Salmonella serovars: Abaetetuba, Aberdeen, Abortusovis, Adelaide, Agama, Agona, Alachua, Albany, Altona, Amsterdam, Anatum, Banana, Bareilly, Berta, Blockey, Bovismorbificans, Bracknell, Braenderup, Brandenburg, Bredeney, Cerro, Chester, Chailey, Choleraesuis, Corvallis, Cubana, Derby, Dublin, Eastbourne, Emek, Enteritidis, Fresno, Gallinarum, Gallinarum, Gallinarum Pullorum, Gaminara, Give, Gloucester, Goldcoast, Hadar, Haifa, Hartford, Havana, Heidelberg, Hvittingfoss, Idikan, Indiana, Infantis, Isangi, Javiana, Jerusalem, Johannesburg, Kapemba, Kedougou, Kentucky, Kiambu, Kingston, Kottbus, Lexington, Liverpool, Litchfield, Livingstone, Llandoff, London, Manhattan, Mbandaka, Meleagridis, Minnesota, Molade, Montevideo, Muenchen, Muenster, Newport, Nottingham, Offa, Ohio, Oranienburg, Ordonez, Orion, Ouakam, Panama, Paratyphi B biovar Java, Poona, Putten, Reading, Rissen, Saintpaul, Salmonella Bongori, Sandiego, Schwarzengrund, Senftenberg, Soerenga, Stanley, Taksony, Tennessee, Thompson, Typhimurium, Uganda, Urbana, Virchow, Weltevreden, Worthington, Yoruba, monophasic variant of Salmonella Typhimurium (1,4,[5],12:i:-), 4,[5],12:d:-, 47:z4,z23:-, 4,12:i:- (not typhimurium)

Certification organization:

LRQA

List of abbreviations

A(It)	Alternative method
AL	Acceptability Limit
CFU	Colony Forming Units
EL	Expert Laboratory
g	Gram
h	Hour
ILS	Interlaboratory Study
MCS	Method Comparison Study
min	minute
ml	millilitre
MR	(MicroVal) Method Reviewer
MVTC	MicroVal Technical Committee
na	not applicable
NS	Non-Suspect growth
nt	not tested
R(ef)	Reference method
S	Suspect growth
EA	Exclusivity Agreement
ED	Exclusivity Deviation
IA	Inclusivity Agreement
ID	Inclusivity Deviation
NA	Nutrient Agar
XLD	Xylose Lysine Deoxycholate
TSI	Triple Sugar/Iron
LDC	L-Lysine decarboxylation

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1 Introduction

In this project a MicroVal validation study, based on ISO 16140-6:2019, of an alternative method for the confirmation and typing of *Salmonella* spp. was carried out by Eurofins WFC Analytics as the MicroVal Expert Laboratory.

The alternative method used is:

Check & Trace Salmonella 2.0 (CTS 2.0). CTS 2.0 is a qualitative, semi-automated real-time PCR test. Testing is performed after a sample preparation step. The sample is used as input material for a 6-tube multiplex real-time PCR assay performed on the Biorad CFX 96 or CFX Opus 96 systems. Presence and absence of target sequences are assessed using FastFinder with Assay Plug-in (version 3.0). A final test result is generated automatically, after comparison with the Check & Trace Serovar Database (version 4.3), using the Check-Points CTS 2.0 Analysis portal (version 5.10STA).

The reference method used for confirmation is:

ISO 6579-1:2017, Microbiology of the food chain – Horizontal method for detection, enumeration and serotyping of *Salmonella* – Part 1: Detection of *Salmonella* spp.

The reference method used for typing is:

ISO/TR 6579-3:2014, Microbiology of the food chain – Horizontal method for detection, enumeration and serotyping of *Salmonella* – Part 3: Guidelines for serotyping *Salmonella* spp.

Scope of the validation study is: confirmation of presumptive *Salmonella* isolated on non selective NA and selective XLD agar and typing of 106 *Salmonella* serovars (Abaetetuba, Aberdeen, Abortusovis, Adelaide, Agama, Agona, Alachua, Albany, Altona, Amsterdam, Anatum, Banana, Bareilly, Berta, Blockey, Bovismorbificans, Bracknell, Braenderup, Brandenburg, Bredeney, Cerro, Chester, Chailey, Choleraesuis, Corvallis, Cubana, Derby, Dublin, Eastbourne, Emek, Enteritidis, Fresno, Gallinarum Gallinarum, Gallinarum Pullorum, Gaminara, Give, Gloucester, Goldcoast, Hadar, Haifa, Hartford, Havana, Heidelberg, Hvitvingfoss, Idikan, Indiana, Infantis, Isangi, Javiana, Jerusalem, Johannesburg, Kapemba, Kedougou, Kentucky, Kiambu, Kingston, Kottbus, Lexington, Liverpool, Litchfield, Livingstone, Llandoff, London, Manhattan, Mbandaka, Meleagridis, Minnesota, Molade, Montevideo, Muenchen, Muenster, Newport, Nottingham, Offa, Ohio, Oranienburg, Ordenez, Orion, Ouakam, Panama, Paratyphi B biovar Java, Poona, Putten, Reading, Rissen, Saintpaul, *Salmonella* Bongori, Sandiego, Schwarzengrund, Senftenberg, Soerenga, Stanley, Taksony, Tennessee, Thompson, Typhimurium, Uganda, Urbana, Virchow, Weltevreden, Worthington, Yoruba, monophasic variant of *Salmonella* Typhimurium (1,4,[5],12:i:-), 4,[5],12:d:-, 47:z4,z23:-, 4,12:i:- (not typhimurium))

The Check & Trace Salmonella 2.0 (CTS 2.0) was initially validated in 2022 for the confirmation of presumptive *Salmonella* isolated on NA and XLD, and the typing of 59 serovars. Later, in 2024, an extension study was performed where 47 additional serovars were added to the scope, resulting in a total of 106 serovars. The current report contains the original data in combination with the results collated from the extension study.

Criteria to be evaluated during the study are:

- Method Comparison Study (MCS)
 - o Inclusivity study

- Exclusivity study
- Interlaboratory Study (ILS)

Summarized, the conclusions on the Method Comparison study are:

- The observed inclusivity results for confirmation meet the acceptability limit for both media (NA and XLD) and both PCR systems (Biorad CFX 96 and CFX Opus 96): ID ≤ AL.
- The observed inclusivity results for typing meet the acceptability limit for both media (NA and XLD) and both PCR systems (Biorad CFX 96 and CFX Opus 96): ID ≤ AL.
- The observed exclusivity results for confirmation meet the acceptability limit for both media (NA and XLD) and both PCR systems (Biorad CFX 96 and CFX Opus 96): ED ≤ AL.
- The observed exclusivity results for typing meet the acceptability limit for both media (NA and XLD) and both PCR systems (Biorad CFX 96 and CFX Opus 96): ED ≤ AL.
- For confirmation 0,3% of the samples were repeated and 0% of the results were inconclusive. For typing 5,6% of the samples were repeated and 3,1% of the results were inconclusive.

Summarized, the conclusions on the Interlaboratory Study are:

- The observed inclusivity results for confirmation meet the acceptability limit: ID ≤ AL.
- The observed inclusivity results for typing meet the acceptability limit: ID ≤ AL.
- The observed exclusivity results for confirmation meet the acceptability limit: ED ≤ AL.
- The observed exclusivity results for typing meet the acceptability limit: ED ≤ AL.
- For confirmation 0,6% of the samples were repeated and 0% of the results were inconclusive. For typing 3,8% of the samples were repeated and 1,0% of the results were inconclusive.

This report presents the observed data and interpretations according to the ISO 16140-6:2019 standard and the most recent version of the MicroVal technical committee interpretations.

2 Method protocols

The Method Comparison Study was carried out using strains cultured from frozen cryoprotective beads. To mimic isolation of presumptive *Salmonella* colonies, cultures were streaked onto NA and XLD agar.

2.1 Reference method for confirmation

See the flow diagram of the reference method for confirmation in Annex A. In the flow diagram the entire ISO reference method is presented, but only the part from streaking onto XLD was included in the validation protocol.

2.2 Reference method for typing

See the flow diagram of the reference method for typing in Annex B.

2.3 Alternative method

See the flow diagram of the alternative method in Annex C.

See the CTS 2.0 kit insert in Annex D.

The alternative method principle is based on PCR. First of all a worklist is generated on the CTS 2.0 analysis portal. Bacterial specimens are collected from NA or XLD agar using a “CTS 2.0 colony sampler” included in the CTS 2.0 kit. The colony sampler is placed in 1,5 ml tube prefilled with 200 µl CTS 2.0 Sample Buffer. After resuspension, the tube is closed and transferred to a heating block pre-heated at 98°C. The tube is incubated for 10 minutes at 98°C and allowed to cool down to room temperature for at least 5 minutes. If samples are not used directly and analysis is delayed, they should be spun down briefly and stored at -20°C for a maximum of 6 months. Before further analysis samples from -20°C should be placed at room temperature for 15 minutes, vortexed and spun down briefly. 140 µl sample is transferred to a 1,5 ml tube prefilled with 35 µl CTS 2.0 PCR MasterMix and mixed by pipetting up and down 3 times. Then 25 µl sample/MasterMix specimen is added to each of 6 tubes of the CTS 2.0 PCR Reagent Strip. The strip is placed in the Biorad CFX 96 or CFX Opus 96 system and the amplification process is started.

The amplified DNA targets are detected using hydrolysis (TaqMan®) probes, labeled at one end with a fluorescent reporter dye (fluorophore) and at the other end with a quencher moiety. Probes labeled with different fluorophores are used to detect the various target sequences. The CTS 2.0 can detect a total of 27 DNA markers including 6 controls. Control markers will assess presence or absence of *Salmonella* and detect reaction failure.

The CTS 2.0 assay uses dedicated software for result calling in a 2-step process. In the first step absence and presence of each of the 27 DNA markers is established. This generates a unique presence/absence pattern for all DNA markers, i.e. genovar code or the “genetic fingerprint”. In a second step this “genetic fingerprint” is matched to a database containing the genetic fingerprints of many *Salmonella* serovars. If a match is found, the software will call a serovar result; if no match is found but *Salmonella* genus is confirmed a genovar result will be called. In Table 1 some examples are given on the presentation and interpretation of results.

Table 1. Presentation and interpretation of results

Result	Interpretation					
	Inclusivity strains (see 3.2)		Exclusivity strains (see 3.3)			
	Salmonella		Salmonella		non-Salmonella	
	Confirmation	Typing	Confirmation	Typing	Confirmation	Typing
"Salmonella XXX" ^{**}	IA*	IA*/ID* (depending on the serovar tested)	na	ED*	ED*	ED*
"Salmonella positive, Genovar XXXXXX" ^{** *}	IA*	Repeat test	na	EA*	ED*	ED*
"Salmonella Positive, inconclusive typing result"	IA*	Repeat test	na	Repeat test	ED*	Repeat test
"No salmonella"	ID*	ID*	na	ED*	EA*	EA*
"No DNA Detected"	Repeat test	Repeat test	na	Repeat test	Repeat test	Repeat test
"Reaction not OK" ^{****}	Repeat test	Repeat test	na	Repeat test	Repeat test	Repeat test

* IA: inclusivity agreement, ID: inclusivity deviation, EA: exclusivity agreement, ED: exclusivity deviation

**In some cases the test is not able to differentiate between two serovars and the test may yield two results (i.e. Salmonella "A" or "B") due to a genetic overlap on the test.

***Genovar scores can arise due to either an undefined pattern or a misinterpretation of one of the markers by the software.

**** "Reaction not OK" results arise because of missing internal controls

In case the interpretation of the rerun is "Repeat test", the result is interpreted as inconclusive and an additional strain is added to reach the minimum number of strains required.

3 Method Comparison Study

3.1 Sample preparation

All strains were cultured from frozen cryoprotective beads onto NA and XLD agar to mimic isolation of presumptive *Salmonella* colonies. First each strain was resuscitated from frozen cryoprotective beads on NA. The plates were incubated at 37±1°C for 24±3h. Then the strain was streaked onto NA and XLD agar. The plates were incubated at 37±1°C for 24±3h.

3.2 Inclusivity study

A total of 579 *Salmonella* spp. strains (of which 559 *S. enterica* subsp. *enterica* strains) were included. The overview of selected strains is presented in Table 2.

Table 2. Overview selected strains for the inclusivity study

Strains	Confirmation (reference method: ISO 6579-1:2017)	Typing (reference method: ISO/TR 6579-3:2014)
<i>S. bongori</i>	3	5
<i>S. enterica</i> subsp. <i>salamae</i>	3	0
<i>S. enterica</i> subsp. <i>arizonae</i>	3	0
<i>S. enterica</i> subsp. <i>diarizonae</i>	3	0
<i>S. enterica</i> subsp. <i>houtenae</i>	3	0
<i>S. enterica</i> subsp. <i>indica</i>	3	0
<i>S. enterica</i> subsp. <i>enterica</i> (target serovars)	132 (59 serovars)	559 (105 serovars* + additional strains)
Total	150	564

* Abaetetuba, Aberdeen, Abortusovis, Adelaide, Agama, Agona, Alachua, Albany, Altona, Amsterdam, Anatum, Banana, Bareilly, Berta, Blockey, Bovismorbificans, Bracknell, Braenderup, Brandenburg, Bredeney, Cerro, Chester, Chailey, Choleraesuis, Corvallis, Cubana, Derby, Dublin, Eastbourne, Emek, Enteritidis, Fresno, Gallinarum Gallinarum, Gallinarum Pullorum, Gaminara, Give, Gloucester, Goldcoast, Hadar, Haifa, Hartford, Havana, Heidelberg, Hvittingfoss, Idikan, Indiana, Infantis, Isangi, Javiana, Jerusalem, Johannesburg, Kapemba, Kedougou, Kentucky, Kiambu, Kingston, Kottbus, Lexington, Liverpool, Litchfield, Livingstone, Llandoff, London, Manhattan, Mbandaka, Meleagridis, Minnesota, Molade, Montevideo, Muenchen, Muenster, Newport, Nottingham, Offa, Ohio, Oranienburg, Ordonez, Orion, Ouakam, Panama, Paratyphi B biovar Java, Poona, Putten, Reading, Rissen, Saintpaul, Sandiego, Schwarzengrund, Senftenberg, Soerenga, Stanley, Taksony, Tennessee, Thompson, Typhimurium, Uganda, Urbana, Virchow, Weltevreden, Worthington, Yoruba, monophasic variant of *Salmonella* Typhimurium (1,4,[5],12:i:-), 4,[5],12:d:-, 47:z4,z23:-, 4,12:i:- (not typhimurium)

The selected strains (see Annex E) are part of an (inter)national culture collection or identified using the reference method. For the typing part of the study the required number of strains was not available for all serotypes. Alternative strains from other serotypes were added to reach the minimum number of strains required. The overview of missing and supplemented strains is presented in Table 3.

Table 3. Overview of missing and supplemented strains for typing

Missing strains	Supplemented strains
2x Abortusovis	Blockley (CTS_850)
2x Adelaide	Cerro (CTS_862)
1x Banana	Chester (CTS_866)
1x Emek	Dublin (CTS_880)
1x Gallinarum Pullorum	Hadar (CTS_534)
2x Hartford	Jerusalem (CTS_1030)
1x Hvittingfoss	Kottbus (CTS_942)
1x Orion	Llandoff (CTS_955)
	Mbandaka (CTS_958)
	Minnesota (CTS_962)
	Nottingham (CTS_974)
	Oranienburg (CTS_982)
	Hadar (CTS_535)
	Hadar (CTS_510)
	Jerusalem (CTS_1031)
	Oranienburg (CTS_983)

From NA and XLD any colonies were used. In case of the absence of typical colonies on XLD agar (colonies with black centre and a lightly transparent zone of reddish colour or pink colonies with a darker pink centre or yellow colonies with or without blackening), atypical colonies were used and a note was made.

Colonies were tested with the alternative method only as the required data for the reference method was already available. In order to test the effect of delayed analysis, 20% of the total number of strains was tested including storage at -20°C for at least one week. As two PCR systems can be used for the amplification process in the alternative method (Biorad CFX 96 or CFX Opus 96), each strain was tested with both systems.

3.3 Exclusivity study

A total of 179 non-target strains was included. The overview of selected strains is presented in Table 4.

Table 4. Overview selected strains for the exclusivity study

Strains	Confirmation (reference method: ISO 6579-1:2017)	Typing (reference method: ISO/TR 6579-3:2014)
Non-target genus (with target family <i>Enterobacteriaceae</i>)	77	26
Non-target genus	25	0
Non-target serovar (within target subspecies)	0	77
Total	102	103

The selected strains (see Annex E) are part of an (inter)national culture collection or identified using the reference method (*Salmonella* spp.) or MALDI-TOF or Whole Genome Sequencing (non *Salmonella* spp.).

From NA and XLD any colonies were used. In case of the absence of typical colonies on XLD agar (colonies with black centre and a lightly transparent zone of reddish colour or pink colonies with a darker pink centre or yellow colonies with or without blackening), atypical colonies were used and a note was made. In case of no growth on XLD agar, no colonies were tested and a note was made.

Colonies were tested with the alternative method only. As two PCR systems can be used for the amplification process in the alternative method (Biorad CFX 96 or CFX Opus 96), each strain was tested with both systems.

3.4 Results

All strains were able to grow on NA. The majority of the strains showed typical growth on XLD, but some deviations were found (see Table 5).

Table 5. Summary of observed colonies on XLD

	Atypical colonies on XLD	No growth on XLD
Inclusivity	0	0
Exclusivity	5	6

Some (strain dependent) limitations were observed.

For confirmation 3 tests were repeated (0,3%) due to invalid results ("No DNA detected" or "Reaction not OK").
For typing 150 tests were repeated (5,6%) due to invalid results ("No DNA detected" or "Reaction not OK") or inconclusive typing results/genovar codes for inclusivity strains.

For typing 260 "A or B" or "A or B or C" results were found (11,5%). In these cases the test was not able to differentiate between two or three serovars and the test gave two results (i.e. Salmonella "A" or "B") due to a genetic overlap on the test.

For confirmation 0 inconclusive results were found (0%). For typing 30 strains gave inconclusive results at one or more conditions (3,1%). Additional strains (34x inclusivity, 4x exclusivity) were added to reach the minimum number of valid results required*:

Inclusivity

- Adelaide
- Agona
- Banana
- Blockley
- Bovismorbificans
- Cerro 2x
- Chester
- Dublin 2x
- Fresno
- Goldcoast
- Hadar 4x
- Heidelberg
- Javiana
- Jerusalem 2x
- Lexington
- Montevideo
- Nottingham
- Offa

- Orion
- Oranienburg 2x
- Panama
- Paratyphi B var. Java
- Poona
- San Diego 2x
- Stanley
- Weltevreden

Exclusivity (non-target serovar)

- Eboko
- Potsdam

Exclusivity (non-target genus)

- *Escherichia coli* 2x

A summary of the observed limitations is given in Table 6.

Table 6. Summary of observed limitations

Medium	PCR system	Repeated tests	“A or B”	Inconclusive result
NA	Biorad CFX 96	36	66	21
XLD		46	65	23
NA	CFX Opus 96	31	64	20
XLD		37	65	22

All results are given in Annex F. A summary of the results is given in Table 7 for confirmation and Table 8 for typing.

Table 7. Summary of results for confirmation

	Number of strains	Medium	PCR system	IA*	ID*	EA*	ED*
Inclusivity	150	NA	Biorad CFX 96	150	0	na	na
		XLD		150	0		
		NA	CFX Opus 96	150	0		
		XLD		150	0		
Exclusivity	102 (100 + 2)	NA	Biorad CFX 96	na	na	102	0
		XLD				96**	0
		NA	CFX Opus 96			102	0
		XLD				96**	0

* IA: inclusivity agreement, ID: inclusivity deviation, EA: exclusivity agreement, ED: exclusivity deviation

** For some strains there was no growth on XLD (see Table 5)

No discrepancies between this data and the alternative method result were found.

Table 8. Summary of results for typing

	Number of strains	Medium	PCR system	IA*	ID*	EA*	ED*
Inclusivity	564 (530 + 34)	NA	Biorad CFX 96	543**	0	na	na
		XLD		541**	0		
		NA	CFX Opus 96	548**	2		
		XLD		543**	1		
Exclusivity	103 (100 + 3)	NA	Biorad CFX 96	na	na	103	0
		XLD				101**	0
		NA	CFX Opus 96			103	0
		XLD				102**	0

* IA: inclusivity agreement, ID: inclusivity deviation, EA: exclusivity agreement, ED: exclusivity deviation

** For some strains there was no growth on XLD (see Table 5). Some inconclusive results were found (See Table 6). Some strains showed initially sufficient results, but had to be repeated after a software update.

For 2 strains an ID was found.

Salmonella enterica enterica Llandoff (CTS_954) gave “*Salmonella* Poona” on NA with CFX Opus 96. *Salmonella enterica enterica* Reading (CTS_1002) gave “*Salmonella* Chester” on NA and XLD with CFX Opus 96. These strains are genetically very similar. Due to an erroneous result for one of the 21 typing markers, the incorrect serovar is given.

Evaluation of the results is given in Table 9 for confirmation and Table 10 for typing.

Table 9. Evaluation of results for confirmation

	Medium	PCR system	AL*	ID*	ID* ≤ AL*	ED*	ED* ≤ AL*	Evaluation
Inclusivity	NA	Biorad CFX 96	1	0	0 ≤ 1	na	na	Accepted
	XLD			0	0 ≤ 1			Accepted
	NA	CFX Opus 96		0	0 ≤ 1			Accepted
	XLD			0	0 ≤ 1			Accepted
Exclusivity	NA	Biorad CFX 96	2	na	na	0	0 ≤ 2	Accepted
	XLD					0	0 ≤ 2	Accepted
	NA	CFX Opus 96				0	0 ≤ 2	Accepted
	XLD					0	0 ≤ 2	Accepted

* AL: acceptability limit, ID: inclusivity deviation, ED: exclusivity deviation

Table 10. Evaluation of results for typing

	Medium	PCR system	AL*	ID*	ID* ≤ AL*	ED*	ED* ≤ AL*	Evaluation
Inclusivity	NA	Biorad CFX 96	3	0	0 ≤ 3	na	na	Accepted
	XLD			0	0 ≤ 3			Accepted
	NA	CFX Opus 96		2	2 ≤ 3			Accepted
	XLD			1	1 ≤ 3			Accepted
Exclusivity	NA	Biorad CFX 96	2	na	na	0	0 ≤ 2	Accepted
	XLD					0	0 ≤ 2	Accepted
	NA	CFX Opus 96				0	0 ≤ 2	Accepted
	XLD					0	0 ≤ 2	Accepted

* AL: acceptability limit, ID: inclusivity deviation, ED: exclusivity deviation

3.5 Conclusion Method Comparison Study

The observed inclusivity results for confirmation meet the acceptability limit for both media (NA and XLD) and both PCR systems (Biorad CFX 96 and CFX Opus 96): ID $\leq$ AL.

The observed inclusivity results for typing meet the acceptability limit for both media (NA and XLD) and both PCR systems (Biorad CFX 96 and CFX Opus 96): ID $\leq$ AL.

The observed exclusivity results for confirmation meet the acceptability limit for both media (NA and XLD) and both PCR systems (Biorad CFX 96 and CFX Opus 96): ED $\leq$ AL.

The observed exclusivity results for typing meet the acceptability limit for both media (NA and XLD) and both PCR systems (Biorad CFX 96 and CFX Opus 96): ED $\leq$ AL.

For confirmation 0,3% of the samples were repeated and 0% of the results were inconclusive. For typing 5,6% of the samples were repeated and 3,1% of the results were inconclusive.

4 Interlaboratory Study

The Interlaboratory Study is a study performed by multiple laboratories testing identical samples at the same time. The Interlaboratory study was part of the initial validation study in 2022. At that time, the scope of the validation was the confirmation of presumptive Salmonella isolated on NA and XLD, and the typing of 59 serovars. Based on this scope, exclusivity strains were chosen for the Interlaboratory study. In 2024, an extension study was performed for the addition of 47 Salmonella serotypes to the scope of the validation, containing amongst others *Salmonella enterica* subsp. *enterica* serovar *Emek* and *Salmonella enterica* subsp. *enterica* serovar *Hartford*. While these two serotypes were originally part of the exclusivity strain panel in the Interlaboratory study, they are now considered inclusivity strains. During a MicroVal Technical Committee meeting in September 2025, it was agreed that this change was acceptable and that no replacing exclusivity strains would be required to complete the ILS data. Below, the original results are shown, demonstrating correct identification of these two strains (S4 & S24).

4.1 Study organisation

4.1.1 Collaborators

Samples were sent to 13 organizations; 15 collaborators were involved in the study (See Annex G).

4.1.2 Strains

30 strains were used for the ILS: 18 inclusivity strains (Table 11) and 12 exclusivity strains (Table 12).

Table 11 – Inclusivity strains

Confirmation - Number	Typing - Number	Genus	Species	Subspecies	Serotype	Strain
1	-	<i>Salmonella</i>	<i>bongori</i>	-	-	CTS_003
2	-	<i>Salmonella</i>	<i>enterica</i>	<i>arizonae</i>	-	CTS_007
3	1	<i>Salmonella</i>	<i>enterica</i>	<i>enterica</i>	Anatum	CTS_039
4	2	<i>Salmonella</i>	<i>enterica</i>	<i>enterica</i>	Braenderup	CTS_053
5	3	<i>Salmonella</i>	<i>enterica</i>	<i>enterica</i>	Enteritidis	CTS_098
6	4	<i>Salmonella</i>	<i>enterica</i>	<i>enterica</i>	Hadar	CTS_121
7	5	<i>Salmonella</i>	<i>enterica</i>	<i>enterica</i>	Heidelberg	CTS_130
8	6	<i>Salmonella</i>	<i>enterica</i>	<i>enterica</i>	Infantis	CTS_140
9	7	<i>Salmonella</i>	<i>enterica</i>	<i>enterica</i>	Mbandaka	CTS_169
10	8	<i>Salmonella</i>	<i>enterica</i>	<i>enterica</i>	Minnesota	CTS_180
11	9	<i>Salmonella</i>	<i>enterica</i>	<i>enterica</i>	Montevideo	CTS_189
12	10	<i>Salmonella</i>	<i>enterica</i>	<i>enterica</i>	Newport	CTS_204
13	11	<i>Salmonella</i>	<i>enterica</i>	<i>enterica</i>	Ouakam	CTS_224
14	12	<i>Salmonella</i>	<i>enterica</i>	<i>enterica</i>	Reading	CTS_248
15	13	<i>Salmonella</i>	<i>enterica</i>	<i>enterica</i>	Senftenberg	CTS_270
16	14	<i>Salmonella</i>	<i>enterica</i>	<i>enterica</i>	Typhimurium	CTS_289
-	15	<i>Salmonella</i>	<i>enterica</i>	<i>enterica</i>	Virchow	CTS_299
-	16	<i>Salmonella</i>	<i>enterica</i>	<i>enterica</i>	monophasic variant of <i>Salmonella</i>	CTS_314

					Typhimurium (1,4,[5],12:i:-)	
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Table 12 – Exclusivity strains

Confirmation - Number	Typing - Number	Genus	Species	Subspecies	Serotype	Strain
1	1	<i>Buttiauxella</i>	<i>agrestis</i>	-	-	CTS_324
2	-	<i>Citrobacter</i>	<i>freundii</i>	-	-	CTS_331
3	2	<i>Cronobacter</i>	<i>sakazakii</i>	-	-	CTS_338
4	3	<i>Enterobacter</i>	<i>aerogenes</i>	-	-	CTS_339
5	-	<i>Escherichia</i>	<i>coli</i>	-	-	CTS_357
6	4	<i>Klebsiella</i>	<i>aerogenes</i>	-	-	CTS_364
7	-	<i>Shigella</i>	<i>flexneri</i>	-	-	CTS_391
8	-	<i>Hafnia</i>	<i>alvei</i>	-	-	CTS_408
-	5	<i>Salmonella</i>	<i>enterica</i>	<i>enterica</i>	Cotham	CTS_512-1
-	6	<i>Salmonella</i>	<i>enterica</i>	<i>enterica</i>	Emek	CTS_448
-	7	<i>Salmonella</i>	<i>enterica</i>	<i>enterica</i>	Hartford	CTS_455
-	8	<i>Salmonella</i>	<i>enterica</i>	<i>enterica</i>	Jangwani	CTS_460

4.1.3 Samples

Each collaborator received 30 samples (S1 – S30). The blind coded NA slants were inoculated on Tuesday 11/10/2022 and incubated at 37°C for 18-24 hours.

Table 13 – Sample codification

Sample	Genus	Species	Subspecies	Serotype
S1	<i>Salmonella</i>	<i>bongori</i>	-	-
S2	<i>Salmonella</i>	<i>enterica</i>	<i>enterica</i>	Virchow
S3	<i>Salmonella</i>	<i>enterica</i>	<i>enterica</i>	Cotham
S4	<i>Salmonella</i>	<i>enterica</i>	<i>enterica</i>	Hartford
S5	<i>Buttiauxella</i>	<i>agrestis</i>	-	-
S6	<i>Salmonella</i>	<i>enterica</i>	<i>enterica</i>	Anatum
S7	<i>Cronobacter</i>	<i>sakazakii</i>	-	-
S8	<i>Salmonella</i>	<i>enterica</i>	<i>enterica</i>	Enteritidis
S9	<i>Salmonella</i>	<i>enterica</i>	<i>enterica</i>	Montevideo
S10	<i>Escherichia</i>	<i>coli</i>	-	-
S11	<i>Salmonella</i>	<i>enterica</i>	<i>enterica</i>	Heidelberg
S12	<i>Shigella</i>	<i>flexneri</i>	-	-
S13	<i>Salmonella</i>	<i>enterica</i>	<i>enterica</i>	Mbandaka
S14	<i>Salmonella</i>	<i>enterica</i>	<i>enterica</i>	Ouakam
S15	<i>Salmonella</i>	<i>enterica</i>	<i>enterica</i>	Senftenberg
S16	<i>Salmonella</i>	<i>enterica</i>	<i>enterica</i>	monophasic variant of <i>Salmonella</i> Typhimurium (1,4,[5],12:i:-)
S17	<i>Salmonella</i>	<i>enterica</i>	<i>enterica</i>	Minnesota
S18	<i>Salmonella</i>	<i>enterica</i>	<i>enterica</i>	Jangwani
S19	<i>Salmonella</i>	<i>enterica</i>	<i>enterica</i>	Infantis
S20	<i>Hafnia</i>	<i>alvei</i>	-	-
S21	<i>Salmonella</i>	<i>enterica</i>	<i>enterica</i>	Typhimurium
S22	<i>Salmonella</i>	<i>enterica</i>	<i>enterica</i>	Reading
S23	<i>Salmonella</i>	<i>enterica</i>	<i>enterica</i>	Newport
S24	<i>Salmonella</i>	<i>enterica</i>	<i>enterica</i>	Emek
S25	<i>Salmonella</i>	<i>enterica</i>	<i>enterica</i>	Hadar
S26	<i>Klebsiella</i>	<i>aerogenes</i>	-	-
S27	<i>Enterobacter</i>	<i>aerogenes</i>	-	-
S28	<i>Salmonella</i>	<i>enterica</i>	<i>enterica</i>	Braenderup
S29	<i>Salmonella</i>	<i>enterica</i>	<i>arizonae</i>	-
S30	<i>Citrobacter</i>	<i>freundii</i>	-	-

4.1.4 Logistic conditions

Samples and materials were placed in isothermal boxes, but were not refrigerated during transport. A temperature probe was added to the package in order to register the temperature profile during transport, delivery and storage until analysis. The packages were dispatched on Wednesday 12/10/2022 and shipped in 28 hours to the different organizations. No problem was encountered during the transport or at receipt of the samples. All samples were delivered on time and in appropriate conditions. Upon receipt, the temperature of the "Temperature Control" was measured immediately (except by CTS 2.0-9 and CTS 2.0-11), temperatures during shipment and at receipt were all correct. Only for CTS 2.0-11 the temperature during transport is not known, because this collaborator did not send the temperature records. After receipt, the packages were stored at 2°C-8°C until analysis. The sample receipt information and temperature measured by the temperature probe are shown in Table 14.

Table 14 - Sample receipt information and temperature

Collaborator	Receipt date	Receipt time	State of the package and samples at receipt	Temperature of "Temperature Control" (°C)	Maximum temperature measured by the temperature probe from dispatch until analysis (°C)
CTS 2.0-1	13-10-2022	14:30	No comments	17,0	19,4
CTS 2.0-2	13-10-2022	12:15	No comments	17,0	19,1
CTS 2.0-3	13-10-2022	16:00	No comments	13,6	20,9
CTS 2.0-4	13-10-2022	13:30	No comments	17,4	20,3
CTS 2.0-5	13-10-2022	13:30	No comments	17,4	19,9
CTS 2.0-6	13-10-2022	15:00	No comments	16,5	20,9
CTS 2.0-7	13-10-2022	15:00	No comments	16,9	17,2
CTS 2.0-8	13-10-2022	14:30	1x LDC medium empty	17,1	19,5
CTS 2.0-9	13-10-2022	11:00	1x cap urea missing	-	20,0
CTS 2.0-10	13-10-2022	12:30	No comments	17,1	18,2
CTS 2.0-11	13-10-2022	14:00	No comments	-	Unknown
CTS 2.0-12	13-10-2022	12:30	No comments	11,0	17,3
CTS 2.0-13	13-10-2022	14:00	No comments	6,7	22,1
CTS 2.0-14	13-10-2022	15:30	No comments	13,3	16,8
CTS 2.0-15	13-10-2022	14:15	No comments	10,6	19,9

4.1.5 Analyses

All collaborators and the expert laboratory carried out the analyses on 19/10/2022 and rerun on 20/10/2022 (except for CTS 2.0-1, CTS 2.0-4, CTS 2.0-5 and CTS 2.0-11) with the reference and alternative method. CTS 2.0-1 carried out the rerun on 21/10/2022. CTS 2.0-4 and CTS 2.0-5 carried out analysis of S1-S16 on 19/10/2022, analysis of S17-S30 on 20/10/2022 and rerun on 21/10/2022. CTS 2.0-11 did not report any results.

An overview of the reference method and PCR system used by each collaborator, is given in Table 15.

Table 15 – Reference method and PCR system used

Collaborator	Reference method	PCR system
CTS 2.0-1	TSI/urea/LDC (MALDI-TOF (MicroVal certificate 2017LR73) is routinely used as reference method)	Biorad CFX 96
CTS 2.0-2	MALDI-TOF (MicroVal certificate 2017LR73)*	Biorad CFX 96
CTS 2.0-3	TSI/urea/LDC (no routinely used reference method in place)	Biorad CFX 96
CTS 2.0-4	TSI/urea/LDC*	Biorad CFX 96
CTS 2.0-5	TSI/urea/LDC*	Biorad CFX 96
CTS 2.0-6	TSI/urea/LDC (API20E galery is routinely used as reference method)	Biorad CFX 96
CTS 2.0-7	TSI/urea/LDC (API20E galery is routinely used as reference method)	Biorad CFX 96
CTS 2.0-8	TSI/urea/LDC (API20E galery is routinely used as reference method)	CFX Opus 96
CTS 2.0-9	TSI/urea/LDC*	CFX Opus 96
CTS 2.0-10	TSI/urea/LDC*	Biorad CFX 96
CTS 2.0-11	TSI/urea/LDC*	Biorad CFX 96
CTS 2.0-12	Microgen MID-64 GN-ID A Gram-Panels*	CFX Opus 96
CTS 2.0-13	API 20E biochemical confirmation	CFX Opus 96
CTS 2.0-14	TSI/urea/LDC*	Biorad CFX 96
CTS 2.0-15	TSI/urea/LDC*	Biorad CFX 96

* This method is routinely used

4.2 Results

The raw data are given in Annex H. All strains grew on XLD, so all colonies used for analysis with the alternative method were taken from the XLD plate.

4.2.1 MicroVal Expert laboratory results

The results obtained by the expert laboratory were 100% correct. For confirmation 16/16 strains were confirmed correctly in the inclusivity part by both the reference and alternative method and 8/8 strains were confirmed correctly in the exclusivity part by both the reference and alternative method. For typing 16/16 strains were identified correctly in the inclusivity part by the alternative method and 8/8 strains were identified correctly in the exclusivity part by the alternative method.

4.2.2 Results obtained by the collaborative laboratories

Fifteen collaborators participated in the study, but one collaborator (CTS 2.0-11) did not report any results. Data from one collaborator (CTS 2.0-9) was disregarded, because analysis of the data was not done following the steps described in the IFU. CTS 2.0-9 did not connect the PCR system to the computer and therefore there was no access to CTS 2.0 Analysis portal. With help from the method developer it was possible to analyse the data, so the raw data is included in Annex H, but not used for interpretation. Finally, there were 13 sets of data to be analysed with at least 10 valid results per strain. The results are given in Table 16 for confirmation and Table 17 for typing.

Table 16 – Results for confirmation

Collaborator	Number of correctly confirmed strains in the inclusivity part		Number of correctly non-confirmed strains in the exclusivity part	
	Reference method	Alternative method	Reference method	Alternative method
CTS 2.0-1	16/16	16/16	8/8	8/8
CTS 2.0-2	16/16	16/16	8/8	8/8
CTS 2.0-3	16/16	16/16	7/8	8/8
CTS 2.0-4	16/16	16/16	8/8	8/8
CTS 2.0-5	16/16	16/16	8/8	8/8
CTS 2.0-6	16/16	16/16	8/8	8/8
CTS 2.0-7	16/16	16/16	8/8	8/8
CTS 2.0-8	16/16	16/16	7/8	8/8
CTS 2.0-10	16/16	16/16	8/8	8/8
CTS 2.0-12	16/16	16/16	8/8	8/8
CTS 2.0-13	16/16	16/16	8/8	8/8
CTS 2.0-14	16/16	16/16	8/8	8/8
CTS 2.0-15	16/16	16/16	8/8	8/8
Total	208/208	208/208*	102/104	104/104**

* 1 sample was repeated (0,5%), 0 inconclusive results were found

** 1 sample was repeated (1,0%), 0 inconclusive results were found

For the reference method some inconclusive results were reported by the collaborators. This was probably due to the fact they did not have prior experience (see Table 15). These results were re-analysed using the reported results per tube (and in some cases pictures provided).

Table 17 – Results for typing

Collaborator	Number of correctly identified strains in the inclusivity part		Number of correctly identified strains in the exclusivity part	
	Reference method	Alternative method	Reference method	Alternative method
CTS 2.0-1	na	16/16	na	8/8
CTS 2.0-2	na	16/16	na	8/8
CTS 2.0-3	na	16/16	na	7/8
CTS 2.0-4	na	16/16	na	8/8
CTS 2.0-5	na	15/16	na	8/8
CTS 2.0-6	na	16/16	na	8/8
CTS 2.0-7	na	16/16	na	8/8
CTS 2.0-8	na	15/16	na	8/8
CTS 2.0-10	na	16/16	na	8/8
CTS 2.0-12	na	16/16	na	8/8
CTS 2.0-13	na	16/16	na	8/8
CTS 2.0-14	na	16/16	na	8/8
CTS 2.0-15	na	16/16	na	8/8
Total	na	206/208*	na	103/104**

* 11 samples were repeated (4,9%), 2 inconclusive results were found (0,9%, 1x S14, 1x S15)

** 1 sample was repeated (1,0%) in addition to the expected 52 samples, 1 inconclusive result was found (1,0% , 1x S3)

A summary of the results is given in Table 18 for confirmation and Table 19 for typing.

Table 18 – Summary of results for confirmation

	Number of strains	IA*	ID*	EA*	ED*
Inclusivity	16	208	0	na	na
Exclusivity	8	na	na	104	0

* IA: inclusivity agreement, ID: inclusivity deviation, EA: exclusivity agreement, ED: exclusivity deviation

Table 19 – Summary of results for typing

	Number of strains	IA*	ID*	EA*	ED*
Inclusivity	16	206**	0	na	na
Exclusivity	8	na	na	103***	0

* IA: inclusivity agreement, ID: inclusivity deviation, EA: exclusivity agreement, ED: exclusivity deviation

** 2 inconclusive results (0,9%)

*** 1 inconclusive result (1,0%)

Evaluation of the results is given in Table 20 for confirmation and Table 21 for typing.

Table 20 – Evaluation of the results for confirmation

	AL*	ID*	ID ≤ AL	ED*	ED ≤ AL	Evaluation
Inclusivity	3	0	0 ≤ 3	na	na	Accepted
Exclusivity	3	na	na	0	0 ≤ 3	Accepted

* AL: acceptability limit, ID: inclusivity deviation, ED: exclusivity deviation

Table 21 – Evaluation of the results for typing

	AL*	ID*	ID ≤ AL	ED*	ED ≤ AL	Evaluation
Inclusivity	3	0	0 ≤ 3	na	na	Accepted
Exclusivity	3	na	na	0	0 ≤ 3	Accepted

* AL: acceptability limit, ID: inclusivity deviation, ED: exclusivity deviation

4.3 Conclusion Interlaboratory Study

The observed inclusivity results for confirmation meet the acceptability limit: ID ≤ AL.

The observed inclusivity results for typing meet the acceptability limit: ID ≤ AL.

The observed exclusivity results for confirmation meet the acceptability limit: ED ≤ AL.

The observed exclusivity results for typing meet the acceptability limit: ED ≤ AL.

For confirmation 0,6% of the samples were repeated and 0% of the results were inconclusive. For typing 3,8% of the samples were repeated and 1,0% of the results were inconclusive.

5 Conclusions

Overall, the conclusions for the Method Comparison Study are:

- The observed inclusivity results for confirmation meet the acceptability limit for both media (NA and XLD) and both PCR systems (Biorad CFX 96 and CFX Opus 96): ID ≤ AL.
- The observed inclusivity results for typing meet the acceptability limit for both media (NA and XLD) and both PCR systems (Biorad CFX 96 and CFX Opus 96): ID ≤ AL.
- The observed exclusivity results for confirmation meet the acceptability limit for both media (NA and XLD) and both PCR systems (Biorad CFX 96 and CFX Opus 96): ED ≤ AL.
- The observed exclusivity results for typing meet the acceptability limit for both media (NA and XLD) and both PCR systems (Biorad CFX 96 and CFX Opus 96): ED ≤ AL.
- For confirmation 0,3% of the samples were repeated and 0% of the results were inconclusive. For typing 5,6% of the samples were repeated and 3,1% of the results were inconclusive.

The Interlaboratory Study conclusions are:

- The observed inclusivity results for confirmation meet the acceptability limit: ID ≤ AL.
- The observed inclusivity results for typing meet the acceptability limit: ID ≤ AL.
- The observed exclusivity results for confirmation meet the acceptability limit: ED ≤ AL.
- The observed exclusivity results for typing meet the acceptability limit: ED ≤ AL.
- For confirmation 0,6% of the samples were repeated and 0% of the results were inconclusive. For typing 3,8% of the samples were repeated and 1,0% of the results were inconclusive.

Check & Trace Salmonella 2.0 (CTS 2.0) is considered equivalent to the ISO standard (ISO 6579-1:2017) for the confirmation of presumptive Salmonella spp. isolated on non selective NA and selective XLD.

Check & Trace Salmonella 2.0 (CTS 2.0) is considered equivalent to the ISO standard (ISO/TR 6579-3:2014) for typing of 106 Salmonella serovars (Abaetetuba, Aberdeen, Abortusovis, Adelaide, Agama, Agona, Alachua, Albany, Altona, Amsterdam, Anatum, Banana, Bareilly, Berta, Blockey, Bovismorbificans, Bracknell, Braenderup, Brandenburg, Bredeney, Cerro, Chester, Chailey, Choleraesuis, Corvallis, Cubana, Derby, Dublin, Eastbourne, Emek, Enteritidis, Fresno, Gallinarum Gallinarum, Gallinarum Pullorum, Gaminara, Give, Gloucester, Goldcoast, Hadar, Haifa, Hartford, Havana, Heidelberg, Hvittingfoss, Idikan, Indiana, Infantis, Isangi, Javiana, Jerusalem, Johannesburg, Kapemba, Kedougou, Kentucky, Kiambu, Kingston, Kottbus, Lexington, Liverpool, Litchfield, Livingstone, Llandoff, London, Manhattan, Mbandaka, Meleagridis, Minnesota, Molade, Montevideo, Muenchen, Muenster, Newport, Nottingham, Offa, Ohio, Oranienburg, Ordonez, Orion, Ouakam, Panama, Paratyphi B biovar Java, Poona, Putten, Reading, Rissen, Saintpaul, Salmonella Bongori, Sandiego, Schwarzengrund, Senftenberg, Soerenga, Stanley, Taksony, Tennessee, Thompson, Typhimurium, Uganda, Urbana, Virchow, Weltevreden, Worthington, Yoruba, monophasic variant of Salmonella Typhimurium (1,4,[5],12:i:-), 4,[5],12:d:-, 47:z4,z23:-, 4,12:i:- (not typhimurium))

Date, 07/10/2025

Kirsten van Kooten MSc
Eurofins WFC Analytics

6 References

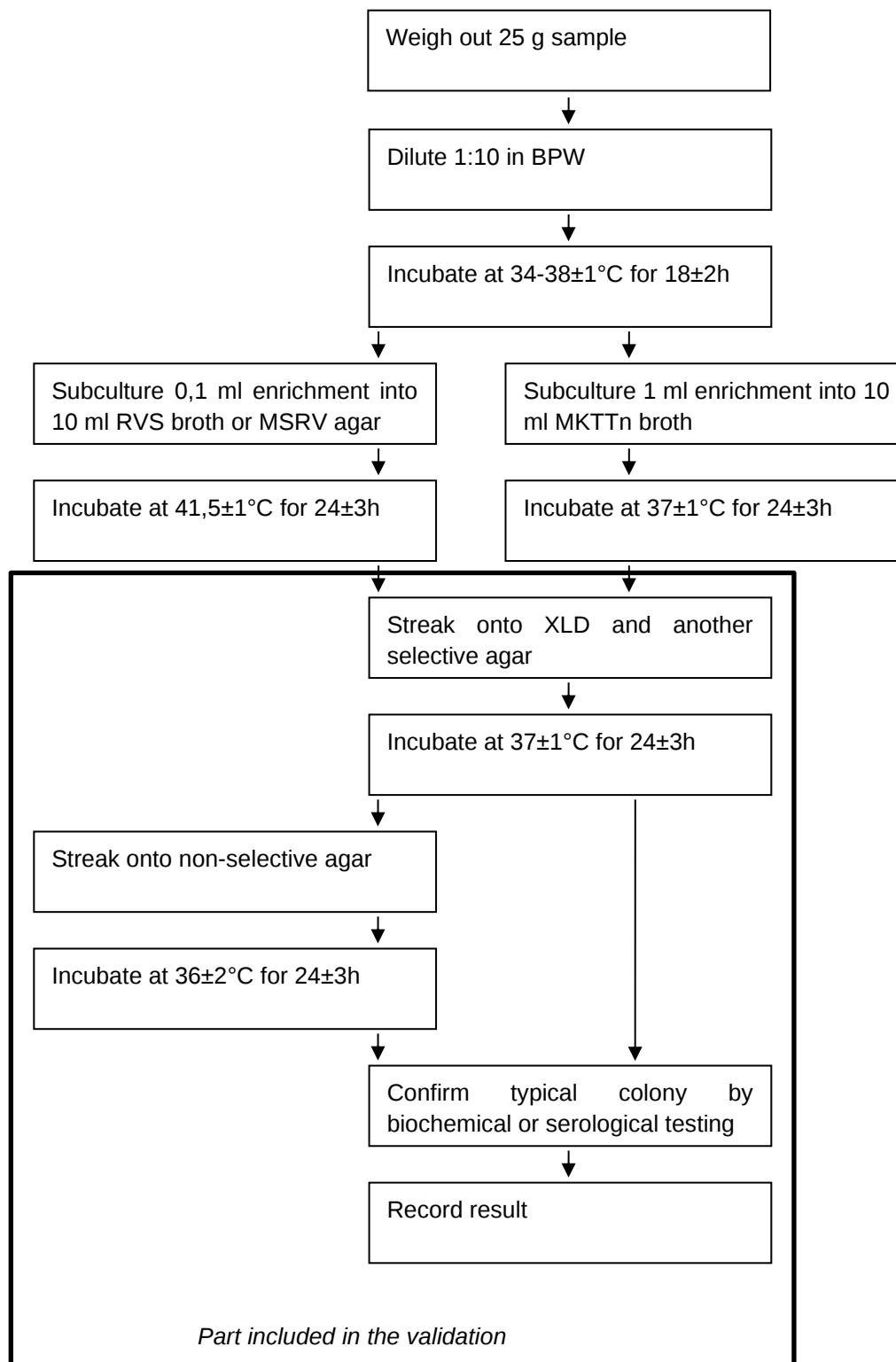
ISO 6579-1:2017, Microbiology of the food chain – Horizontal method for detection, enumeration and serotyping of Salmonella – Part 1: Detection of Salmonella spp.

ISO/TR 6579-3:2014, Microbiology of the food chain – Horizontal method for detection, enumeration and serotyping of Salmonella – Part 3: Guidelines for serotyping Salmonella spp.

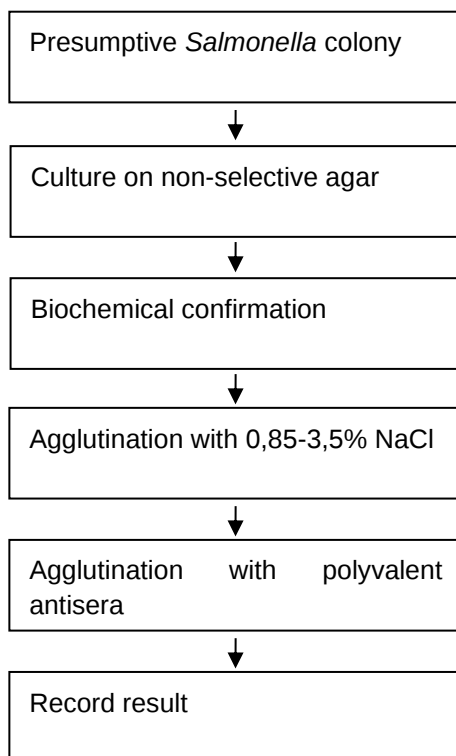
ISO 16140-1:2016: Microbiology of the food chain – Method validation – Part 1: Vocabulary

ISO 16140-6:2016: Microbiology of the food chain – Method validation – Part 6: Protocol for the validation of alternative (proprietary) methods for microbiological confirmation and typing procedures

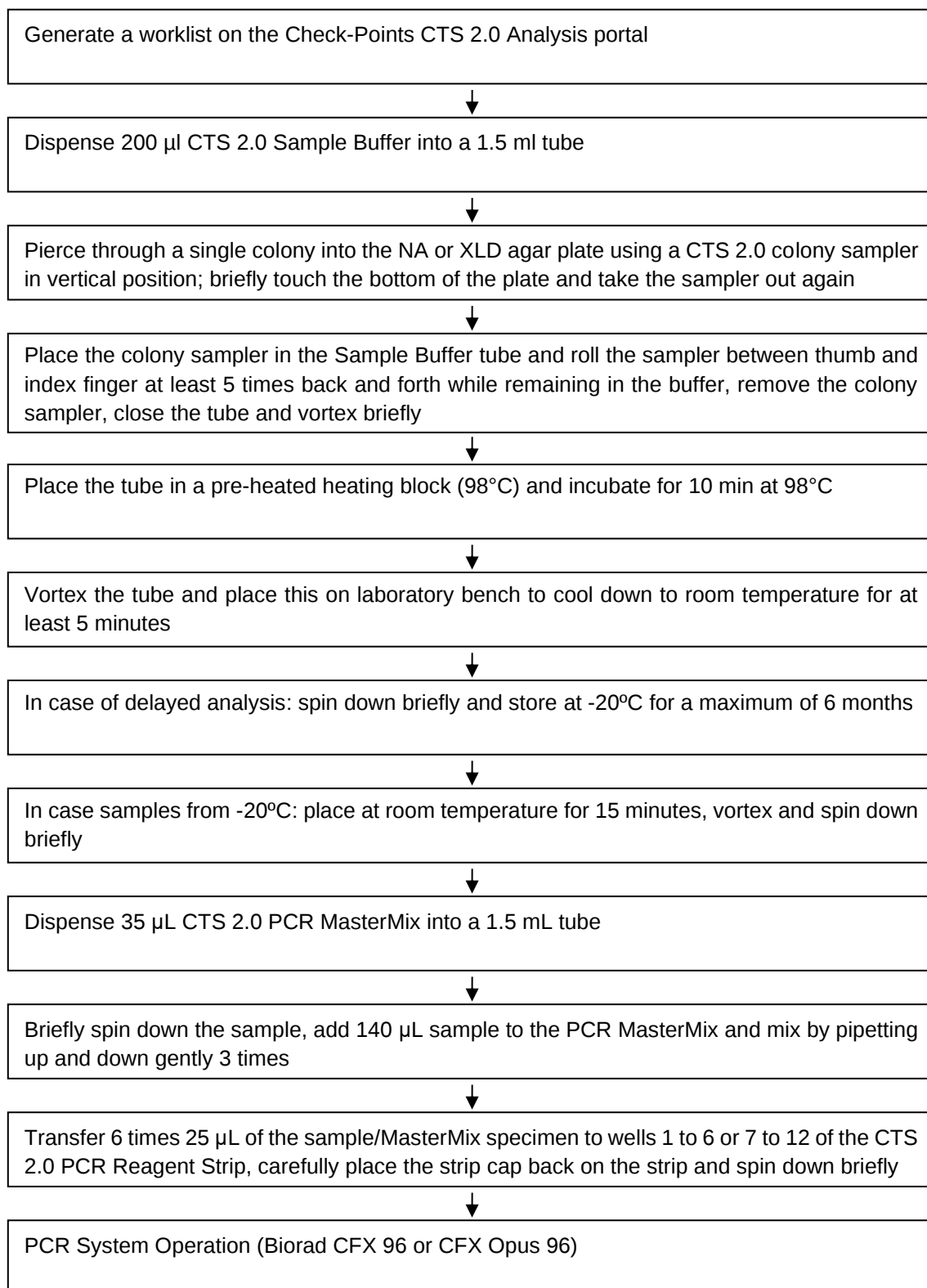
7 ANNEX A: flow diagram of the reference method for confirmation



8 ANNEX B: flow diagram of the reference method for typing



9 ANNEX C: Flow diagram of the alternative method



Confirmation and typing method report v7
2021LR107 Check & Trace Salmonella 2.0 (CTS 2.0)



Data processing via Check-Points CTS 2.0 Analysis portal

10 ANNEX D: Kit insert

Check&Trace Salmonella 2.0

For use with the Bio-Rad CFX 96 and CFX Opus 96 real-time PCR Cycler



1 INTENDED USE

The Check&Trace Salmonella 2.0 Assay is a qualitative, semi-automated real-time PCR test designed for the confirmation and typing of presumptive *Salmonella* isolates from enriched culture media. The confirmation procedure advances a suspected (presumptive) *Salmonella* result (according to ISO-6579-1) to a confirmed *Salmonella* spp. result or a *Salmonella* negative result. The typing procedure generates a serovar result or a "genovar" code both uniquely defining each bacterial isolate tested.

Testing is performed after a simple sample preparation step of bacteria from culture. The sample is then used as input material for a 6-tube multiplex real-time PCR assay performed on the Bio rad CFX 96 or CFX Opus 96 Systems. Presence and absence of target sequences for confirmation and typing are assessed for each multiplex PCR and a final test result is generated automatically using dedicated software.

2 SUMMARY AND EXPLANATION OF THE PROCEDURE

Salmonella is one of the main causes of food poisoning. Detection of *Salmonella* in food and feed stuff is therefore mandatory in many countries. Standard protocols for detection of *Salmonella* are time-consuming taking several days to generate a final positive or negative test result. (ISO-6579/1). If positive for *Salmonella* many countries require further typing of *Salmonella* for epidemiological and health risk assessments. Traditionally this is done using serotyping for the somatic (O) lipopolysaccharide and flagellar (H) protein antigens (ISO-6579/3). However, *Salmonellae* are antigenically complex with over 2 400 serovars having various combinations of the 46 O-antigens and 85 H-antigens (3). So, once positive, further typing of a positive *Salmonella* may again take several days to complete requiring many O- and H-antisera for full typing.

DNA typing differs from serotyping. With serotyping the presence of antigens on the cell surface and flagella are detected. This is based on expression of genes located on two specific segments of the *Salmonella* genome. The CTS 2.0 assay detects genetic variation at 21 loci scattered over the whole *Salmonella* genome: this generates specific *Salmonella* genotypes, also called Genovars. The CTS 2.0 database links Genovars to a collection of well-characterized *Salmonella* Serovars. A Genovar will be given as test result if there is no established Serovar for the Genovar generated by the CTS 2.0 assay.

With the CTS 2.0 assay confirmation and typing of *Salmonella* can be performed in approximately 2.5 hours starting from bacteria from a XLD or Nutrient Agar (NA) plate. The presence of DNA target sequences for typing and confirmation are detected in parallel with various internal controls. CTS 2.0 uses a quick and simple sample preparation process and minimizes operator intervention once the samples are placed onto the real-time PCR system.

PRINCIPLES OF THE PROCEDURE

A worklist is generated on the CTS 2.0 analysis portal. Bacterial specimens are collected from XLD or NA media using "colony samplers" included in the CTS 2.0 kit. Colony samplers are then placed in 1.5 mL tubes pre-filled with 200 µL Sample Buffer. Bacteria are resuspended in this buffer and tubes are closed and transferred to a heating block pre-heated at 98 °C. Tubes are incubated for 10 minutes at 98 °C and allowed to cool down to room temperature for 5 minutes. This procedure generates a crude lysate from the specimens releasing the bacterial DNA in the Sample Buffer. This crude lysate is suitable for the CTS 2.0 real-time amplification process without further purification.

140 µL of the crude lysate is transferred to a fresh tube prefilled with 35 µL PCR Master Mix and mixed by pipetting up and down 3 times. Next 25 µL of the crude lysate/Master Mix solution is added to each of 6 tubes of the CTS 2.0 PCR Reagent Strip. This Reagent Strip contains all PCR primers and probes for target sequence amplification and detection using real-time PCR. Finally, the PCR Reagent Strip is placed in the real-time PCR instrument and the amplification process is started.

The amplified DNA targets are detected using hydrolysis (TaqMan[®]) probes, labeled at one end with a fluorescent reporter dye (fluorophore) and at the other end with a quencher moiety. Probes labeled with different fluorophores are used to detect the various target sequences; up to 5 fluorophores may be used per reaction tube. The CTS 2.0 can detect a total of 27 DNA markers including 6 controls using 6 multiplex real-time PCR's in parallel. Control markers will assess presence or absence of *Salmonella* and detect reaction failure. The absence or presence of each of the remaining 21 DNA markers generates a unique "genetic fingerprint", which is used to determine *Salmonella* type.

The CTS 2.0 assay uses dedicated software for result calling in a 2-step process. In the first step absence and presence of each of the 27 DNA markers is established. This generates a unique presence/absence pattern for all DNA markers, i.e., the "genetic fingerprint". In a second step this "genetic fingerprint" is matched to a database containing the genetic fingerprints of many *Salmonella* serovars. If a match is found the software will call a serovar result from the CTS 2.0 assays; if no match is found but *Salmonella* genus is confirmed a genovar result will be called.

Kit contents	Quantity
CTS 2.0 PCR Reagent Strips <i>PCR strips (with caps) having 12 tubes each, and containing 2 times 6 sets of target-specific primers and fluorescent probes in dry format</i>	3 pouches each having 8 PCR reagent strips with 12 tubes
CTS 2.0 PCR Master Mix <i>PCR Master Mix with DNA polymerase, dNTP's, reaction buffer and stabilizers</i>	2 tubes with 1 mL each
Sample Buffer	1 vial with 12 mL
Colony Samplers	90

3 EQUIPMENT AND MATERIALS REQUIRED BUT NOT PROVIDED

- Bio-Rad CFX 96 or CFX Opus 96 real-time PCR System
- Vortex Mixer
- Heating Block for Eppendorf Tubes
- Centrifuge for Eppendorf Tubes
- Centrifuge for microtiter plates
- Holder for Eppendorf Tubes
- Eppendorf Tubes
- Holder for PCR Reagent Strips
- Pipettes & disposable hydrophobic filter tips for volumes of 20 – 200 µL
- Lab coat and powderless disposable gloves

4 WARNINGS AND PRECAUTIONS

- Caution - This procedure uses / detects pathogenic microorganisms and / or their metabolic products. Care should be taken to avoid ingestion or inhalation of potentially infectious aerosols, or contact with the skin. Laboratory personnel should follow appropriate laboratory safety precautions and have ready access to associated material safety data sheets (SDS, <http://www.ilpi.com/msds/>) While handling pathogens, personnel should use appropriate biosafety containment (<https://www.cdc.gov/labs/BMBL.html>) and be provided with appropriate personal protective equipment including clothing, protective gloves and appropriate eye protection
- The CTS 2.0 assay is for laboratory use only.
- Do not use the kit if the label that seals the outer box is broken.
- Do not use reagents if the protective pouches are open or broken upon arrival.
- Close protective pouches of reagents promptly with the zip seal after each use. Remove any excess air in the pouches prior to sealing.
- Do not remove desiccant from reagent pouches.
- Do not use reagents if desiccant is not present or is broken inside reagent pouches.
- Do not use reagents if the foil has been broken or damaged.
- Do not mix reagents from different pouches and/or kits and/or lots.
- Do not use expired reagents and/or materials.
- Do not expose the PCR Reagent Strips to excessive light to prevent degradation of fluorophores by photo-bleaching.
- Use powder-free gloves and avoid fingerprints and writing on PCR Reagent Strip caps.
- Good laboratory technique is essential to the proper performance of this assay. Due to the high analytical sensitivity of this test, extreme care should be taken to preserve the purity of all materials and reagents.
- To avoid contamination by amplicons, do not open the CTS 2.0 PCR Reagent Strips after use, but dispose immediately.
- Always handle specimens in accordance with safe laboratory procedures for Microbiological Laboratories.
- Wear protective clothing and disposable gloves while handling all reagents.
- Wash hands thoroughly after performing the test.
- Do not smoke, drink, chew or eat in areas where specimens or kit reagents are being handled.
- Dispose of unused reagents and waste in accordance with local, state, provincial and/or federal regulations.

5 STORAGE AND STABILITY

CTS 2.0 Assay reagents and components are stable at 2–8 °C through the stated expiration date. Do not use expired components. CTS 2.0 PCR Reagent Strips are provided in sealed pouches. To protect product from humidity, immediately re-seal after opening.

PCR Reagents Strips are stable for up to 30 days at 2–8 °C after initial opening and re-sealing of the pouch.

6 INSTRUCTIONS FOR USE

Generate Work List

1. Log in to Check-Points CTS 2.0 Analysis portal with e-mail address and password.
2. Open menu by clicking the  icon on the top left.
3. Open the run sessions tab by clicking "Run sessions".
4. Add a new run session with clicking the  icon on the top right. Global Identifier is automatically generated and cannot be changed. Custom run identifier may be created under "Details".
5. Enter "Kit lot number" and select the correct "qPCR cyclers" to use (both mandatory). "Custom run identifier" and "Run session notes" are optional.
6. To add samples, click the pipette icon  and enter sample information. "Samples names" are mandatory, other information like "Sample location", "Production batch", "Sample origin", "Sampling device" and "Sampling date" may also be entered.
7. Click "Save + New" to go to the next sample and continue until the final sample and then click "Save".
8. Alternatively, click the import samples icon  to upload a CSV or XLSX file with sample information. File format may be downloaded using the export button .
9. Click "Download cfx run file". This generates the run file to start the real-time PCR run in the "PCR System Operation" step. If sample info is changed afterwards, always click first again "Download cfx run file" to have the most recent .pln (LIMS) file for the cycler. Running the test with the outdated Lims runfile will result in an error during analysis.
10. Next, download and print a work list for use in the laboratory by clicking the  icon on the top right.
11. Proceed to Sample preparation.

Sample preparation

NOTE: One (1) PCR Reagent Strip is used for two (2) samples. In case of uneven sample numbers supplement with samples from a control (reference) strain.

1. Turn on heating block at **98°C**.
2. Dispense **200 µL** Sample Buffer into a 1.5 mL tube. Use a separate tube for each sample and write sample ID on the tube.
3. Pierce through a single colony into the agar using a colony sampler. Briefly touch the bottom of the plate and take the sampler out again. Always keep the colony sampler in a vertical position as shown in Figure 1.

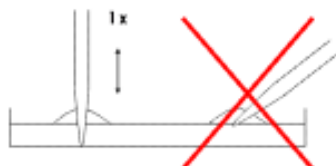


Figure 1: Correct colony sampling

4. Place the colony sampler in 1.5 mL tube with **200 µL** of Sample Buffer and roll the sampler between thumb and index finger at least 5 times back and forth while remaining in the buffer.
5. Remove and discard the colony sampler.
6. Close the tube and vortex briefly.
7. Place tubes in pre-heated heating block and incubate for **10 min at 98°C**.
8. Vortex tubes and place them on laboratory bench to cool down to room temperature for at least 5 minutes. If the samples are not used directly spin down briefly and store tubes at **-20°C**.
9. Proceed to "Real-time PCR Set-Up".

Real-time PCR Set-Up

NOTE: Samples from -20°C should be placed at room temperature for 15 minutes, vortexed and spun down briefly.

1. Dispense **35 µL** PCR Master Mix into a 1.5 mL tube. Use a separate tube for each sample and write sample ID on the tube.
2. Briefly spin down the samples from the previous step (Sample preparation), and add **140 µL** sample to the PCR Master Mix. Mix by pipetting up and down gently 3 times.
3. Take the required number of PCR Reagent Strips from their protective pouches. Remove excess air, and close pouches with the zip seal. Label the end of each PCR Reagent Strip with the appropriate specimen identification.
4. Remove strip caps carefully and keep separate.

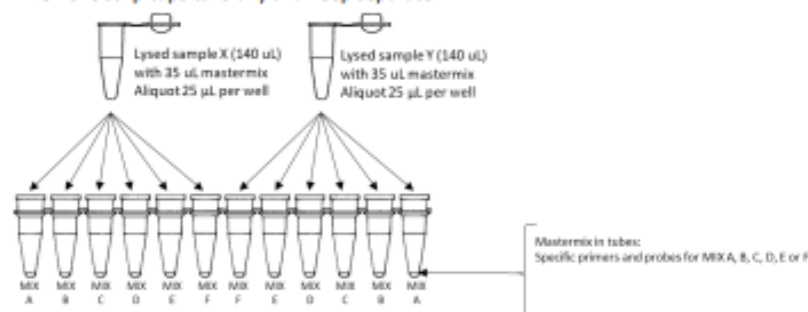


Figure 2 Pipetting scheme of Sample/Master mix specimens.

5. Transfer **25 µL** of the first Sample/Master Mix specimen to tube 1 of PCR Reagent Strip (Figure 2). Repeat this for tubes 2 – 6.
6. Transfer **25 µL** of the second Sample/Master Mix specimen to tube 7 of PCR Reagent Strip. Repeat this for tubes 8 – 12 (Figure 2).
7. Proceed until all Sample/Master Mix specimens have been transferred to their PCR Reagent Strips.
8. Carefully place the strip caps back on the strips. Make sure strip caps are sealed airtight to prevent evaporation during PCR, and **spin down briefly**.
9. Power on the PCR System and computer.
10. Open the lid of the real-time PCR cyclor.
11. Place PCR Reagent Strips in the PCR machine using the worklist created in "Generate work list" section. If needed place "dummy" PCR reagent strips according to the worklist to distribute strips evenly over the PCR heating block.
12. Close the lid of the real-time PCR cyclor.
13. Proceed to "PCR System Operation".

PCR System Operation

NOTE: a computer connected to the cyclor is required to use the LIMS file.

1. Start the Bio-Rad CFX Manager software.
2. Click "File" go to "Open" and click "Open LIMS File". Then import CFX runfile from Check-Points CTS 2.0 Analysis portal.
3. Click "Start" to initiate run and save the run without changing the name of the file in the pop-up.
4. At the end of the run save the data file (.PCRD extension) to a dedicated network location or USB device.

Data Processing and Results

1. Log in to the Check-Points CTS 2.0 Analysis portal.
2. Open the Run session generated in the "Generate work list" section.
3. Click the "Upload CFX Result file" tab and upload the pcrd file containing the PCR run data.
4. Click on the banner that pops up or on the  icon to start data processing.
5. The data processing runs in the background and it is not necessary to keep the window open. Processing will take 5 – 10 minutes and results will pop-up automatically. If results do not appear, refresh the browser once (F5) and check the "Messages" tab.
6. Reports can be printed by clicking the "Reporting" tab. Use the tick boxes to select results for printing and use  to download individual reports or  to download a summary report.
7. Table 1 below shows the results and interpretations that may be obtained.

Table 1 CTS Assay Result Interpretation

Assay Result Reported	Interpretation of Result	Next Step
Salmonella Serovar	Salmonella positive and Serovar result	Final result
Salmonella Serovar 1 or Serovar 2	Salmonella positive result with two possible Serovar results	Final result
Salmonella positive Genovar	Salmonella positive result with Genovar code	Repeat sample once with fresh isolate
Salmonella positive, Inconclusive typing result	Salmonella positive, but no typing result	Repeat sample once with fresh isolate
No Salmonella	Gram-negative bacteria detected but not Salmonella	Final result
No DNA Detected	No gram-negative bacteria detected	Repeat sample once with fresh isolate
Reaction not OK	Reaction failed – inhibitory sample or reagent failure; no Internal Control amplification	Repeat sample once with fresh isolate

Repeat procedure

In the following circumstances it is advised to repeat the sample once with a fresh isolate:

1. Salmonella positive with Genovar code
2. Salmonella positive with inconclusive typing result
3. No DNA detected
4. Reaction not OK

A Salmonella positive with Genovar code or Inconclusive typing result may be obtained in case one (1) of the 21 typing markers has given an erroneous result generating a Genovar code, for which there is no association with a known Serovar in the CTS 2.0 database. This is a rare event for individual markers, but significant for the sum of the 21 typing markers. Repeating the sample once will generate a Serovar result if this specific issue has occurred and should be noted as the final result. The initial Genovar result or Inconclusive typing result may also be the proper result and repeating the assay will generate the same result in these cases.

In case of "Reaction not OK" or "No DNA detected" it is also advised to repeat the sample once with a fresh isolate. These results are often caused by sub-optimal reaction conditions and/or impurities in the sample. Repeating the reaction with a fresh isolate will generate a proper result the second time in many cases.

It may be that the Check&Trace Salmonella 2.0 Assay does not generate a conclusive confirmation and/or typing result, even after repeating the test. In such cases it is advised to use an alternative method to obtain a final test result. (1,2).

Requesting support

Support about the obtained results can be requested by marking the support button in the Run session.

1. Select the run session for which you like to request support
2. Select the "person" icon.
3. Click confirm on the pop-up



Figure 3 Image showing the "person" support request icon (yellow circle) and the pop-up after clicking.

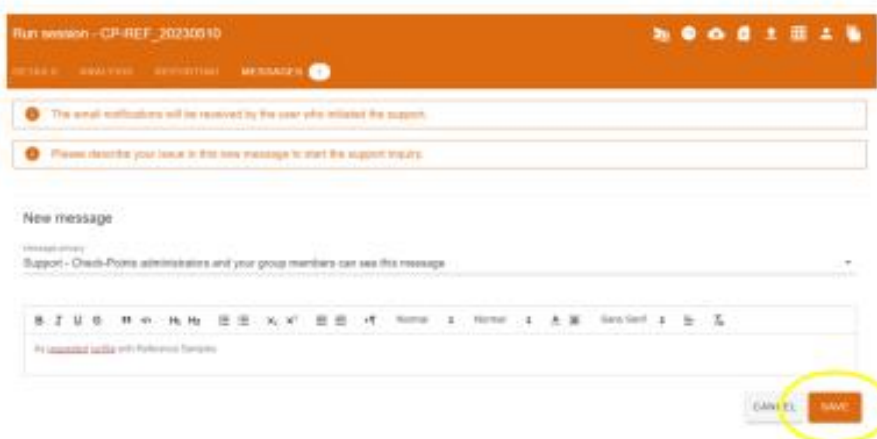


Figure 4 Message center after clicking the support button

4. Add a descriptive message so support knows where to help. Click save to finalize
5. Adding a message is mandatory, otherwise a support request won't be sent by the system.

7 QUALITY CONTROL

Quality control procedures monitor the performance of the assay. Laboratories must establish the number, type and frequency of testing control materials according to guidelines or requirements of local, provincial, state and/or federal regulations or accreditation organizations in order to monitor the entire analytical process.

External Positive and Negative Controls are not used by the CTS 2.0 Assay for the purpose of test result interpretation. The CTS 2.0 Assay also has a total of 6 internal controls to monitor for potential reaction failure. However, it is advised to test control samples daily until adequate process validation is achieved. Reduced frequency of control testing should be in accordance with applicable regulations.

External Controls should yield the expected results: *Salmonella* serovar for External Positive Control, and "No *Salmonella*" for External Negative Control. Any other result for the external controls is indicative for system failure.

Table 2 below specifies a number of reference strains that may be used for as external positive or negative controls. Other controls strains of which the test result is well documented may also be used.

Table 2 Commercially Available Strains for External Positive and negative Control

External Control Strain	Test Result
<i>Salmonella enterica</i> subsp. <i>enterica</i> serovar Enteritidis (NCTC 12694)	<i>Salmonella</i> Enteritidis
<i>Salmonella enterica</i> subsp. <i>enterica</i> serovar Typhimurium (NCTC 10413)	<i>Salmonella</i> Typhimurium
<i>Salmonella enterica</i> subsp. <i>enterica</i> serovar Typhimurium (Monophasic); 1,4,5,12:- (NCTC 13952)	<i>Salmonella</i> Typhimurium Monophasic
<i>Escherichia coli</i> (ATCC 25922)	No <i>Salmonella</i>

8 LIMITATIONS OF THE PROCEDURE

- This product can only be used on the Bio-Rad CFX-96 or CFX Opus 96 Systems.
- Erroneous results may occur from improper sample collection, handling, storage, technical error, sample mix-up.
- If the CTS 2.0 results is "*Salmonella* positive with genovar code", "*Salmonella* positive inconclusive typing result", "No DNA detected" or "Reaction not OK", then the test should be repeated with a fresh isolate.
- Inclusivity testing and analysis have determined that the following *Salmonella* serovars are detected: Abaetetuba, Agona, Alachua, Albany, Anatum, Bovismorbificans, Braenderup, Brandenburg, Bredeney, Cerro, Choleraesuis, Corvallis, Cubana, Derby, Dublin, Enteritidis, Gallinarum Gallinarum, Gallinarum Pullorum, Give, Goldcoast, Hadar, Havana, Heidelberg, Idikan, Infantis, Javiana, Kentucky, Livingstone, London, Mbandaka, Minnesota, Molade, Montevideo, Muenchen, Muenster, Newport, Ohio, Oranienburg, Orion, Ouakam, Panama, Paratyphi B biovar. Java, Poona, Reading, Rissen, Saintpaul, Santiago, Schwarzengrund, Senftenberg, Stanley, Tennessee, Thompson, Typhimurium, Uganda, Virchow, Worthington, Yoruba, monophasic variant of *Salmonella* Typhimurium (1,4,[5],12:-), 4,[5],12:-. Other *Salmonella* serovars will yield a genovar code. In some cases CTS 2.0 may report "*Salmonella* positive serovar A or serovar B".
- Mutations or polymorphisms in primer or probe binding regions may affect detection of certain sequence variants (Sequence Types) of the serovars included in the CTS 2.0 assay. In such cases CTS 2.0 will report a genovar code instead of the serovar result.
- CTS 2.0 is not able to discriminate *Salmonella* species or subspecies, i.e. species *bongori* and *enterica* and *enterica* subspecies *arizonae*, *diarizonae*, *enterica*, *houtenae*, *indica* and *salamae*. In all these cases the CTS 2.0 result will be "*Salmonella* positive genovar code".
- CTS 2.0 is a qualitative test and does not provide quantitative values nor indicate the quantity of organisms present.
- The performance of the CTS 2.0 has been evaluated on Nutrient Agar and XLD agar. Other media

will need to be evaluated separately for any laboratory to verify adequate performance on such media.

9 PERFORMANCE CHARACTERISTICS

General

CTS 2.0 Assay validation was carried out by Microval Expert Laboratory WFC, Arkel, the Netherlands, under supervision of the Microval Technical Committee (MUTC). ISO-16140 part 6 was used as standard for drafting the protocol and preparing the report including the acceptability criteria. ISO-6579/1 and ISO-6579/3 were used as reference methods for confirmation and typing, respectively. Assay validation consisted on two main parts: 1. A Methods Comparison Study (MCS), and 2. An Inter-Laboratory Study (ILS). The MCS was carried out using bacteria from two media, Nutrient Agar (NA) and XLD Agar (XLD) on two real-time PCR platforms, Bio-Rad CFX 96 and Bio-Rad CFX Opus 96. The ILS was carried out on a single medium, XLD, and using either Bio-Rad CFX 96 or Bio-Rad CFX Opus 96, whatever was available at the various ILS sites.

Inclusivity Confirmation Study

An inclusivity study was performed for confirmation of *Salmonella* according to ISO-16140_6. A total of 150 previously characterized *Salmonella* strains was used. Table 3 below depicts the results for Confirmation of *Salmonella* from these strains.

Table 3 Results of 150 *Salmonella* strains for confirmation of *Salmonella*, i.e. result is "*Salmonella* serovar" or "*Salmonella* genovar" or "*Salmonella* positive, inconclusive typing result", on two media, Nutrient Agar (NA) and XLD agar and two PCR platforms, Bio-Rad CFX 96 and Bio-Rad CFX Opus 96.

Number of Strains	qPCR System	Medium	Inclusivity Agreement	Inclusivity Disagreement
150	Bio-Rad CFX 96	NA	150	0
		XLD	150	0
	Bio-Rad CFX OPUS 96	NA	150	0
		XLD	150	0

In summary, all 150 *Salmonella* strains were confirmed as *Salmonella* by the CTS 2.0 Assay on both systems and with both media.

Exclusivity Confirmation Study

An exclusivity study was performed for confirmation of non-*Salmonella* according to ISO-16140_6. A total of 102 previously characterized non-*Salmonella* strains was used. Table 4 below depicts the results for confirmation of non-*Salmonella* from these strains.

Table 4 results of 102 strains for confirmation of non-*Salmonella*, i.e. result is "No *Salmonella*", on two media, Nutrient Agar and XLD agar and two PCR platforms, Bio-Rad CFX 96 and Bio-Rad CFX Opus 96. Note, numbers may vary slightly in case of non-growth on XL

Number of Strains	qPCR System	Medium	Exclusivity Agreement	Exclusivity Disagreement
102	Bio-Rad CFX 96	NA	102	0
		XLD	95	0
	Bio-Rad CFX OPUS 96	NA	101	0
		XLD	96	0

In summary, all non-Salmonella strains with a conclusive test result were confirmed as non-Salmonella by the CTS 2.0 Assay on both systems and with both media.

Inclusivity Typing Study

An inclusivity study was performed for typing of *Salmonella* according to ISO-16140_6. A total of 315 previously characterized *Salmonella* strains of 59 different serovars was used. Table 5 below depicts the results for typing of *Salmonella* from these strains.

Table 5 results for 315 *Salmonella* serovar strains for typing of *Salmonella*, i.e. result is "*Salmonella* serovar", on two media, Nutrient Agar (NA) and XLD agar and two PCR platforms, Bio-Rad CFX 96 and Bio-Rad CFX Opus 96. Some strains gave an inconclusive result. Note "*Salmonella* genovar" was considered as an inconclusive typing result for Inclusivity Typing.

Number of Strains	qPCR System	Medium	Inclusivity Agreement	Inclusivity Disagreement
315	Bio-Rad CFX 96	NA	311	0
		XLD	300	0
	Bio-Rad CFX OPUS 96	NA	308	1
		XLD	309	1

In summary, 1208 of 1210 *Salmonella* serovar test results were in agreement with the expected test results. Two (2) *Salmonella* serovar test results were in disagreement with the expected results, a *Salmonella* Poona strain was reported as *Salmonella* Abaetetuba with the CFX Opus 96 on both media.

Exclusivity Typing Study

An exclusivity study was performed for typing of *Salmonella* according to ISO-16140_6. A total of 104 strains were used, 78 *Salmonella* exclusivity serovars and 26 non-*Salmonella* Enterobacteriaceae. Table 6 below depicts the test results for these strains.

Table 6 combined test results for 78 *Salmonella* serovar exclusivity strains and 26 non-*Salmonella* Enterobacteriaceae strains on two media, Nutrient Agar (NA) and XLD agar and two PCR platforms, Bio-Rad CFX 96 and Bio-Rad CFX Opus 96. Some strains gave an inconclusive result. Note *Salmonella* exclusivity serovars should give a genovar results for "Exclusivity Agreement".

Number of Strains	qPCR System	Medium	Exclusivity Agreement	Exclusivity Disagreement
104	Bio-Rad CFX 96	NA	103	1
		XLD	102	0
	Bio-Rad CFX OPUS 96	NA	101	2
		XLD	102	1

In summary, 408 of 412 test results were in agreement with the expected result, "*Salmonella* genovar" for exclusivity *Salmonella* serovars, and "No *Salmonella*" for non-*Salmonella* Enterobacteriaceae. 4 *Salmonella* exclusivity serovars gave an incorrect result, i.e. "*Salmonella* serovar" instead of "*Salmonella* genovar". *Salmonella* Coeln gave "*Salmonella* Saintpaul" on NA with both PCR systems. *Salmonella* Matopeni gave "*Salmonella* Braenderup" on CFX Opus 96 with both media.

Inter-Laboratory Study

30 bacterial strains were sent to 15 collaborators at 13 sites participating in the Inter-Laboratory Study (ILS) and included 16 *Salmonella* Inclusivity serovars, 4 *Salmonella* Exclusivity serovars, one (1) *Salmonella enterica* subsp. *arizonae*, one (1) *Salmonella bongori* and 8 non-*Salmonella* Enterobacteriaceae. 24 of 30 test results were used for the ILS Confirmation Study and another set of

24 of 30 test results were used for the ILS Typing Study, hence a set of 18 test results was used for both typing and confirmation. Reference testing was only done for the confirmation part of the study. Testing was done from XLD Agar only using the PCR systems at the collaborators, i.e. 11 Bio-Rad CFX 96 systems and 4 Bio-Rad CFX Opus 96 systems.

ILS Confirmation Study

Data from 13 of 15 collaborators were included in the ILS, one collaborator did not report the data in time, the other collaborator deviated for the Instruction for Use (IFU). Table 7 below depicts the result of the ILS Confirmation Study for these 13 collaborators.

Table 7 test results for ILS Confirmation, 16 Inclusivity strains and 8 Exclusivity strains, all non-Salmonella Enterobacteriaceae.

Collaborator	Confirmation Inclusivity		Confirmation Exclusivity	
	Reference method	CTS 2.0	Reference Method	CTS 2.0
1	16/16	15/16	8/8	8/8
2	16/16	16/16	8/8	8/8
3	16/16	16/16	7/8	8/8
4	16/16	16/16	8/8	8/8
5	16/16	16/16	8/8	8/8
6	16/16	16/16	8/8	8/8
7	16/16	16/16	8/8	8/8
8	16/16	15/16	7/8	8/8
9	16/16	16/16	8/8	8/8
10	16/16	16/16	8/8	8/8
11	16/16	16/16	8/8	8/8
12	16/16	16/16	8/8	8/8
13	16/16	16/16	8/8	8/8
Total	208/208	206/208	102/104	104/104

In summary, 310 of 312 test results for Confirmation of CTS 2.0 were concordant. Two (2) of 312 samples did not give a conclusive result. No discordant test results were reported.

ILS Typing Study

Data from 13 of 15 collaborators were included in the ILS, one collaborator did not report the data in time, the other collaborator deviated for the Instruction for Use (IFU). Table 8 below depicts the result of the ILS Typing Study for these 13 collaborators.

Table 8 test results for Typing, 16 Inclusivity strains and 8 Exclusivity strains, i.e. 4 Salmonella Exclusivity serovars and 4 non-Salmonella Enterobacteriaceae.

Collaborator	Typing Inclusivity		Typing Exclusivity	
	Reference method	CTS 2.0	Reference Method	CTS 2.0
1	n.a.	15/16	n.a.	8/8
2	n.a.	16/16	n.a.	8/8
3	n.a.	16/16	n.a.	7/8
4	n.a.	16/16	n.a.	8/8
5	n.a.	14/16	n.a.	8/8
6	n.a.	16/16	n.a.	8/8
7	n.a.	16/16	n.a.	8/8
8	n.a.	14/16	n.a.	8/8
9	n.a.	16/16	n.a.	8/8
10	n.a.	16/16	n.a.	8/8
11	n.a.	16/16	n.a.	8/8
12	n.a.	16/16	n.a.	8/8
13	n.a.	16/16	n.a.	8/8
Total	n.a.	203/208	n.a.	103/104

In summary, 306 of 312 test results for Typing of CTS 2.0 were concordant. Six (6) of 312 samples did not give a conclusive test result. No discordant test results were reported.

Summary of the MicroVal Certificate



MicroVal hereby declares that the certification assessment has demonstrated that Check & Trace Salmonella 2.0 (CTS 2.0) has been validated and revealed to be at least equivalent to the reference method as demonstrated by the validation study report. The summary of the validation report is available on the Microval website: www.microval.org

Reference methods: ISO-6579-1:2017 and ISO/TR 6579-3:2014.

Scope: Confirmation of presumptive Salmonella isolated on non-selective NA and selective XLD agar and typing of 59 Salmonella serovars.

The validation and certification has been performed in accordance with ISO 16140-6:2019 and the MicroVal Rules and Certification Scheme version 9.1

Certificate no: 2021LR07

AOAC Certificate



The Check & Trace Salmonella 2.0 was certified by the AOAC Performance Tested MethodsSM Program on July 10, 2023 and assigned PTM Certification No. 072301. The evaluation included inclusivity, exclusivity, robustness, product consistency and stability testing. The CTS 2.0 is applicable for the confirmation of *Salmonella* species from non-selective NA and selective XLD agar and the typing of the 59 *Salmonella* serovars mentioned in paragraph 8 (limitations of the procedure) of this manual. Summary of the report can be found via:

https://members.aoc.org/AOAC/PTM_Validated_Methods.aspx

10 REFERENCES

1. ISO 6579-1. Microbiology of the food chain – Horizontal method for detection, enumeration and serotyping of *Salmonella* - Part 1: Detection of *Salmonella* spp. [ISO 6579-1:2017].
2. ISO 6579-3. Microbiology of the food chain – Horizontal method for detection, enumeration and serotyping of *Salmonella* - Part 3: Guidelines for serotyping of *Salmonella* spp. [ISO 6579-3:2014].
3. Antigenic formulae of the *Salmonella* serovars. Grimont, P.A.D. and Weill, F.X. Vol.9, 2007.
4. ISO 16140-1:2016 Microbiology of the food chain – Method validation – Part 1: Vocabulary.
5. ISO 16140-6:2016 Microbiology of the food chain – Method validation – Part 6: Protocol for the validation of alternative (proprietary) methods for microbiological confirmation and typing procedures

11 SYMBOLS GLOSSARY

Symbol	Meaning
	Manufacturer
	Contains sufficient for <n> tests
	Temperature limit
	Consult instructions for use For electronic Instructions for use, the URL accompanies the symbol.
	Keep dry
	Keep away from light

Check-Points B.V.
Binnenhaven 5
6709 PD Wageningen
The Netherlands

info@check-points.com
www.check-points.com





11 ANNEX E: Strains inclusivity and exclusivity study

An overview of all strains used for the inclusivity and exclusivity study can be found in the attached **PDF-file “Annex E_CTS 2.0_MicroVal Report V6_2021LR107”**.

12 ANNEX F: Raw data inclusivity and exclusivity study

Sample ID	Genus	Species	Subspecies	Serotype	# repeat	Medium	Colonies on XLD	PCR system	Results CTS 2.0	Confirmation - Interpretation result	Typing - interpretation result	Remark
CTS_583	Salmonella	bongori	-	-	1	NA	na	CFX	Salmonella S. bongori (V)	na	IA	
CTS_583	Salmonella	bongori	-	-	1	XLD	Typical	CFX	Salmonella S. bongori (V)	na	IA	
CTS_583	Salmonella	bongori	-	-	1	NA	na	OPUS	Salmonella S. bongori (V)	na	IA	
CTS_583	Salmonella	bongori	-	-	1	XLD	Typical	OPUS	Salmonella S. bongori (V)	na	IA	
CTS_721	Salmonella	bongori	-	-	1	NA	na	CFX	Salmonella S. bongori (V)	IA	IA	
CTS_721	Salmonella	bongori	-	-	1	XLD	Typical	CFX	Salmonella S. bongori (V)	IA	IA	
CTS_721	Salmonella	bongori	-	-	1	NA	na	OPUS	Salmonella S. bongori (V)	IA	IA	
CTS_721	Salmonella	bongori	-	-	1	XLD	Typical	OPUS	Salmonella S. bongori (V)	IA	IA	
CTS_785	Salmonella	bongori	-	-	1	NA	na	CFX	Salmonella S. bongori (V)	IA	IA	
CTS_785	Salmonella	bongori	-	-	1	XLD	Typical	CFX	Salmonella S. bongori (V)	IA	IA	
CTS_785	Salmonella	bongori	-	-	1	NA	na	OPUS	Salmonella S. bongori (V)	IA	IA	
CTS_785	Salmonella	bongori	-	-	1	XLD	Typical	OPUS	Salmonella S. bongori (V)	IA	IA	
CTS_797	Salmonella	bongori	-	-	1	NA	na	CFX	Salmonella S. bongori (V)	IA	IA	
CTS_797	Salmonella	bongori	-	-	1	XLD	Typical	CFX	Salmonella S. bongori (V)	IA	IA	
CTS_797	Salmonella	bongori	-	-	1	NA	na	OPUS	Salmonella S. bongori (V)	IA	IA	
CTS_797	Salmonella	bongori	-	-	1	XLD	Typical	OPUS	Salmonella S. bongori (V)	IA	IA	



CTS_820	Salmonella	bongori	-	-	1	NA	na	CFX	Salmonella S. bongori (V)	na	IA
CTS_820	Salmonella	bongori	-	-	1	XLD	Typical	CFX	Salmonella S. bongori (V)	na	IA
CTS_820	Salmonella	bongori	-	-	1	NA	na	OPUS	Salmonella S. bongori (V)	na	IA
CTS_820	Salmonella	bongori	-	-	1	XLD	Typical	OPUS	Salmonella S. bongori (V)	na	IA
CTS_805	Salmonella	enterica	arizonae	-	1	NA	na	CFX	Salmonella positive, Genovar 4KG6G1	IA	EA
CTS_004	Salmonella	enterica	salamae	-	1	NA	na	CFX	Salmonella positive, Genovar CHGER1	IA	na
CTS_004	Salmonella	enterica	salamae	-	1	XLD	Typical	CFX	Salmonella positive, Genovar CGGER1	IA	na
CTS_004	Salmonella	enterica	salamae	-	1	NA	na	OPUS	Salmonella positive, Genovar CGGER1	IA	na
CTS_004	Salmonella	enterica	salamae	-	1	XLD	Typical	OPUS	Salmonella positive, Genovar CHGER1	IA	na
CTS_005	Salmonella	enterica	salamae	-	1	NA	na	CFX	Salmonella positive, Genovar 4HGER1	IA	na
CTS_005	Salmonella	enterica	salamae	-	1	XLD	Typical	CFX	Salmonella positive, Genovar 4HGER1	IA	na
CTS_005	Salmonella	enterica	salamae	-	1	NA	na	OPUS	Salmonella positive, Genovar 4HGER1	IA	na
CTS_005	Salmonella	enterica	salamae	-	1	XLD	Typical	OPUS	Salmonella positive, Genovar 4HGER1	IA	na
CTS_006	Salmonella	enterica	salamae	-	1	NA	na	CFX	Salmonella positive, Genovar 4XRAY1	IA	na
CTS_006	Salmonella	enterica	salamae	-	1	XLD	Typical	CFX	Salmonella positive, Genovar 4XRAY1	IA	na
CTS_006	Salmonella	enterica	salamae	-	1	NA	na	OPUS	Salmonella positive, Genovar 4XRTY1	IA	na
CTS_006	Salmonella	enterica	salamae	-	1	XLD	Typical	OPUS	Salmonella positive, Genovar 4XRAY1	IA	na
CTS_007	Salmonella	enterica	arizonae	-	1	NA	na	CFX	Salmonella positive, Genovar 4JG6G1	IA	na

CTS_007	Salmonella	enterica	arizonae	-	1	XLD	Typical	CFX	Salmonella positive, Genovar 4JG6G1	IA	na
CTS_007	Salmonella	enterica	arizonae	-	1	NA	na	OPUS	Salmonella positive, Genovar 4KG6G1	IA	na
CTS_007	Salmonella	enterica	arizonae	-	1	XLD	Typical	OPUS	Salmonella positive, Genovar 4KG6G1	IA	na
CTS_008	Salmonella	enterica	arizonae	-	1	NA	na	CFX	Salmonella positive, Genovar 4KG6G1	IA	na
CTS_008	Salmonella	enterica	arizonae	-	1	XLD	Typical	CFX	Salmonella positive, Genovar CKG6G1	IA	na
CTS_008	Salmonella	enterica	arizonae	-	1	NA	na	OPUS	Salmonella positive, Genovar 4KG6G1	IA	na
CTS_008	Salmonella	enterica	arizonae	-	1	XLD	Typical	OPUS	Salmonella positive, Genovar 4KG6G1	IA	na
CTS_010	Salmonella	enterica	diarizonae	-	1	NA	na	CFX	Salmonella positive, Genovar WSGER1	IA	na
CTS_010	Salmonella	enterica	diarizonae	-	1	XLD	Typical	CFX	Salmonella positive, Genovar WSGER1	IA	na
CTS_010	Salmonella	enterica	diarizonae	-	1	NA	na	OPUS	Salmonella positive, Genovar WSGER1	IA	na
CTS_010	Salmonella	enterica	diarizonae	-	1	XLD	Typical	OPUS	Salmonella positive, Genovar WSGER1	IA	na
CTS_011	Salmonella	enterica	diarizonae	-	1	NA	na	CFX	Salmonella positive, Genovar 4HGER1	IA	na
CTS_011	Salmonella	enterica	diarizonae	-	1	XLD	Typical	CFX	Salmonella positive, Genovar 4HGER1	IA	na
CTS_011	Salmonella	enterica	diarizonae	-	1	NA	na	OPUS	Salmonella positive, Genovar 4HGER1	IA	na
CTS_011	Salmonella	enterica	diarizonae	-	1	XLD	Typical	OPUS	Salmonella positive, Genovar 4HGER1	IA	Na
CTS_012	Salmonella	enterica	diarizonae	-	1	NA	na	CFX	Salmonella positive, Genovar CSGER1	IA	na
CTS_012	Salmonella	enterica	diarizonae	-	1	XLD	Typical	CFX	Salmonella positive, Genovar CSGER1	IA	na
CTS_012	Salmonella	enterica	diarizonae	-	1	NA	na	OPUS	Salmonella positive, Genovar CSGER1	IA	na

CTS_012	Salmonella	enterica	diarizonae	-	1	XLD	Typical	OPUS	Salmonella positive, Genovar CSGER1	IA	na
CTS_013	Salmonella	enterica	houtenae	-	1	NA	na	CFX	Salmonella positive, Genovar 4JG6G1	IA	na
CTS_013	Salmonella	enterica	houtenae	-	1	XLD	Typical	CFX	Salmonella positive, Genovar 4KG6G1	IA	na
CTS_013	Salmonella	enterica	houtenae	-	2	XLD	Typical	CFX	Salmonella positive, Genovar 4KG6G1	IA	na
CTS_013	Salmonella	enterica	houtenae	-	1	NA	na	OPUS	Salmonella positive, Genovar 4KG6G1	IA	na
CTS_013	Salmonella	enterica	houtenae	-	1	XLD	Typical	OPUS	Salmonella positive, Genovar 4KG6G1	IA	na
CTS_013	Salmonella	enterica	houtenae	-	2	XLD	Typical	OPUS	Salmonella positive, Genovar 4KG6G1	IA	na
CTS_014	Salmonella	enterica	houtenae	-	1	NA	na	CFX	Salmonella positive, Genovar 4HR7G1	IA	na
CTS_014	Salmonella	enterica	houtenae	-	1	XLD	Typical	CFX	Salmonella positive, Genovar 4HR7G1	IA	na
CTS_014	Salmonella	enterica	houtenae	-	1	NA	na	OPUS	Salmonella positive, Genovar 4HR7G1	IA	na
CTS_014	Salmonella	enterica	houtenae	-	1	XLD	Typical	OPUS	Salmonella positive, Genovar 4HR7G1	IA	na
CTS_015	Salmonella	enterica	houtenae	-	1	NA	na	CFX	Salmonella positive, Genovar 4HR7G1	IA	na
CTS_015	Salmonella	enterica	houtenae	-	1	XLD	Typical	CFX	Salmonella positive, Genovar 4HR7G1	IA	na
CTS_015	Salmonella	enterica	houtenae	-	1	NA	na	OPUS	Salmonella positive, Genovar 4HR7G1	IA	na
CTS_015	Salmonella	enterica	houtenae	-	1	XLD	Typical	OPUS	Salmonella positive, Genovar CHR7G1	IA	na
CTS_016	Salmonella	enterica	indica	-	1	NA	na	CFX	Salmonella positive, Genovar C1R6G1	IA	na
CTS_016	Salmonella	enterica	indica	-	1	XLD	Typical	CFX	Salmonella positive, Genovar C1R6G1	IA	na
CTS_016	Salmonella	enterica	indica	-	1	NA	na	OPUS	Salmonella positive, Genovar C1R6G1	IA	na

CTS_016	Salmonella	enterica	indica	-	1	XLD	Typical	OPUS	Salmonella positive, Genovar C1R6G1	IA	na
CTS_017	Salmonella	enterica	indica	-	1	NA	na	CFX	Salmonella positive, Genovar CSGEG1	IA	na
CTS_017	Salmonella	enterica	indica	-	1	XLD	Typical	CFX	Salmonella positive, Genovar CSGEG1	IA	na
CTS_017	Salmonella	enterica	indica	-	1	NA	na	OPUS	Salmonella positive, Genovar CSGEG1	IA	na
CTS_017	Salmonella	enterica	indica	-	1	XLD	Typical	OPUS	Salmonella positive, Genovar CSGEG1	IA	na
CTS_529	Salmonella	enterica	indica	-	1	NA	na	CFX	Salmonella positive, Genovar C1R6G1	IA	na
CTS_529	Salmonella	enterica	indica	-	1	XLD	Typical	CFX	Salmonella positive, Genovar C1R6G1	IA	na
CTS_529	Salmonella	enterica	indica	-	1	NA	na	OPUS	Salmonella positive, Genovar C1R6G1	IA	na
CTS_529	Salmonella	enterica	indica	-	1	XLD	Typical	OPUS	Salmonella positive, Genovar C1R6G1	IA	na
CTS_805	Salmonella	enterica	arizonae	-	1	XLD	Typical	CFX	Salmonella positive, Genovar 4KG6G1	IA	EA
CTS_805	Salmonella	enterica	arizonae	-	1	NA	na	OPUS	Salmonella positive, Genovar 4KG6G1	IA	EA
CTS_805	Salmonella	enterica	arizonae	-	1	XLD	Typical	OPUS	Salmonella positive, Genovar 4KG6G1	IA	EA
CTS_319	Salmonella	enterica	enterica	4,[5],12:d:-	1	NA	na	CFX	Salmonella enterica (l) 4.[5].12:d:-	IA	IA
CTS_319	Salmonella	enterica	enterica	4,[5],12:d:-	1	XLD	Typical	CFX	Salmonella enterica (l) 4.[5].12:d:-	IA	IA
CTS_319	Salmonella	enterica	enterica	4,[5],12:d:-	1	NA	na	OPUS	Salmonella enterica (l) 4.[5].12:d:-	IA	IA
CTS_319	Salmonella	enterica	enterica	4,[5],12:d:-	1	XLD	Typical	OPUS	Salmonella enterica (l) 4.[5].12:d:-	IA	IA
CTS_320	Salmonella	enterica	enterica	4,[5],12:d:-	1	NA	na	CFX	Salmonella enterica (l) 4.[5].12:d:-	IA	IA
CTS_320	Salmonella	enterica	enterica	4,[5],12:d:-	1	XLD	Typical	CFX	Salmonella enterica (l) 4.[5].12:d:-	IA	IA

CTS_320	Salmonella	enterica	enterica	4,[5],12:d:-	1	NA	na	OPUS	Salmonella enterica (l) 4.[5].12:d:-	IA	IA
CTS_320	Salmonella	enterica	enterica	4,[5],12:d:-	1	XLD	Typical	OPUS	Salmonella enterica (l) 4.[5].12:d:-	IA	IA
CTS_322	Salmonella	enterica	enterica	4,[5],12:d:-	1	NA	na	CFX	Salmonella enterica (l) 4.[5].12:d:-	na	IA
CTS_322	Salmonella	enterica	enterica	4,[5],12:d:-	1	XLD	Typical	CFX	Salmonella enterica (l) 4.[5].12:d:-	na	IA
CTS_322	Salmonella	enterica	enterica	4,[5],12:d:-	1	NA	na	OPUS	Salmonella enterica (l) 4.[5].12:d:-	na	IA
CTS_322	Salmonella	enterica	enterica	4,[5],12:d:-	1	XLD	Typical	OPUS	Salmonella enterica (l) 4.[5].12:d:-	na	IA
CTS_323	Salmonella	enterica	enterica	4,[5],12:d:-	1	NA	na	CFX	Salmonella enterica (l) 4.[5].12:d:-	na	IA
CTS_323	Salmonella	enterica	enterica	4,[5],12:d:-	1	XLD	Typical	CFX	Salmonella enterica (l) 4.[5].12:d:-	na	IA
CTS_323	Salmonella	enterica	enterica	4,[5],12:d:-	1	NA	na	OPUS	Salmonella enterica (l) 4.[5].12:d:-	na	IA
CTS_323	Salmonella	enterica	enterica	4,[5],12:d:-	1	XLD	Typical	OPUS	Salmonella enterica (l) 4.[5].12:d:-	na	IA
CTS_513	Salmonella	enterica	enterica	4,[5],12:d:-	1	NA	na	CFX	Salmonella enterica (l) 4.[5].12:d:-	na	IA
CTS_513	Salmonella	enterica	enterica	4,[5],12:d:-	1	XLD	Typical	CFX	Salmonella enterica (l) 4.[5].12:d:-	na	IA
CTS_513	Salmonella	enterica	enterica	4,[5],12:d:-	1	NA	na	OPUS	Salmonella enterica (l) 4.[5].12:d:-	na	IA
CTS_513	Salmonella	enterica	enterica	4,[5],12:d:-	1	XLD	Typical	OPUS	Salmonella enterica (l) 4.[5].12:d:-	na	IA
CTS_576	Salmonella	enterica	enterica	47:z4,z23:-	1	NA	na	CFX	Salmonella enterica (l) 47:z4.z23:-	na	IA
CTS_576	Salmonella	enterica	enterica	47:z4,z23:-	1	XLD	Typical	CFX	Salmonella enterica (l) 47:z4.z23:-	na	IA
CTS_576	Salmonella	enterica	enterica	47:z4,z23:-	1	NA	na	OPUS	Salmonella enterica (l) 47:z4.z23:-	na	IA
CTS_576	Salmonella	enterica	enterica	47:z4,z23:-	1	XLD	Typical	OPUS	Salmonella enterica (l) 47:z4.z23:-	na	IA

CTS_681	Salmonella	enterica	enterica	47:z4,z23:-	1	NA	na	CFX	Salmonella enterica (l) 47:z4.z23:-	na	IA
CTS_681	Salmonella	enterica	enterica	47:z4,z23:-	1	XLD	Typical	CFX	Salmonella enterica (l) 47:z4.z23:-	na	IA
CTS_681	Salmonella	enterica	enterica	47:z4,z23:-	1	NA	na	OPUS	Salmonella enterica (l) 47:z4.z23:-	na	IA
CTS_681	Salmonella	enterica	enterica	47:z4,z23:-	1	XLD	Typical	OPUS	Salmonella enterica (l) 47:z4.z23:-	na	IA
CTS_722	Salmonella	enterica	enterica	47:z4,z23:-	1	NA	na	CFX	Salmonella enterica (l) 47:z4.z23:-	na	IA
CTS_722	Salmonella	enterica	enterica	47:z4,z23:-	1	XLD	Typical	CFX	Salmonella enterica (l) 47:z4.z23:-	na	IA
CTS_722	Salmonella	enterica	enterica	47:z4,z23:-	1	NA	na	OPUS	Salmonella enterica (l) 47:z4.z23:-	na	IA
CTS_722	Salmonella	enterica	enterica	47:z4,z23:-	1	XLD	Typical	OPUS	Salmonella enterica (l) 47:z4.z23:-	na	IA
CTS_777	Salmonella	enterica	enterica	47:z4,z23:-	1	NA	na	CFX	Salmonella enterica (l) 47:z4.z23:-	na	IA
CTS_777	Salmonella	enterica	enterica	47:z4,z23:-	1	XLD	Typical	CFX	Salmonella enterica (l) 47:z4.z23:-	na	IA
CTS_777	Salmonella	enterica	enterica	47:z4,z23:-	1	NA	na	OPUS	Salmonella enterica (l) 47:z4.z23:-	na	IA
CTS_777	Salmonella	enterica	enterica	47:z4,z23:-	1	XLD	Typical	OPUS	Salmonella enterica (l) 47:z4.z23:-	na	IA
CTS_821	Salmonella	enterica	enterica	47:z4,z23:-	1	NA	na	CFX	Salmonella enterica (l) 47:z4.z23:-	na	IA
CTS_821	Salmonella	enterica	enterica	47:z4,z23:-	1	XLD	Typical	CFX	Salmonella positive, Genovar 4XGYT1	na	- Repeat
CTS_821	Salmonella	enterica	enterica	47:z4,z23:-	2	XLD	Typical	CFX	Salmonella enterica (l) 47:z4.z23:-	na	IA
CTS_821	Salmonella	enterica	enterica	47:z4,z23:-	1	NA	na	OPUS	Salmonella enterica (l) 47:z4.z23:-	na	IA
CTS_821	Salmonella	enterica	enterica	47:z4,z23:-	1	XLD	Typical	OPUS	Salmonella positive, Genovar 4SRYT1	na	- Repeat
CTS_821	Salmonella	enterica	enterica	47:z4,z23:-	2	XLD	Typical	OPUS	Salmonella enterica (l) 47:z4.z23:-	na	IA

CTS_020	Salmonella	enterica	enterica	Abaetetuba	1	NA	na	CFX	Salmonella Abaetetuba	IA	IA
CTS_020	Salmonella	enterica	enterica	Abaetetuba	1	XLD	Typical	CFX	Salmonella Abaetetuba	IA	IA
CTS_020	Salmonella	enterica	enterica	Abaetetuba	1	NA	na	OPUS	Salmonella Abaetetuba	IA	IA
CTS_020	Salmonella	enterica	enterica	Abaetetuba	1	XLD	Typical	OPUS	Salmonella Abaetetuba	IA	IA
CTS_021	Salmonella	enterica	enterica	Abaetetuba	1	NA	na	CFX	Salmonella Abaetetuba	na	IA
CTS_021	Salmonella	enterica	enterica	Abaetetuba	1	XLD	Typical	CFX	Salmonella Abaetetuba	na	IA
CTS_021	Salmonella	enterica	enterica	Abaetetuba	1	NA	na	OPUS	Salmonella Abaetetuba	na	IA
CTS_021	Salmonella	enterica	enterica	Abaetetuba	1	XLD	Typical	OPUS	Salmonella Abaetetuba	na	IA
CTS_022	Salmonella	enterica	enterica	Abaetetuba	1	NA	na	CFX	Salmonella Abaetetuba	na	IA
CTS_022	Salmonella	enterica	enterica	Abaetetuba	1	XLD	Typical	CFX	Salmonella Abaetetuba	na	IA
CTS_022	Salmonella	enterica	enterica	Abaetetuba	1	NA	na	OPUS	Salmonella Abaetetuba	na	IA
CTS_022	Salmonella	enterica	enterica	Abaetetuba	1	XLD	Typical	OPUS	Salmonella Abaetetuba	na	IA
CTS_822	Salmonella	enterica	enterica	Abaetetuba	1	NA	na	CFX	Salmonella Abaetetuba	na	IA
CTS_822	Salmonella	enterica	enterica	Abaetetuba	1	XLD	Typical	CFX	Salmonella positive, Genovar CSXJ1	na	- Repeat
CTS_822	Salmonella	enterica	enterica	Abaetetuba	2	XLD	Typical	CFX	Salmonella Abaetetuba	na	IA
CTS_822	Salmonella	enterica	enterica	Abaetetuba	1	NA	na	OPUS	Salmonella Abaetetuba	na	IA
CTS_822	Salmonella	enterica	enterica	Abaetetuba	1	XLD	Typical	OPUS	Salmonella Abaetetuba	na	IA
CTS_823	Salmonella	enterica	enterica	Abaetetuba	1	NA	na	CFX	Salmonella Abaetetuba	na	IA

CTS_823	Salmonella	enterica	enterica	Abaetetuba	1	XLD	Typical	CFX	Salmonella Abaetetuba	na	IA
CTS_823	Salmonella	enterica	enterica	Abaetetuba	1	NA	na	OPUS	Salmonella Abaetetuba	na	IA
CTS_823	Salmonella	enterica	enterica	Abaetetuba	1	XLD	Typical	OPUS	Salmonella Abaetetuba	na	IA
CTS_558	Salmonella	enterica	enterica	Aberdeen	1	NA	na	CFX	Salmonella Aberdeen	na	IA
CTS_558	Salmonella	enterica	enterica	Aberdeen	1	XLD	Typical	CFX	Salmonella Aberdeen	na	IA
CTS_558	Salmonella	enterica	enterica	Aberdeen	1	NA	na	OPUS	Salmonella Aberdeen	na	IA
CTS_558	Salmonella	enterica	enterica	Aberdeen	1	XLD	Typical	OPUS	Salmonella Aberdeen	na	IA
CTS_687	Salmonella	enterica	enterica	Aberdeen	1	NA	na	CFX	Salmonella Aberdeen	na	IA
CTS_687	Salmonella	enterica	enterica	Aberdeen	1	XLD	Typical	CFX	Salmonella Aberdeen	na	IA
CTS_687	Salmonella	enterica	enterica	Aberdeen	1	NA	na	OPUS	Salmonella Aberdeen	na	IA
CTS_687	Salmonella	enterica	enterica	Aberdeen	1	XLD	Typical	OPUS	Salmonella Aberdeen	na	IA
CTS_783	Salmonella	enterica	enterica	Aberdeen	1	NA	na	CFX	Salmonella Aberdeen	na	IA
CTS_783	Salmonella	enterica	enterica	Aberdeen	1	XLD	Typical	CFX	Salmonella Aberdeen	na	IA
CTS_783	Salmonella	enterica	enterica	Aberdeen	1	NA	na	OPUS	Salmonella Aberdeen	na	IA
CTS_783	Salmonella	enterica	enterica	Aberdeen	1	XLD	Typical	OPUS	Salmonella Aberdeen	na	IA
CTS_824	Salmonella	enterica	enterica	Aberdeen	1	NA	na	CFX	Salmonella Aberdeen	na	IA
CTS_824	Salmonella	enterica	enterica	Aberdeen	1	XLD	Typical	CFX	Salmonella Aberdeen	na	IA
CTS_824	Salmonella	enterica	enterica	Aberdeen	1	NA	na	OPUS	Salmonella Aberdeen	na	IA
CTS_824	Salmonella	enterica	enterica	Aberdeen	1	XLD	Typical	OPUS	Salmonella Aberdeen	na	IA
CTS_825	Salmonella	enterica	enterica	Aberdeen	1	NA	na	CFX	Salmonella Aberdeen	na	IA
CTS_825	Salmonella	enterica	enterica	Aberdeen	1	XLD	Typical	CFX	Salmonella Aberdeen	na	IA
CTS_825	Salmonella	enterica	enterica	Aberdeen	1	NA	na	OPUS	Salmonella Aberdeen	na	IA
CTS_825	Salmonella	enterica	enterica	Aberdeen	1	XLD	Typical	OPUS	Salmonella Aberdeen	na	IA
CTS_686	Salmonella	enterica	enterica	Abortusovis	1	NA	na	CFX	Salmonella Abortusovis	na	IA
CTS_686	Salmonella	enterica	enterica	Abortusovis	1	XLD	Typical	CFX	Salmonella Abortusovis	na	IA
CTS_686	Salmonella	enterica	enterica	Abortusovis	1	NA	na	OPUS	Salmonella Abortusovis	na	IA
CTS_686	Salmonella	enterica	enterica	Abortusovis	1	XLD	Typical	OPUS	Salmonella Abortusovis	na	IA
CTS_764	Salmonella	enterica	enterica	Abortusovis	1	NA	na	CFX	Salmonella Abortusovis	na	IA



CTS_764	Salmonella	enterica	enterica	Abortusovis	1	XLD	Typical	CFX	Salmonella Abortusovis	na	IA
CTS_764	Salmonella	enterica	enterica	Abortusovis	1	NA	na	OPUS	Salmonella Abortusovis	na	IA
CTS_764	Salmonella	enterica	enterica	Abortusovis	1	XLD	Typical	OPUS	Salmonella Abortusovis	na	IA
CTS_776	Salmonella	enterica	enterica	Abortusovis	1	NA	na	CFX	Salmonella Abortusovis	na	IA
CTS_776	Salmonella	enterica	enterica	Abortusovis	1	XLD	Typical	CFX	Salmonella Abortusovis	na	IA
CTS_776	Salmonella	enterica	enterica	Abortusovis	1	NA	na	OPUS	Salmonella Abortusovis	na	IA
CTS_776	Salmonella	enterica	enterica	Abortusovis	1	XLD	Typical	OPUS	Salmonella Abortusovis	na	IA
CTS_826	Salmonella	enterica	enterica	Adelaide	1	NA	na	CFX	Salmonella positive, Genovar 4SGPJ1	na	inconclusive result CTS_828 added
CTS_826	Salmonella	enterica	enterica	Adelaide	1	XLD	Typical	CFX	Salmonella positive, Genovar 4SGPJ1	na	inconclusive result CTS_828 added
CTS_826	Salmonella	enterica	enterica	Adelaide	1	NA	na	OPUS	Salmonella positive, Genovar 4SGPJ1	na	inconclusive result CTS_828 added
CTS_826	Salmonella	enterica	enterica	Adelaide	1	XLD	Typical	OPUS	Salmonella positive, Genovar 4SGPJ1	na	inconclusive result CTS_828 added
CTS_766	Salmonella	enterica	enterica	Adelaide	1	NA	na	CFX	Salmonella Adelaide	na	IA
CTS_766	Salmonella	enterica	enterica	Adelaide	1	XLD	Typical	CFX	Salmonella Adelaide	na	IA
CTS_766	Salmonella	enterica	enterica	Adelaide	1	NA	na	OPUS	Salmonella Adelaide	na	IA
CTS_766	Salmonella	enterica	enterica	Adelaide	1	XLD	Typical	OPUS	Salmonella Adelaide	na	IA
CTS_799	Salmonella	enterica	enterica	Adelaide	1	NA	na	CFX	Salmonella Adelaide	na	IA
CTS_799	Salmonella	enterica	enterica	Adelaide	1	XLD	Typical	CFX	Salmonella Adelaide	na	IA
CTS_799	Salmonella	enterica	enterica	Adelaide	1	NA	na	OPUS	Salmonella Adelaide	na	IA
CTS_799	Salmonella	enterica	enterica	Adelaide	1	XLD	Typical	OPUS	Salmonella Adelaide	na	IA
CTS_827	Salmonella	enterica	enterica	Adelaide	1	NA	na	CFX	Salmonella Adelaide	na	IA
CTS_827	Salmonella	enterica	enterica	Adelaide	1	XLD	Typical	CFX	Salmonella Adelaide	na	IA
CTS_827	Salmonella	enterica	enterica	Adelaide	1	NA	na	OPUS	Salmonella Adelaide	na	IA
CTS_827	Salmonella	enterica	enterica	Adelaide	1	XLD	Typical	OPUS	Salmonella Adelaide	na	IA
CTS_828	Salmonella	enterica	enterica	Adelaide	1	NA	na	CFX	Salmonella positive, Genovar 4SGPP1	na	inconclusive result Test (typing) was not repeated; CTS_829 added

CTS_828	Salmonella	enterica	enterica	Adelaide	1	XLD	Typical	CFX	Salmonella positive, Genovar 4SGPP1	na	inconclusive result	Test (typing) was not repeated; CTS_829 added
CTS_828	Salmonella	enterica	enterica	Adelaide	1	NA	na	OPUS	Salmonella positive, Genovar 4SGPP1	na	inconclusive result	Test (typing) was not repeated; CTS_829 added
CTS_828	Salmonella	enterica	enterica	Adelaide	1	XLD	Typical	OPUS	Salmonella positive, Genovar 4SGPP1	na	inconclusive result	Test (typing) was not repeated; CTS_829 added
CTS_829	Salmonella	enterica	enterica	Adelaide	1	NA	na	CFX	Salmonella positive, Genovar 4RM2P1	na	inconclusive result	Test (typing) was not repeated
CTS_829	Salmonella	enterica	enterica	Adelaide	1	XLD	Typical	CFX	Salmonella positive, Genovar 4RM2P1	na	inconclusive result	Test (typing) was not repeated
CTS_829	Salmonella	enterica	enterica	Adelaide	1	NA	na	OPUS	Salmonella positive, Genovar 4RM2P1	na	inconclusive result	Test (typing) was not repeated
CTS_829	Salmonella	enterica	enterica	Adelaide	1	XLD	Typical	OPUS	Salmonella positive, Genovar 4RM2P1	na	inconclusive result	Test (typing) was not repeated
CTS_830	Salmonella	enterica	enterica	Agama	1	NA	na	CFX	Salmonella Agama	na	IA	
CTS_830	Salmonella	enterica	enterica	Agama	1	XLD	Typical	CFX	Salmonella Agama	na	IA	
CTS_830	Salmonella	enterica	enterica	Agama	1	NA	na	OPUS	Salmonella Agama	na	IA	
CTS_830	Salmonella	enterica	enterica	Agama	1	XLD	Typical	OPUS	Salmonella Agama	na	IA	
CTS_626	Salmonella	enterica	enterica	Agama	1	NA	na	CFX	Salmonella Agama	na	IA	
CTS_626	Salmonella	enterica	enterica	Agama	1	XLD	Typical	CFX	Salmonella Agama	na	IA	
CTS_626	Salmonella	enterica	enterica	Agama	1	NA	na	OPUS	Salmonella Agama	na	IA	
CTS_626	Salmonella	enterica	enterica	Agama	1	XLD	Typical	OPUS	Salmonella Agama	na	IA	
CTS_655	Salmonella	enterica	enterica	Agama	1	NA	na	CFX	Salmonella Agama	na	IA	
CTS_655	Salmonella	enterica	enterica	Agama	1	XLD	Typical	CFX	Salmonella Agama	na	IA	
CTS_655	Salmonella	enterica	enterica	Agama	1	NA	na	OPUS	Salmonella Agama	na	IA	
CTS_655	Salmonella	enterica	enterica	Agama	1	XLD	Typical	OPUS	Salmonella Agama	na	IA	
CTS_679	Salmonella	enterica	enterica	Agama	1	NA	na	CFX	Salmonella Agama	na	IA	
CTS_679	Salmonella	enterica	enterica	Agama	1	XLD	Typical	CFX	Salmonella Agama	na	IA	
CTS_679	Salmonella	enterica	enterica	Agama	1	NA	na	OPUS	Salmonella Agama	na	IA	
CTS_679	Salmonella	enterica	enterica	Agama	1	XLD	Typical	OPUS	Salmonella Agama	na	IA	
CTS_771	Salmonella	enterica	enterica	Agama	1	NA	na	CFX	Salmonella Agama	na	IA	
CTS_771	Salmonella	enterica	enterica	Agama	1	XLD	Typical	CFX	Salmonella positive. Inconclusive typing result	na	-	Repeat test



CTS_771	Salmonella	enterica	enterica	Agama	2	XLD	Typical	CFX	Salmonella Agama	na	IA
CTS_771	Salmonella	enterica	enterica	Agama	1	NA	na	OPUS	Salmonella Agama	na	IA
CTS_771	Salmonella	enterica	enterica	Agama	1	XLD	Typical	OPUS	Salmonella Agama	na	IA
CTS_830	Salmonella	enterica	enterica	Agona	1	NA	na	CFX	Salmonella Agona	na	IA
CTS_830	Salmonella	enterica	enterica	Agona	1	XLD	Typical	CFX	Salmonella Agona	na	IA
CTS_830	Salmonella	enterica	enterica	Agona	1	NA	na	OPUS	Salmonella Agona	na	IA
CTS_830	Salmonella	enterica	enterica	Agona	1	XLD	Typical	OPUS	Reaction not OK	na	- Repeat test
CTS_830	Salmonella	enterica	enterica	Agona	2	XLD	Typical	Opus	Salmonella positive, Genovar 6XGPP1	na	inconclusive result CTS_831 added
CTS_025	Salmonella	enterica	enterica	Agona	1	NA	na	CFX	Salmonella Agona	IA	IA
CTS_025	Salmonella	enterica	enterica	Agona	1	XLD	Typical	CFX	Salmonella Agona	IA	IA
CTS_025	Salmonella	enterica	enterica	Agona	1	NA	na	OPUS	Salmonella Agona	IA	IA
CTS_025	Salmonella	enterica	enterica	Agona	1	XLD	Typical	OPUS	Salmonella Agona	IA	IA
CTS_026	Salmonella	enterica	enterica	Agona	1	NA	na	CFX	Salmonella Agona	na	IA
CTS_026	Salmonella	enterica	enterica	Agona	1	XLD	Typical	CFX	Salmonella Agona	na	IA
CTS_026	Salmonella	enterica	enterica	Agona	1	NA	na	OPUS	Salmonella Agona	na	IA
CTS_026	Salmonella	enterica	enterica	Agona	1	XLD	Typical	OPUS	Salmonella Agona	na	IA
CTS_027	Salmonella	enterica	enterica	Agona	1	NA	na	CFX	Salmonella Agona	IA	IA
CTS_027	Salmonella	enterica	enterica	Agona	1	XLD	Typical	CFX	Salmonella Agona	IA	IA
CTS_027	Salmonella	enterica	enterica	Agona	1	NA	na	OPUS	Salmonella Agona	IA	IA
CTS_027	Salmonella	enterica	enterica	Agona	1	XLD	Typical	OPUS	Salmonella Agona	IA	IA
CTS_028	Salmonella	enterica	enterica	Agona	1	NA	na	CFX	Salmonella Agona	na	IA
CTS_028	Salmonella	enterica	enterica	Agona	1	XLD	Typical	CFX	Salmonella Agona	na	IA
CTS_028	Salmonella	enterica	enterica	Agona	1	NA	na	OPUS	Salmonella Agona	na	IA
CTS_028	Salmonella	enterica	enterica	Agona	1	XLD	Typical	OPUS	Salmonella Agona	na	IA
CTS_831	Salmonella	enterica	enterica	Agona	1	NA	na	CFX	Salmonella Agona	na	IA
CTS_831	Salmonella	enterica	enterica	Agona	1	XLD	Typical	CFX	Salmonella Agona	na	IA
CTS_831	Salmonella	enterica	enterica	Agona	1	NA	na	OPUS	Salmonella Agona	na	IA
CTS_831	Salmonella	enterica	enterica	Agona	1	XLD	Typical	OPUS	Salmonella Agona	na	IA
CTS_832	Salmonella	enterica	enterica	Alachua	1	NA	na	CFX	Salmonella Alachua	na	IA
CTS_832	Salmonella	enterica	enterica	Alachua	1	XLD	Typical	CFX	Salmonella positive, Genovar MRNJM1	na	- Repeat test
CTS_832	Salmonella	enterica	enterica	Alachua	2	XLD	Typical	CFX	Salmonella Alachua	na	IA
CTS_832	Salmonella	enterica	enterica	Alachua	1	NA	na	OPUS	Salmonella Alachua	na	IA
CTS_832	Salmonella	enterica	enterica	Alachua	1	XLD	Typical	OPUS	Salmonella Alachua	na	IA
CTS_030	Salmonella	enterica	enterica	Alachua	1	NA	na	CFX	Salmonella Alachua	IA	IA
CTS_030	Salmonella	enterica	enterica	Alachua	1	XLD	Typical	CFX	Salmonella Alachua	IA	IA



CTS_030	Salmonella	enterica	enterica	Alachua	1	NA	na	OPUS	Salmonella Alachua	IA	IA
CTS_030	Salmonella	enterica	enterica	Alachua	1	XLD	Typical	OPUS	Salmonella Alachua	IA	IA
CTS_031	Salmonella	enterica	enterica	Alachua	1	NA	na	CFX	Salmonella Alachua	na	IA
CTS_031	Salmonella	enterica	enterica	Alachua	1	XLD	Typical	CFX	Salmonella Alachua	na	IA
CTS_031	Salmonella	enterica	enterica	Alachua	1	NA	na	OPUS	Salmonella Alachua	na	IA
CTS_031	Salmonella	enterica	enterica	Alachua	1	XLD	Typical	OPUS	Salmonella Alachua	na	IA
CTS_032	Salmonella	enterica	enterica	Alachua	1	NA	na	CFX	Salmonella Alachua	na	IA
CTS_032	Salmonella	enterica	enterica	Alachua	1	XLD	Typical	CFX	Salmonella Alachua	na	IA
CTS_032	Salmonella	enterica	enterica	Alachua	1	NA	na	OPUS	Salmonella Alachua	na	IA
CTS_032	Salmonella	enterica	enterica	Alachua	1	XLD	Typical	OPUS	Salmonella Alachua	na	IA
CTS_033	Salmonella	enterica	enterica	Alachua	1	NA	na	CFX	Salmonella Alachua	na	IA
CTS_033	Salmonella	enterica	enterica	Alachua	1	XLD	Typical	CFX	Salmonella Alachua	na	IA
CTS_033	Salmonella	enterica	enterica	Alachua	1	NA	na	OPUS	Salmonella Alachua	na	IA
CTS_033	Salmonella	enterica	enterica	Alachua	1	XLD	Typical	OPUS	Salmonella Alachua	na	IA
CTS_833	Salmonella	enterica	enterica	Albany	1	NA	na	CFX	Salmonella Albany	na	IA
CTS_833	Salmonella	enterica	enterica	Albany	1	XLD	Typical	CFX	Salmonella Albany	na	IA
CTS_833	Salmonella	enterica	enterica	Albany	1	NA	na	OPUS	Salmonella Albany	na	IA
CTS_833	Salmonella	enterica	enterica	Albany	1	XLD	Typical	OPUS	Salmonella Albany	na	IA
CTS_035	Salmonella	enterica	enterica	Albany	1	NA	na	CFX	Salmonella Albany	IA	IA
CTS_035	Salmonella	enterica	enterica	Albany	1	XLD	Typical	CFX	Salmonella Albany	IA	IA
CTS_035	Salmonella	enterica	enterica	Albany	1	NA	na	OPUS	Salmonella Albany	IA	IA
CTS_035	Salmonella	enterica	enterica	Albany	1	XLD	Typical	OPUS	Salmonella Albany	IA	IA
CTS_036	Salmonella	enterica	enterica	Albany	1	NA	na	CFX	Salmonella Albany	na	IA
CTS_036	Salmonella	enterica	enterica	Albany	1	XLD	Typical	CFX	Salmonella Albany	na	IA
CTS_036	Salmonella	enterica	enterica	Albany	1	NA	na	OPUS	Salmonella Albany	na	IA
CTS_036	Salmonella	enterica	enterica	Albany	1	XLD	Typical	OPUS	Salmonella Albany	na	IA
CTS_037	Salmonella	enterica	enterica	Albany	1	NA	na	CFX	Salmonella Albany	na	IA
CTS_037	Salmonella	enterica	enterica	Albany	1	XLD	Typical	CFX	Salmonella Albany	na	IA
CTS_037	Salmonella	enterica	enterica	Albany	1	NA	na	OPUS	Salmonella Albany	na	IA
CTS_037	Salmonella	enterica	enterica	Albany	1	XLD	Typical	OPUS	Salmonella Albany	na	IA
CTS_038	Salmonella	enterica	enterica	Albany	1	NA	na	CFX	Salmonella Albany	na	IA
CTS_038	Salmonella	enterica	enterica	Albany	1	XLD	Typical	CFX	Salmonella Albany	na	IA
CTS_038	Salmonella	enterica	enterica	Albany	1	NA	na	OPUS	Salmonella positive, Genovar 4SMPP1	na	- Repeat test
CTS_038	Salmonella	enterica	enterica	Albany	2	NA	na	OPUS	Salmonella Albany	na	IA
CTS_038	Salmonella	enterica	enterica	Albany	1	XLD	Typical	OPUS	Salmonella Albany	na	IA
CTS_834	Salmonella	enterica	enterica	Altona	1	NA	na	CFX	Salmonella Altona	na	IA



CTS_834	Salmonella	enterica	enterica	Altona	1	XLD	Typical	CFX	Salmonella Altona	na	IA
CTS_834	Salmonella	enterica	enterica	Altona	1	NA	na	OPUS	Salmonella Altona	na	IA
CTS_834	Salmonella	enterica	enterica	Altona	1	XLD	Typical	OPUS	Salmonella Altona	na	IA
CTS_835	Salmonella	enterica	enterica	Altona	1	NA	na	CFX	Salmonella Altona	na	IA
CTS_835	Salmonella	enterica	enterica	Altona	1	XLD	Typical	CFX	Salmonella Altona	na	IA
CTS_835	Salmonella	enterica	enterica	Altona	1	NA	na	OPUS	Salmonella Altona	na	IA
CTS_835	Salmonella	enterica	enterica	Altona	1	XLD	Typical	OPUS	Salmonella Altona	na	IA
CTS_836	Salmonella	enterica	enterica	Altona	1	NA	na	CFX	Salmonella Altona	na	IA
CTS_836	Salmonella	enterica	enterica	Altona	1	XLD	Typical	CFX	Salmonella Altona	na	IA
CTS_836	Salmonella	enterica	enterica	Altona	1	NA	na	OPUS	Salmonella Altona	na	IA
CTS_836	Salmonella	enterica	enterica	Altona	1	XLD	Typical	OPUS	Salmonella Altona	na	IA
CTS_612	Salmonella	enterica	enterica	Altona	1	NA	na	CFX	Salmonella Altona	na	IA
CTS_612	Salmonella	enterica	enterica	Altona	1	XLD	Typical	CFX	Salmonella positive, Genovar EXJKP1	na	- Repeat test
CTS_612	Salmonella	enterica	enterica	Altona	2	XLD	Typical	CFX	Salmonella Altona	na	IA
CTS_612	Salmonella	enterica	enterica	Altona	1	NA	na	OPUS	Salmonella Altona	na	IA
CTS_612	Salmonella	enterica	enterica	Altona	1	XLD	Typical	OPUS	Salmonella positive, Genovar CSJVP1	na	- Repeat test
CTS_612	Salmonella	enterica	enterica	Altona	2	XLD	Typical	OPUS	Salmonella Altona	na	IA
CTS_633	Salmonella	enterica	enterica	Altona	1	NA	na	CFX	Salmonella Altona	na	IA
CTS_633	Salmonella	enterica	enterica	Altona	1	XLD	Typical	CFX	Salmonella Altona	na	IA
CTS_633	Salmonella	enterica	enterica	Altona	1	NA	na	OPUS	Salmonella Altona	na	IA
CTS_633	Salmonella	enterica	enterica	Altona	1	XLD	Typical	OPUS	Salmonella Altona	na	IA
CTS_837	Salmonella	enterica	enterica	Amsterdam	1	NA	na	CFX	Salmonella Amsterdam	na	IA
CTS_837	Salmonella	enterica	enterica	Amsterdam	1	XLD	Typical	CFX	Salmonella Amsterdam	na	IA
CTS_837	Salmonella	enterica	enterica	Amsterdam	1	NA	na	OPUS	Salmonella Amsterdam	na	IA
CTS_837	Salmonella	enterica	enterica	Amsterdam	1	XLD	Typical	OPUS	Salmonella Amsterdam	na	IA
CTS_838	Salmonella	enterica	enterica	Amsterdam	1	NA	na	CFX	Salmonella Amsterdam	na	IA
CTS_838	Salmonella	enterica	enterica	Amsterdam	1	XLD	Typical	CFX	Salmonella Amsterdam	na	IA
CTS_838	Salmonella	enterica	enterica	Amsterdam	1	NA	na	OPUS	Salmonella Amsterdam	na	IA

CTS_838	Salmonella	enterica	enterica	Amsterdam	1	XLD	Typical	OPUS	Salmonella Amsterdam	na	IA
CTS_579	Salmonella	enterica	enterica	Amsterdam	1	NA	na	CFX	Salmonella positive, Genovar 4XJEYH	na	- Repeat test
CTS_579	Salmonella	enterica	enterica	Amsterdam	2	NA	na	CFX	Salmonella Amsterdam	na	IA
CTS_579	Salmonella	enterica	enterica	Amsterdam	1	XLD	Typical	CFX	Salmonella Amsterdam	na	IA
CTS_579	Salmonella	enterica	enterica	Amsterdam	1	NA	na	OPUS	Salmonella Amsterdam	na	IA
CTS_579	Salmonella	enterica	enterica	Amsterdam	1	XLD	Typical	OPUS	Salmonella Amsterdam	na	IA
CTS_677	Salmonella	enterica	enterica	Amsterdam	1	NA	na	CFX	Salmonella Amsterdam	na	IA
CTS_677	Salmonella	enterica	enterica	Amsterdam	1	XLD	Typical	CFX	Salmonella Amsterdam	na	IA
CTS_677	Salmonella	enterica	enterica	Amsterdam	1	NA	na	OPUS	Salmonella Amsterdam	na	IA
CTS_677	Salmonella	enterica	enterica	Amsterdam	1	XLD	Typical	OPUS	Salmonella Amsterdam	na	IA
CTS_694	Salmonella	enterica	enterica	Amsterdam	1	NA	na	CFX	Salmonella Amsterdam	na	IA
CTS_694	Salmonella	enterica	enterica	Amsterdam	1	XLD	Typical	CFX	Salmonella Amsterdam	na	IA
CTS_694	Salmonella	enterica	enterica	Amsterdam	1	NA	na	OPUS	Salmonella Amsterdam	na	IA
CTS_694	Salmonella	enterica	enterica	Amsterdam	1	XLD	Typical	OPUS	Salmonella Amsterdam	na	IA
CTS_839	Salmonella	enterica	enterica	Anatum	1	NA	na	CFX	Salmonella Anatum	IA	IA
CTS_839	Salmonella	enterica	enterica	Anatum	1	XLD	Typical	CFX	Salmonella Anatum	IA	IA
CTS_839	Salmonella	enterica	enterica	Anatum	1	NA	na	OPUS	Salmonella Anatum	IA	IA
CTS_839	Salmonella	enterica	enterica	Anatum	1	XLD	Typical	OPUS	Salmonella Anatum	IA	IA
CTS_039	Salmonella	enterica	enterica	Anatum	1	NA	na	CFX	Salmonella Anatum	IA	IA
CTS_039	Salmonella	enterica	enterica	Anatum	1	XLD	Typical	CFX	Salmonella Anatum	IA	IA
CTS_039	Salmonella	enterica	enterica	Anatum	1	NA	na	OPUS	Salmonella Anatum	IA	IA
CTS_039	Salmonella	enterica	enterica	Anatum	1	XLD	Typical	OPUS	Salmonella Anatum	IA	IA
CTS_041	Salmonella	enterica	enterica	Anatum	1	NA	na	CFX	Salmonella Anatum	na	IA



CTS_041	Salmonella	enterica	enterica	Anatum	1	XLD	Typical	CFX	Salmonella Anatum	na	IA
CTS_041	Salmonella	enterica	enterica	Anatum	1	NA	na	OPUS	Salmonella Anatum	na	IA
CTS_041	Salmonella	enterica	enterica	Anatum	1	XLD	Typical	OPUS	Salmonella Anatum	na	IA
CTS_042	Salmonella	enterica	enterica	Anatum	1	NA	na	CFX	Salmonella Anatum	na	IA
CTS_042	Salmonella	enterica	enterica	Anatum	1	XLD	Typical	CFX	Salmonella Anatum	na	IA
CTS_042	Salmonella	enterica	enterica	Anatum	1	NA	na	OPUS	Salmonella Anatum	na	IA
CTS_042	Salmonella	enterica	enterica	Anatum	1	XLD	Typical	OPUS	Salmonella Anatum	na	IA
CTS_043	Salmonella	enterica	enterica	Anatum	1	NA	na	CFX	Salmonella Anatum	na	IA
CTS_043	Salmonella	enterica	enterica	Anatum	1	XLD	Typical	CFX	Salmonella Anatum	na	IA
CTS_043	Salmonella	enterica	enterica	Anatum	1	NA	na	OPUS	Salmonella Anatum	na	IA
CTS_043	Salmonella	enterica	enterica	Anatum	1	XLD	Typical	OPUS	Salmonella Anatum	na	IA
CTS_840	Salmonella	enterica	enterica	Banana	1	NA	na	CFX	Salmonella Banana	na	IA
CTS_840	Salmonella	enterica	enterica	Banana	1	XLD	Typical	CFX	Salmonella Banana	na	IA
CTS_840	Salmonella	enterica	enterica	Banana	1	NA	na	OPUS	Salmonella Banana	na	IA
CTS_840	Salmonella	enterica	enterica	Banana	1	XLD	Typical	OPUS	Salmonella Banana	na	IA
CTS_841	Salmonella	enterica	enterica	Banana	1	NA	na	CFX	Salmonella Banana	na	IA
CTS_841	Salmonella	enterica	enterica	Banana	1	XLD	Typical	CFX	Salmonella Banana	na	IA
CTS_841	Salmonella	enterica	enterica	Banana	1	NA	na	OPUS	Salmonella Banana	na	IA
CTS_841	Salmonella	enterica	enterica	Banana	1	XLD	Typical	OPUS	Salmonella Banana	na	IA
CTS_661	Salmonella	enterica	enterica	Banana	1	NA	na	CFX	Salmonella Banana	na	IA
CTS_661	Salmonella	enterica	enterica	Banana	1	XLD	Typical	CFX	Salmonella Banana	na	IA
CTS_661	Salmonella	enterica	enterica	Banana	1	NA	na	OPUS	Salmonella Banana	na	IA
CTS_661	Salmonella	enterica	enterica	Banana	1	XLD	Typical	OPUS	Salmonella positive, Genovar 6SHKW1	na	- Repeat test
CTS_661	Salmonella	enterica	enterica	Banana	2	XLD	Typical	OPUS	Salmonella Banana	na	IA
CTS_842	Salmonella	enterica	enterica	Banana	1	NA	na	CFX	Salmonella positive, Genovar 6RG6P1	na	inconclusive result CTS_431 added
CTS_842	Salmonella	enterica	enterica	Banana	1	XLD	Typical	CFX	Salmonella positive, Genovar 6RG6P1	na	inconclusive result CTS_431 added
CTS_842	Salmonella	enterica	enterica	Banana	1	NA	na	OPUS	Salmonella positive, Genovar 6RG6P1	na	inconclusive result CTS_431 added
CTS_842	Salmonella	enterica	enterica	Banana	1	XLD	Typical	OPUS	Reaction not OK	na	- Repeat
CTS_842	Salmonella	enterica	enterica	Banana	2	XLD	Typical	OPUS	Salmonella positive, Genovar 6RG6P1	na	inconclusive result CTS_431 added
CTS_843	Salmonella	enterica	enterica	Banana	1	NA	na	CFX	Salmonella Banana	na	IA
CTS_843	Salmonella	enterica	enterica	Banana	1	XLD	Typical	CFX	Salmonella Banana	na	IA
CTS_843	Salmonella	enterica	enterica	Banana	1	NA	na	OPUS	Salmonella Banana	na	IA



CTS_843	Salmonella	enterica	enterica	Banana	1	XLD	Typical	Opus	Salmonella Banana	na	IA
CTS_844	Salmonella	enterica	enterica	Bareilly	1	NA	na	CFX	Salmonella Bareilly	na	IA
CTS_844	Salmonella	enterica	enterica	Bareilly	1	XLD	Typical	CFX	Salmonella Bareilly	na	IA
CTS_844	Salmonella	enterica	enterica	Bareilly	1	NA	na	OPUS	Salmonella Bareilly	na	IA
CTS_844	Salmonella	enterica	enterica	Bareilly	1	XLD	Typical	OPUS	Salmonella Bareilly	na	IA
CTS_845	Salmonella	enterica	enterica	Bareilly	1	NA	na	CFX	Salmonella Bareilly	na	IA
CTS_845	Salmonella	enterica	enterica	Bareilly	1	XLD	Typical	CFX	Salmonella Bareilly	na	IA
CTS_845	Salmonella	enterica	enterica	Bareilly	1	NA	na	OPUS	Salmonella Bareilly	na	IA
CTS_845	Salmonella	enterica	enterica	Bareilly	1	XLD	Typical	OPUS	Salmonella Bareilly	na	IA
CTS_846	Salmonella	enterica	enterica	Bareilly	1	NA	na	CFX	Salmonella Bareilly	na	IA
CTS_846	Salmonella	enterica	enterica	Bareilly	1	XLD	Typical	CFX	Salmonella Bareilly	na	IA
CTS_846	Salmonella	enterica	enterica	Bareilly	1	NA	na	OPUS	Salmonella Bareilly	na	IA
CTS_846	Salmonella	enterica	enterica	Bareilly	1	XLD	Typical	OPUS	Salmonella Bareilly	na	IA
CTS_676	Salmonella	enterica	enterica	Bareilly	1	NA	na	CFX	Salmonella Bareilly	na	IA
CTS_676	Salmonella	enterica	enterica	Bareilly	1	XLD	Typical	CFX	Salmonella Bareilly	na	IA
CTS_676	Salmonella	enterica	enterica	Bareilly	1	NA	na	OPUS	Salmonella Bareilly	na	IA
CTS_676	Salmonella	enterica	enterica	Bareilly	1	XLD	Typical	OPUS	Salmonella Bareilly	na	IA
CTS_695	Salmonella	enterica	enterica	Bareilly	1	NA	na	CFX	Salmonella Bareilly	na	IA
CTS_695	Salmonella	enterica	enterica	Bareilly	1	XLD	Typical	CFX	Salmonella Bareilly	na	IA
CTS_695	Salmonella	enterica	enterica	Bareilly	1	NA	na	OPUS	Salmonella Bareilly	na	IA
CTS_695	Salmonella	enterica	enterica	Bareilly	1	XLD	Typical	OPUS	Salmonella Bareilly	na	IA
CTS_847	Salmonella	enterica	enterica	Berta	1	NA		CFX	Salmonella Berta	na	IA
CTS_847	Salmonella	enterica	enterica	Berta	1	XLD	Typical	CFX	Salmonella Berta	na	IA
CTS_847	Salmonella	enterica	enterica	Berta	1	NA		OPUS	Salmonella Berta	na	IA
CTS_847	Salmonella	enterica	enterica	Berta	1	XLD	Typical	OPUS	Salmonella Berta	na	IA
CTS_635	Salmonella	enterica	enterica	Berta	1	NA	na	CFX	Salmonella Berta	na	IA
CTS_635	Salmonella	enterica	enterica	Berta	1	XLD	Typical	CFX	Salmonella Berta	na	IA
CTS_635	Salmonella	enterica	enterica	Berta	1	NA	na	OPUS	Salmonella Berta	na	IA
CTS_635	Salmonella	enterica	enterica	Berta	1	XLD	Typical	OPUS	Salmonella Berta	na	IA
CTS_648	Salmonella	enterica	enterica	Berta	1	NA	na	CFX	Salmonella Berta	na	IA
CTS_648	Salmonella	enterica	enterica	Berta	1	XLD	Typical	CFX	Salmonella Berta	na	IA
CTS_648	Salmonella	enterica	enterica	Berta	1	NA	na	OPUS	Salmonella Berta	na	IA
CTS_648	Salmonella	enterica	enterica	Berta	1	XLD	Typical	OPUS	Salmonella Berta	na	IA
CTS_719	Salmonella	enterica	enterica	Berta	1	NA	na	CFX	Salmonella Berta	na	IA
CTS_719	Salmonella	enterica	enterica	Berta	1	XLD	Typical	CFX	Salmonella Berta	na	IA
CTS_719	Salmonella	enterica	enterica	Berta	1	NA	na	OPUS	Salmonella Berta	na	IA



CTS_719	Salmonella	enterica	enterica	Berta	1	XLD	Typical	OPUS	Salmonella Berta	na	IA
CTS_787	Salmonella	enterica	enterica	Berta	1	NA	na	CFX	Salmonella Berta	na	IA
CTS_787	Salmonella	enterica	enterica	Berta	1	XLD	Typical	CFX	Salmonella Berta	na	IA
CTS_787	Salmonella	enterica	enterica	Berta	1	NA	na	OPUS	Reaction not OK	na	- Repeat test
CTS_787	Salmonella	enterica	enterica	Berta	2	NA	na	OPUS	Salmonella Berta	na	IA
CTS_787	Salmonella	enterica	enterica	Berta	1	XLD	Typical	OPUS	Salmonella Berta	na	IA
CTS_848	Salmonella	enterica	enterica	Blockley	1	NA		CFX	Salmonella Blockley	na	IA
CTS_848	Salmonella	enterica	enterica	Blockley	1	XLD	Typical	CFX	Salmonella Blockley	na	IA
CTS_848	Salmonella	enterica	enterica	Blockley	1	NA		OPUS	Salmonella Blockley	na	IA
CTS_848	Salmonella	enterica	enterica	Blockley	1	XLD	Typical	OPUS	Salmonella Blockley	na	IA
CTS_849	Salmonella	enterica	enterica	Blockley	1	NA		CFX	Salmonella Blockley	na	IA
CTS_849	Salmonella	enterica	enterica	Blockley	1	XLD	Typical	CFX	Salmonella Blockley	na	IA
CTS_849	Salmonella	enterica	enterica	Blockley	1	NA		OPUS	Salmonella Blockley	na	IA
CTS_849	Salmonella	enterica	enterica	Blockley	1	XLD	Typical	OPUS	Salmonella Blockley	na	IA
CTS_622	Salmonella	enterica	enterica	Blockley	1	NA		CFX	Salmonella Blockley	na	IA
CTS_622	Salmonella	enterica	enterica	Blockley	1	XLD	Typical	CFX	Salmonella Blockley	na	IA
CTS_622	Salmonella	enterica	enterica	Blockley	1	NA		OPUS	Salmonella Blockley	na	IA
CTS_622	Salmonella	enterica	enterica	Blockley	1	XLD	Typical	OPUS	Salmonella Blockley	na	IA
CTS_737	Salmonella	enterica	enterica	Blockley	1	NA		CFX	Salmonella Blockley	na	IA
CTS_737	Salmonella	enterica	enterica	Blockley	1	XLD	Typical	CFX	Salmonella Blockley	na	IA
CTS_737	Salmonella	enterica	enterica	Blockley	1	NA		OPUS	Salmonella Blockley	na	IA
CTS_737	Salmonella	enterica	enterica	Blockley	1	XLD	Typical	OPUS	Salmonella Blockley	na	IA
CTS_762	Salmonella	enterica	enterica	Blockley	1	NA		CFX	Salmonella Blockley	na	IA
CTS_762	Salmonella	enterica	enterica	Blockley	1	XLD	Typical	CFX	Salmonella Blockley	na	IA
CTS_762	Salmonella	enterica	enterica	Blockley	1	NA		OPUS	Salmonella Blockley	na	IA
CTS_762	Salmonella	enterica	enterica	Blockley	1	XLD	Typical	OPUS	Salmonella Blockley	na	IA
CTS_850	Salmonella	enterica	enterica	Blockley	1	NA		CFX	Salmonella Blockley	na	IA
CTS_850	Salmonella	enterica	enterica	Blockley	1	XLD	Typical	CFX	Salmonella Blockley	na	IA
CTS_850	Salmonella	enterica	enterica	Blockley	1	NA		OPUS	Salmonella Blockley	na	IA
CTS_850	Salmonella	enterica	enterica	Blockley	1	XLD	Typical	OPUS	Salmonella Blockley	na	IA
CTS_851	Salmonella	enterica	enterica	Bovismorbificans	1	NA		CFX	Salmonella Bovismorbificans	na	IA
CTS_851	Salmonella	enterica	enterica	Bovismorbificans	1	XLD	Typical	CFX	Salmonella Bovismorbificans	na	IA
CTS_851	Salmonella	enterica	enterica	Bovismorbificans	1	NA		OPUS	Salmonella Bovismorbificans	na	IA

CTS_851	Salmonella	enterica	enterica	Bovismorbificans	1	XLD	Typical	OPUS	Salmonella positive, Genovar EGGET1	na	-	Repeat
CTS_851	Salmonella	enterica	enterica	Bovismorbificans	2	XLD	Typical	Opus	Salmonella Bovismorbificans	na	IA	
CTS_852	Salmonella	enterica	enterica	Bovismorbificans	1	NA		CFX	Salmonella Bovismorbificans	IA	IA	
CTS_852	Salmonella	enterica	enterica	Bovismorbificans	1	XLD	Typical	CFX	Salmonella Bovismorbificans	IA	IA	
CTS_852	Salmonella	enterica	enterica	Bovismorbificans	1	NA		OPUS	Salmonella Bovismorbificans	IA	IA	
CTS_852	Salmonella	enterica	enterica	Bovismorbificans	1	XLD	Typical	OPUS	Salmonella Bovismorbificans	IA	IA	
CTS_045	Salmonella	enterica	enterica	Bovismorbificans	1	NA	na	CFX	Salmonella Bovismorbificans	IA	IA	
CTS_045	Salmonella	enterica	enterica	Bovismorbificans	1	XLD	Typical	CFX	Salmonella Bovismorbificans	IA	IA	
CTS_045	Salmonella	enterica	enterica	Bovismorbificans	1	NA	na	OPUS	Salmonella Bovismorbificans	IA	IA	
CTS_045	Salmonella	enterica	enterica	Bovismorbificans	1	XLD	Typical	OPUS	Salmonella Bovismorbificans	IA	IA	
CTS_048	Salmonella	enterica	enterica	Bovismorbificans	1	NA	na	CFX	Salmonella positive, Genovar EHHET1	na	-	Repeat test
CTS_048	Salmonella	enterica	enterica	Bovismorbificans	2	NA	na	CFX	Salmonella positive, Genovar EHHET1	na	Inconclusive result	CTS_503 added
CTS_048	Salmonella	enterica	enterica	Bovismorbificans	1	XLD	Typical	CFX	Salmonella positive, Genovar EHHET1	na	-	Repeat test
CTS_048	Salmonella	enterica	enterica	Bovismorbificans	2	XLD	Typical	CFX	Salmonella positive, Genovar EHHET1	na	Inconclusive result	CTS_503 added
CTS_048	Salmonella	enterica	enterica	Bovismorbificans	1	NA	na	OPUS	Salmonella positive, Genovar EHHET1	na	-	Repeat test
CTS_048	Salmonella	enterica	enterica	Bovismorbificans	2	NA	na	OPUS	Salmonella positive, Genovar ESHET1	na	Inconclusive result	CTS_503 added
CTS_048	Salmonella	enterica	enterica	Bovismorbificans	1	XLD	Typical	OPUS	Salmonella positive, Genovar ESHET1	na	-	Repeat test
CTS_048	Salmonella	enterica	enterica	Bovismorbificans	2	XLD	Typical	OPUS	Salmonella positive, Genovar ESHET1	na	Inconclusive result	CTS_503 added



CTS_503	Salmonella	enterica	enterica	Bovismorbificans	1	NA	na	CFX	Salmonella Bovismorbificans	na	IA
CTS_503	Salmonella	enterica	enterica	Bovismorbificans	1	XLD	Typical	CFX	Salmonella Bovismorbificans	na	IA
CTS_503	Salmonella	enterica	enterica	Bovismorbificans	1	NA	na	OPUS	Salmonella Bovismorbificans	na	IA
CTS_503	Salmonella	enterica	enterica	Bovismorbificans	1	XLD	Typical	OPUS	Salmonella Bovismorbificans	na	IA
CTS_511	Salmonella	enterica	enterica	Bovismorbificans	1	NA	na	CFX	Salmonella Bovismorbificans	na	IA
CTS_511	Salmonella	enterica	enterica	Bovismorbificans	1	XLD	Typical	CFX	Salmonella Bovismorbificans	na	IA
CTS_511	Salmonella	enterica	enterica	Bovismorbificans	1	NA	na	OPUS	Salmonella Bovismorbificans	na	IA
CTS_511	Salmonella	enterica	enterica	Bovismorbificans	1	XLD	Typical	OPUS	Salmonella Bovismorbificans	na	IA
CTS_853	Salmonella	enterica	enterica	Bracknell	1	NA		CFX	Salmonella Bracknell	na	IA
CTS_853	Salmonella	enterica	enterica	Bracknell	1	XLD	Typical	CFX	Salmonella Bracknell	na	IA
CTS_853	Salmonella	enterica	enterica	Bracknell	1	NA		OPUS	Salmonella Bracknell	na	IA
CTS_853	Salmonella	enterica	enterica	Bracknell	1	XLD	Typical	OPUS	Salmonella Bracknell	na	IA
CTS_659	Salmonella	enterica	enterica	Bracknell	1	NA		CFX	Salmonella Bracknell	na	IA
CTS_659	Salmonella	enterica	enterica	Bracknell	1	XLD	Typical	CFX	Salmonella Bracknell	na	IA
CTS_659	Salmonella	enterica	enterica	Bracknell	1	NA		OPUS	Salmonella Bracknell	na	IA
CTS_659	Salmonella	enterica	enterica	Bracknell	1	XLD	Typical	OPUS	Salmonella Bracknell	na	IA
CTS_748	Salmonella	enterica	enterica	Bracknell	1	NA		CFX	Salmonella Bracknell	na	IA
CTS_748	Salmonella	enterica	enterica	Bracknell	1	XLD	Typical	CFX	Salmonella Bracknell	na	IA
CTS_748	Salmonella	enterica	enterica	Bracknell	1	NA		OPUS	Salmonella Bracknell	na	IA
CTS_748	Salmonella	enterica	enterica	Bracknell	1	XLD	Typical	OPUS	Salmonella Bracknell	na	IA
CTS_769	Salmonella	enterica	enterica	Bracknell	1	NA		CFX	Salmonella Bracknell	na	IA
CTS_769	Salmonella	enterica	enterica	Bracknell	1	XLD	Typical	CFX	Salmonella Bracknell	na	IA
CTS_769	Salmonella	enterica	enterica	Bracknell	1	NA		OPUS	Salmonella Bracknell	na	IA
CTS_769	Salmonella	enterica	enterica	Bracknell	1	XLD	Typical	OPUS	Salmonella Bracknell	na	IA
CTS_802	Salmonella	enterica	enterica	Bracknell	1	NA		CFX	Salmonella Bracknell	na	IA
CTS_802	Salmonella	enterica	enterica	Bracknell	1	XLD	Typical	CFX	Salmonella Bracknell	na	IA
CTS_802	Salmonella	enterica	enterica	Bracknell	1	NA		OPUS	Salmonella Bracknell	na	IA
CTS_802	Salmonella	enterica	enterica	Bracknell	1	XLD	Typical	OPUS	Salmonella Bracknell	na	IA

CTS_049	Salmonella	enterica	enterica	Braenderup	1	NA	na	CFX	Salmonella Braenderup	IA	IA
CTS_049	Salmonella	enterica	enterica	Braenderup	1	XLD	Typical	CFX	Salmonella Braenderup	IA	IA
CTS_049	Salmonella	enterica	enterica	Braenderup	1	NA	na	OPUS	Salmonella Braenderup	IA	IA
CTS_049	Salmonella	enterica	enterica	Braenderup	1	XLD	Typical	OPUS	Salmonella Braenderup	IA	IA
CTS_051	Salmonella	enterica	enterica	Braenderup	1	NA	na	CFX	Salmonella Braenderup	na	IA
CTS_051	Salmonella	enterica	enterica	Braenderup	1	XLD	Typical	CFX	Salmonella Braenderup	na	IA
CTS_051	Salmonella	enterica	enterica	Braenderup	1	NA	na	OPUS	Salmonella Braenderup	na	IA
CTS_051	Salmonella	enterica	enterica	Braenderup	1	XLD	Typical	OPUS	Salmonella Braenderup	na	IA
CTS_052	Salmonella	enterica	enterica	Braenderup	1	NA	na	CFX	Salmonella Braenderup	na	IA
CTS_052	Salmonella	enterica	enterica	Braenderup	1	XLD	Typical	CFX	Salmonella Braenderup	na	IA
CTS_052	Salmonella	enterica	enterica	Braenderup	1	NA	na	OPUS	Salmonella Braenderup	na	IA
CTS_052	Salmonella	enterica	enterica	Braenderup	1	XLD	Typical	OPUS	Salmonella Braenderup	na	IA
CTS_053	Salmonella	enterica	enterica	Braenderup	1	NA	na	CFX	Salmonella Braenderup	na	IA
CTS_053	Salmonella	enterica	enterica	Braenderup	1	XLD	Typical	CFX	Salmonella Braenderup	na	IA
CTS_053	Salmonella	enterica	enterica	Braenderup	1	NA	na	OPUS	Salmonella Braenderup	na	IA
CTS_053	Salmonella	enterica	enterica	Braenderup	1	XLD	Typical	OPUS	Salmonella Braenderup	na	IA
CTS_504	Salmonella	enterica	enterica	Braenderup	1	NA	na	CFX	Salmonella Braenderup	IA	IA
CTS_504	Salmonella	enterica	enterica	Braenderup	1	XLD	Typical	CFX	Salmonella Braenderup	IA	IA



CTS_504	Salmonella	enterica	enterica	Braenderup	1	NA	na	OPUS	Salmonella Braenderup	IA	IA
CTS_504	Salmonella	enterica	enterica	Braenderup	1	XLD	Typical	OPUS	Salmonella Braenderup	IA	IA
CTS_854	Salmonella	enterica	enterica	Brandenburg	1	NA		CFX	Salmonella Brandenburg	IA	IA
CTS_854	Salmonella	enterica	enterica	Brandenburg	1	XLD	Typical	CFX	Salmonella Brandenburg	IA	IA
CTS_854	Salmonella	enterica	enterica	Brandenburg	1	NA		OPUS	Salmonella Brandenburg	IA	IA
CTS_854	Salmonella	enterica	enterica	Brandenburg	1	XLD	Typical	OPUS	Salmonella Brandenburg	IA	IA
CTS_855	Salmonella	enterica	enterica	Brandenburg	1	NA		CFX	Salmonella Brandenburg	na	IA
CTS_855	Salmonella	enterica	enterica	Brandenburg	1	XLD	Typical	CFX	Salmonella Brandenburg	na	IA
CTS_855	Salmonella	enterica	enterica	Brandenburg	1	NA		OPUS	Salmonella Brandenburg	na	IA
CTS_855	Salmonella	enterica	enterica	Brandenburg	1	XLD	Typical	OPUS	Salmonella Brandenburg	na	IA
CTS_054	Salmonella	enterica	enterica	Brandenburg	1	NA	na	CFX	Salmonella Brandenburg	IA	IA
CTS_054	Salmonella	enterica	enterica	Brandenburg	1	XLD	Typical	CFX	Salmonella Brandenburg	IA	IA
CTS_054	Salmonella	enterica	enterica	Brandenburg	1	NA	na	OPUS	Salmonella Brandenburg	IA	IA
CTS_054	Salmonella	enterica	enterica	Brandenburg	1	XLD	Typical	OPUS	Salmonella Brandenburg	IA	IA
CTS_055	Salmonella	enterica	enterica	Brandenburg	1	NA	na	CFX	Salmonella Reading or Brandenburg or Salmonella Chester	IA	IA A or B or C
CTS_055	Salmonella	enterica	enterica	Brandenburg	1	XLD	Typical	CFX	Salmonella Reading or Brandenburg	IA	IA A or B
CTS_055	Salmonella	enterica	enterica	Brandenburg	1	NA	na	OPUS	Salmonella Reading or Brandenburg or Salmonella Chester	IA	IA A or B or C



CTS_055	Salmonella	enterica	enterica	Brandenburg	1	XLD	Typical	OPUS	Salmonella Reading or Brandenburg or Salmonella Chester	IA	IA	A or B or C
CTS_058	Salmonella	enterica	enterica	Brandenburg	1	NA	na	CFX	Salmonella Reading or Brandenburg	na	IA	A or B
CTS_058	Salmonella	enterica	enterica	Brandenburg	1	XLD	Typical	CFX	Salmonella Reading or Brandenburg	na	IA	A or B
CTS_058	Salmonella	enterica	enterica	Brandenburg	1	NA	na	OPUS	Salmonella Reading or Brandenburg or Salmonella Chester	na	IA	A or B or C
CTS_058	Salmonella	enterica	enterica	Brandenburg	1	XLD	Typical	OPUS	Salmonella Reading or Brandenburg or Salmonella Chester	na	IA	A or B or C
CTS_856	Salmonella	enterica	enterica	Bredeney	1	NA		CFX	Salmonella Bredeney	na	IA	
CTS_856	Salmonella	enterica	enterica	Bredeney	1	XLD	Typical	CFX	Salmonella Bredeney	na	IA	
CTS_856	Salmonella	enterica	enterica	Bredeney	1	NA		OPUS	Salmonella Bredeney	na	IA	
CTS_856	Salmonella	enterica	enterica	Bredeney	1	XLD	Typical	OPUS	Salmonella Bredeney	na	IA	
CTS_857	Salmonella	enterica	enterica	Bredeney	1	NA		CFX	Salmonella Bredeney	na	IA	
CTS_857	Salmonella	enterica	enterica	Bredeney	1	XLD	Typical	CFX	Salmonella Bredeney	na	IA	
CTS_857	Salmonella	enterica	enterica	Bredeney	1	NA		OPUS	Salmonella Bredeney	na	IA	
CTS_857	Salmonella	enterica	enterica	Bredeney	1	XLD	Typical	OPUS	Salmonella Bredeney	na	IA	
CTS_858	Salmonella	enterica	enterica	Bredeney	1	NA		CFX	Salmonella Bredeney	na	IA	
CTS_858	Salmonella	enterica	enterica	Bredeney	1	XLD	Typical	CFX	Salmonella Bredeney	na	IA	
CTS_858	Salmonella	enterica	enterica	Bredeney	1	NA		OPUS	Salmonella Bredeney	na	IA	
CTS_858	Salmonella	enterica	enterica	Bredeney	1	XLD	Typical	OPUS	Salmonella Bredeney	na	IA	
CTS_060	Salmonella	enterica	enterica	Bredeney	1	NA	na	CFX	Salmonella positive, Genovar ESYVJ1	IA	-	Repeat test
CTS_060	Salmonella	enterica	enterica	Bredeney	2	NA	na	CFX	Salmonella Bredeney	IA	IA	
CTS_060	Salmonella	enterica	enterica	Bredeney	1	XLD	Typical	CFX	Salmonella Bredeney	IA	IA	
CTS_060	Salmonella	enterica	enterica	Bredeney	1	NA	na	OPUS	Salmonella Bredeney	IA	IA	
CTS_060	Salmonella	enterica	enterica	Bredeney	1	XLD	Typical	OPUS	Salmonella Bredeney	IA	IA	
CTS_063	Salmonella	enterica	enterica	Bredeney	1	NA	na	CFX	Salmonella Bredeney	na	IA	
CTS_063	Salmonella	enterica	enterica	Bredeney	1	XLD	Typical	CFX	Salmonella positive, Genovar ERWTP1	na	-	Repeat test
CTS_063	Salmonella	enterica	enterica	Bredeney	2	XLD	Typical	CFX	Salmonella Bredeney	na	IA	
CTS_063	Salmonella	enterica	enterica	Bredeney	1	NA	na	OPUS	Salmonella Bredeney	na	IA	
CTS_063	Salmonella	enterica	enterica	Bredeney	1	XLD	Typical	OPUS	Salmonella Bredeney	na	IA	

CTS_065	Salmonella	enterica	enterica	Cerro	1	NA	na	CFX	Salmonella Cerro	IA	IA
CTS_065	Salmonella	enterica	enterica	Cerro	1	XLD	Typical	CFX	Salmonella Cerro	IA	IA
CTS_065	Salmonella	enterica	enterica	Cerro	1	NA	na	OPUS	Salmonella Cerro	IA	IA
CTS_065	Salmonella	enterica	enterica	Cerro	1	XLD	Typical	OPUS	Salmonella Cerro	IA	IA
CTS_066	Salmonella	enterica	enterica	Cerro	1	NA	na	CFX	Salmonella Cerro	na	IA
CTS_066	Salmonella	enterica	enterica	Cerro	1	XLD	Typical	CFX	Salmonella Cerro	na	IA
CTS_066	Salmonella	enterica	enterica	Cerro	1	NA	na	OPUS	Salmonella Cerro	na	IA
CTS_066	Salmonella	enterica	enterica	Cerro	1	XLD	Typical	OPUS	Salmonella Cerro	na	IA
CTS_068	Salmonella	enterica	enterica	Cerro	1	NA	na	CFX	Salmonella Cerro	na	IA
CTS_068	Salmonella	enterica	enterica	Cerro	1	XLD	Typical	CFX	Salmonella Cerro	na	IA
CTS_068	Salmonella	enterica	enterica	Cerro	1	NA	na	OPUS	Salmonella Cerro	na	IA
CTS_068	Salmonella	enterica	enterica	Cerro	1	XLD	Typical	OPUS	Salmonella Cerro	na	IA
CTS_859	Salmonella	enterica	enterica	Cerro	1	NA		CFX	Salmonella Cerro	na	IA
CTS_859	Salmonella	enterica	enterica	Cerro	1	XLD	Typical	CFX	Salmonella Cerro	na	IA
CTS_859	Salmonella	enterica	enterica	Cerro	1	NA		OPUS	Salmonella Cerro	na	IA
CTS_859	Salmonella	enterica	enterica	Cerro	1	XLD	Typical	OPUS	Salmonella Cerro	na	IA
CTS_860	Salmonella	enterica	enterica	Cerro	1	NA		CFX	Salmonella positive, Genovar 4SR2Y1	na	inconclusive result CTS_862 added
CTS_860	Salmonella	enterica	enterica	Cerro	1	XLD	Typical	CFX	Salmonella positive, Genovar 4XR2Y1	na	inconclusive result CTS_862 added
CTS_860	Salmonella	enterica	enterica	Cerro	1	NA		OPUS	Salmonella positive, Genovar 4SR2Y1	na	inconclusive result CTS_862 added
CTS_860	Salmonella	enterica	enterica	Cerro	1	XLD	Typical	OPUS	Salmonella positive, Genovar 4XTJY1	na	inconclusive result CTS_862 added
CTS_861	Salmonella	enterica	enterica	Cerro	1	NA		CFX	Salmonella Cerro	na	IA
CTS_861	Salmonella	enterica	enterica	Cerro	1	XLD	Typical	CFX	Salmonella Cerro	na	IA
CTS_861	Salmonella	enterica	enterica	Cerro	1	NA		OPUS	Salmonella Cerro	na	IA
CTS_861	Salmonella	enterica	enterica	Cerro	1	XLD	Typical	OPUS	Salmonella positive, Genovar 4GSEY1	na	- Repeat
CTS_861	Salmonella	enterica	enterica	Cerro	2	XLD	Typical	OPUS	Salmonella Cerro	na	IA
CTS_862	Salmonella	enterica	enterica	Cerro	1	NA		CFX	Salmonella Cerro	IA	IA
CTS_862	Salmonella	enterica	enterica	Cerro	1	XLD	Typical	CFX	Salmonella Cerro	IA	IA
CTS_862	Salmonella	enterica	enterica	Cerro	1	NA		OPUS	Salmonella Cerro	IA	IA
CTS_862	Salmonella	enterica	enterica	Cerro	1	XLD	Typical	OPUS	Salmonella Cerro	IA	IA
CTS_863	Salmonella	enterica	enterica	Chailey	1	NA		CFX	Salmonella Chailey or Kottbus	na	IA A or B

CTS_863	Salmonella	enterica	enterica	Chailey	1	XLD	Typical	CFX	Salmonella Chailey or Kottbus	na	IA	A or B
CTS_863	Salmonella	enterica	enterica	Chailey	1	NA		OPUS	Salmonella Chailey or Kottbus	na	IA	A or B
CTS_863	Salmonella	enterica	enterica	Chailey	1	XLD	Typical	OPUS	Salmonella Chailey or Kottbus	na	IA	A or B
CTS_651	Salmonella	enterica	enterica	Chailey	1	NA		CFX	Salmonella Chailey or Kottbus	na	IA	A or B
CTS_651	Salmonella	enterica	enterica	Chailey	1	XLD	Typical	CFX	Salmonella Chailey or Kottbus	na	IA	A or B
CTS_651	Salmonella	enterica	enterica	Chailey	1	NA		OPUS	Salmonella Chailey or Kottbus	na	IA	A or B
CTS_651	Salmonella	enterica	enterica	Chailey	1	XLD	Typical	OPUS	Salmonella Chailey or Kottbus	na	IA	A or B
CTS_654	Salmonella	enterica	enterica	Chailey	1	NA		CFX	Salmonella Chailey or Kottbus	na	IA	A or B
CTS_654	Salmonella	enterica	enterica	Chailey	1	XLD	Typical	CFX	Salmonella Chailey or Kottbus	na	IA	A or B
CTS_654	Salmonella	enterica	enterica	Chailey	1	NA		OPUS	Salmonella Chailey or Kottbus	na	IA	A or B
CTS_654	Salmonella	enterica	enterica	Chailey	1	XLD	Typical	OPUS	Salmonella Chailey or Kottbus	na	IA	A or B
CTS_724	Salmonella	enterica	enterica	Chailey	1	NA		CFX	Salmonella Chailey or Kottbus	na	IA	A or B
CTS_724	Salmonella	enterica	enterica	Chailey	1	XLD	Typical	CFX	Salmonella Chailey or Kottbus	na	IA	A or B
CTS_724	Salmonella	enterica	enterica	Chailey	1	NA		OPUS	Salmonella Chailey or Kottbus	na	IA	A or B
CTS_724	Salmonella	enterica	enterica	Chailey	1	XLD	Typical	OPUS	Salmonella Chailey or Kottbus	na	IA	A or B
CTS_759	Salmonella	enterica	enterica	Chailey	1	NA		CFX	Salmonella Chailey or Kottbus	na	IA	A or B
CTS_759	Salmonella	enterica	enterica	Chailey	1	XLD	Typical	CFX	Salmonella Chailey or Kottbus	na	IA	A or B
CTS_759	Salmonella	enterica	enterica	Chailey	1	NA		OPUS	Salmonella Chailey or Kottbus	na	IA	A or B

CTS_759	Salmonella	enterica	enterica	Chailey	1	XLD	Typical	OPUS	Salmonella Chailey or Kottbus	na	IA	A or B
CTS_864	Salmonella	enterica	enterica	Chester	1	NA		CFX	Salmonella Chester	na	IA	
CTS_864	Salmonella	enterica	enterica	Chester	1	XLD	Typical	CFX	Salmonella Chester	na	IA	
CTS_864	Salmonella	enterica	enterica	Chester	1	NA		OPUS	Salmonella Chester	na	IA	
CTS_864	Salmonella	enterica	enterica	Chester	1	XLD	Typical	OPUS	Salmonella Chester	na	IA	
CTS_865	Salmonella	enterica	enterica	Chester	1	NA		CFX	Salmonella Chester	na	IA	
CTS_865	Salmonella	enterica	enterica	Chester	1	XLD	Typical	CFX	Salmonella Chester	na	IA	
CTS_865	Salmonella	enterica	enterica	Chester	1	NA		OPUS	Salmonella Chester	na	IA	
CTS_865	Salmonella	enterica	enterica	Chester	1	XLD	Typical	OPUS	Salmonella Chester	na	IA	
CTS_572	Salmonella	enterica	enterica	Chester	1	NA		CFX	Salmonella positive, Genovar EXVTP1	na	-	Repeat test
CTS_572	Salmonella	enterica	enterica	Chester	2	NA		CFX	Salmonella Chester	na	IA	
CTS_572	Salmonella	enterica	enterica	Chester	1	XLD	Typical	CFX	Salmonella positive, Genovar EXVTP1	na	-	Repeat test
CTS_572	Salmonella	enterica	enterica	Chester	2	XLD	Typical	CFX	Salmonella Chester	na	IA	
CTS_572	Salmonella	enterica	enterica	Chester	1	NA		OPUS	Salmonella Chester	na	IA	
CTS_572	Salmonella	enterica	enterica	Chester	1	XLD	Typical	OPUS	Salmonella Chester	na	IA	
CTS_691	Salmonella	enterica	enterica	Chester	1	NA		CFX	Salmonella Chester	na	IA	
CTS_691	Salmonella	enterica	enterica	Chester	1	XLD	Typical	CFX	Salmonella Chester	na	IA	
CTS_691	Salmonella	enterica	enterica	Chester	1	NA		OPUS	Salmonella Chester	na	IA	
CTS_691	Salmonella	enterica	enterica	Chester	1	XLD	Typical	OPUS	Salmonella Chester	na	IA	
CTS_741	Salmonella	enterica	enterica	Chester	1	NA		CFX	Salmonella positive, Genovar CHRJP1	na	-	Repeat test
CTS_741	Salmonella	enterica	enterica	Chester	2	NA		CFX	Salmonella Chester	na	IA	
CTS_741	Salmonella	enterica	enterica	Chester	1	XLD	Typical	CFX	Salmonella Chester	na	IA	
CTS_741	Salmonella	enterica	enterica	Chester	1	NA		OPUS	Salmonella Chester	na	IA	
CTS_741	Salmonella	enterica	enterica	Chester	1	XLD	Typical	OPUS	Salmonella Chester	na	IA	
CTS_866	Salmonella	enterica	enterica	Chester	1	NA		CFX	Salmonella Chester	na	IA	
CTS_866	Salmonella	enterica	enterica	Chester	1	XLD	Typical	CFX	Salmonella Chester	na	IA	
CTS_866	Salmonella	enterica	enterica	Chester	1	NA		OPUS	Reaction not OK	na	-	Repeat test
CTS_866	Salmonella	enterica	enterica	Chester	2	NA		OPUS	Salmonella Chester	na	IA	
CTS_866	Salmonella	enterica	enterica	Chester	1	XLD	Typical	OPUS	Salmonella Chester	na	IA	
CTS_072	Salmonella	enterica	enterica	Choleraesuis	1	NA	na	CFX	Salmonella positive, Genovar CTJPT1	na	-	Repeat test
CTS_072	Salmonella	enterica	enterica	Choleraesuis	2	NA	na	CFX	Salmonella Choleraesuis	na	IA	

CTS_072	Salmonella	enterica	enterica	Choleraesuis	1	XLD	Typical	CFX	Salmonella Choleraesuis	na	IA
CTS_072	Salmonella	enterica	enterica	Choleraesuis	1	NA	na	OPUS	Salmonella Choleraesuis	na	IA
CTS_072	Salmonella	enterica	enterica	Choleraesuis	1	XLD	Typical	OPUS	Salmonella Choleraesuis	na	IA
CTS_073	Salmonella	enterica	enterica	Choleraesuis	1	NA	na	CFX	Salmonella Choleraesuis	na	IA
CTS_073	Salmonella	enterica	enterica	Choleraesuis	1	XLD	Typical	CFX	Salmonella Choleraesuis	na	IA
CTS_073	Salmonella	enterica	enterica	Choleraesuis	1	NA	na	OPUS	Salmonella Choleraesuis	na	IA
CTS_073	Salmonella	enterica	enterica	Choleraesuis	1	XLD	Typical	OPUS	Salmonella Choleraesuis	na	IA
CTS_500	Salmonella	enterica	enterica	Choleraesuis	1	NA	na	CFX	Salmonella Choleraesuis	na	IA
CTS_500	Salmonella	enterica	enterica	Choleraesuis	1	XLD	Typical	CFX	Salmonella Choleraesuis	na	IA
CTS_500	Salmonella	enterica	enterica	Choleraesuis	1	NA	na	OPUS	Salmonella Choleraesuis	na	IA
CTS_500	Salmonella	enterica	enterica	Choleraesuis	1	XLD	Typical	OPUS	Salmonella Choleraesuis	na	IA
CTS_867	Salmonella	enterica	enterica	Choleraesuis	1	NA		CFX	Salmonella Choleraesuis	IA	IA
CTS_867	Salmonella	enterica	enterica	Choleraesuis	1	XLD	Typical	CFX	Salmonella Choleraesuis	IA	IA
CTS_867	Salmonella	enterica	enterica	Choleraesuis	1	NA		OPUS	Salmonella Choleraesuis	IA	IA
CTS_867	Salmonella	enterica	enterica	Choleraesuis	1	XLD	Typical	OPUS	Salmonella Choleraesuis	IA	IA
CTS_868	Salmonella	enterica	enterica	Choleraesuis	1	NA		CFX	Salmonella Choleraesuis	IA	IA
CTS_868	Salmonella	enterica	enterica	Choleraesuis	1	XLD	Typical	CFX	Salmonella Choleraesuis	IA	IA
CTS_868	Salmonella	enterica	enterica	Choleraesuis	1	NA		OPUS	Salmonella Choleraesuis	IA	IA

CTS_868	Salmonella	enterica	enterica	Choleraesuis	1	XLD	Typical	Opus	Salmonella Choleraesuis	IA	IA
CTS_075	Salmonella	enterica	enterica	Corvallis	1	NA	na	CFX	Salmonella Corvallis	IA	IA
CTS_075	Salmonella	enterica	enterica	Corvallis	1	XLD	Typical	CFX	Salmonella Corvallis	IA	IA
CTS_075	Salmonella	enterica	enterica	Corvallis	1	NA	na	OPUS	Salmonella Corvallis	IA	IA
CTS_075	Salmonella	enterica	enterica	Corvallis	1	XLD	Typical	OPUS	Salmonella Corvallis	IA	IA
CTS_076	Salmonella	enterica	enterica	Corvallis	1	NA	na	CFX	Salmonella Corvallis	na	IA
CTS_076	Salmonella	enterica	enterica	Corvallis	1	XLD	Typical	CFX	No DNA detected	na	- Repeat test
CTS_076	Salmonella	enterica	enterica	Corvallis	2	XLD	Typical	CFX	Salmonella Corvallis	na	IA
CTS_076	Salmonella	enterica	enterica	Corvallis	1	NA	na	OPUS	Salmonella Corvallis	na	IA
CTS_076	Salmonella	enterica	enterica	Corvallis	1	XLD	Typical	OPUS	Salmonella Corvallis	na	IA
CTS_077	Salmonella	enterica	enterica	Corvallis	1	NA	na	CFX	Salmonella Corvallis	na	IA
CTS_077	Salmonella	enterica	enterica	Corvallis	1	XLD	Typical	CFX	Salmonella Corvallis	na	IA
CTS_077	Salmonella	enterica	enterica	Corvallis	1	NA	na	OPUS	Salmonella Corvallis	na	IA
CTS_077	Salmonella	enterica	enterica	Corvallis	1	XLD	Typical	OPUS	Salmonella Corvallis	na	IA
CTS_078	Salmonella	enterica	enterica	Corvallis	1	NA	na	CFX	Salmonella Corvallis	IA	IA
CTS_078	Salmonella	enterica	enterica	Corvallis	1	XLD	Typical	CFX	Salmonella Corvallis	IA	IA
CTS_078	Salmonella	enterica	enterica	Corvallis	1	NA	na	OPUS	Salmonella Corvallis	IA	IA
CTS_078	Salmonella	enterica	enterica	Corvallis	1	XLD	Typical	OPUS	Salmonella Corvallis	IA	IA
CTS_869	Salmonella	enterica	enterica	Corvallis	1	NA	na	CFX	Salmonella Corvallis	na	IA
CTS_869	Salmonella	enterica	enterica	Corvallis	1	XLD	Typical	CFX	Salmonella Corvallis	na	IA
CTS_869	Salmonella	enterica	enterica	Corvallis	1	NA	na	OPUS	Salmonella Corvallis	na	IA
CTS_869	Salmonella	enterica	enterica	Corvallis	1	XLD	Typical	OPUS	Salmonella Corvallis	na	IA
CTS_869	Salmonella	enterica	enterica	Corvallis	1	NA	na	CFX	Salmonella Corvallis	na	IA
CTS_869	Salmonella	enterica	enterica	Corvallis	1	XLD	Typical	CFX	Salmonella Corvallis	na	IA
CTS_869	Salmonella	enterica	enterica	Corvallis	1	NA	na	OPUS	Salmonella Corvallis	na	IA
CTS_869	Salmonella	enterica	enterica	Corvallis	1	XLD	Typical	OPUS	Salmonella Corvallis	na	IA
CTS_870	Salmonella	enterica	enterica	Cubana	1	NA	na	CFX	Salmonella Cubana or Llandoff	IA	IA A or B
CTS_870	Salmonella	enterica	enterica	Cubana	1	XLD	Typical	CFX	Salmonella Cubana or Llandoff	IA	IA A or B
CTS_870	Salmonella	enterica	enterica	Cubana	1	NA	na	OPUS	Salmonella Cubana or Llandoff	IA	IA A or B
CTS_870	Salmonella	enterica	enterica	Cubana	1	XLD	Typical	OPUS	Salmonella Cubana or Llandoff	IA	IA A or B
CTS_871	Salmonella	enterica	enterica	Cubana	1	NA	na	CFX	Salmonella Cubana or Llandoff	na	IA A or B



CTS_871	Salmonella	enterica	enterica	Cubana	1	XLD	Typical	CFX	Salmonella Cubana or Llandoff	na	IA	A or B
CTS_871	Salmonella	enterica	enterica	Cubana	1	NA	na	OPUS	Salmonella Cubana or Llandoff	na	IA	A or B
CTS_871	Salmonella	enterica	enterica	Cubana	1	XLD	Typical	OPUS	Salmonella Cubana or Llandoff	na	IA	A or B
CTS_872	Salmonella	enterica	enterica	Cubana	1	NA	na	CFX	Salmonella Cubana or Llandoff	na	IA	A or B
CTS_872	Salmonella	enterica	enterica	Cubana	1	XLD	Typical	CFX	Salmonella Cubana or Llandoff	na	IA	A or B
CTS_872	Salmonella	enterica	enterica	Cubana	1	NA	na	OPUS	Salmonella Cubana or Llandoff	na	IA	A or B
CTS_872	Salmonella	enterica	enterica	Cubana	1	XLD	Typical	OPUS	Salmonella Cubana or Llandoff	na	IA	A or B
CTS_079	Salmonella	enterica	enterica	Cubana	1	NA	na	CFX	Salmonella Cubana	IA	IA	
CTS_079	Salmonella	enterica	enterica	Cubana	1	XLD	Typical	CFX	Salmonella Cubana	IA	IA	
CTS_079	Salmonella	enterica	enterica	Cubana	1	NA	na	OPUS	Salmonella Cubana	IA	IA	
CTS_079	Salmonella	enterica	enterica	Cubana	1	XLD	Typical	OPUS	Salmonella Cubana	IA	IA	
CTS_083	Salmonella	enterica	enterica	Cubana	1	NA	na	CFX	Salmonella Cubana	na	IA	
CTS_083	Salmonella	enterica	enterica	Cubana	1	XLD	Typical	CFX	Salmonella Cubana	na	IA	
CTS_083	Salmonella	enterica	enterica	Cubana	1	NA	na	OPUS	Salmonella Cubana	na	IA	
CTS_083	Salmonella	enterica	enterica	Cubana	1	XLD	Typical	OPUS	Salmonella Cubana	na	IA	
CTS_873	Salmonella	enterica	enterica	Derby	1	NA	na	CFX	Salmonella Derby	na	IA	
CTS_873	Salmonella	enterica	enterica	Derby	1	XLD	Typical	CFX	Salmonella Derby	na	IA	
CTS_873	Salmonella	enterica	enterica	Derby	1	NA	na	OPUS	Salmonella Derby	na	IA	
CTS_873	Salmonella	enterica	enterica	Derby	1	XLD	Typical	OPUS	Salmonella Derby	na	IA	
CTS_874	Salmonella	enterica	enterica	Derby	1	NA	na	CFX	Salmonella Derby	na	IA	
CTS_874	Salmonella	enterica	enterica	Derby	1	XLD	Typical	CFX	Salmonella Derby	na	IA	
CTS_874	Salmonella	enterica	enterica	Derby	1	NA	na	OPUS	Salmonella Derby	na	IA	
CTS_874	Salmonella	enterica	enterica	Derby	1	XLD	Typical	OPUS	Salmonella Derby	na	IA	
CTS_875	Salmonella	enterica	enterica	Derby	1	NA	na	CFX	Salmonella Derby	IA	IA	
CTS_875	Salmonella	enterica	enterica	Derby	1	XLD	Typical	CFX	Salmonella Derby	IA	IA	
CTS_875	Salmonella	enterica	enterica	Derby	1	NA	na	OPUS	Salmonella Derby	IA	IA	
CTS_875	Salmonella	enterica	enterica	Derby	1	XLD	Typical	OPUS	Salmonella Derby	IA	IA	
CTS_876	Salmonella	enterica	enterica	Derby	1	NA	na	CFX	Salmonella Derby	IA	IA	
CTS_876	Salmonella	enterica	enterica	Derby	1	XLD	Typical	CFX	Salmonella Derby	IA	IA	
CTS_876	Salmonella	enterica	enterica	Derby	1	NA	na	OPUS	Salmonella Derby	IA	IA	

CTS_876	Salmonella	enterica	enterica	Derby	1	XLD	Typical	OPUS	Salmonella Derby	IA	IA
CTS_088	Salmonella	enterica	enterica	Derby	1	NA	na	CFX	Salmonella Derby	na	IA
CTS_088	Salmonella	enterica	enterica	Derby	1	XLD	Typical	CFX	Salmonella Derby	na	IA
CTS_088	Salmonella	enterica	enterica	Derby	1	NA	na	OPUS	Salmonella Derby	na	IA
CTS_088	Salmonella	enterica	enterica	Derby	1	XLD	Typical	OPUS	Salmonella Derby	na	IA
CTS_877	Salmonella	enterica	enterica	Dublin	1	NA	na	CFX	Salmonella Dublin	na	IA
CTS_877	Salmonella	enterica	enterica	Dublin	1	XLD	Typical	CFX	Salmonella positive, Genovar 4TPKY1	na	- Repeat
CTS_877	Salmonella	enterica	enterica	Dublin	2	XLD	Typical	CFX	Salmonella positive, Genovar 4TWJY1	na	inconclusive result CTS_880 added
CTS_877	Salmonella	enterica	enterica	Dublin	1	NA	na	OPUS	Salmonella positive, Genovar 4TPKY1	na	- Repeat
CTS_877	Salmonella	enterica	enterica	Dublin	2	NA	na	OPUS	Salmonella Dublin	na	IA
CTS_877	Salmonella	enterica	enterica	Dublin	1	XLD	Typical	OPUS	Salmonella Dublin	na	IA
CTS_878	Salmonella	enterica	enterica	Dublin	1	NA	na	CFX	Salmonella Dublin	na	IA
CTS_878	Salmonella	enterica	enterica	Dublin	1	XLD	Typical	CFX	Salmonella Dublin	na	IA
CTS_878	Salmonella	enterica	enterica	Dublin	1	NA	na	OPUS	Salmonella Dublin	na	IA
CTS_878	Salmonella	enterica	enterica	Dublin	1	XLD	Typical	OPUS	Salmonella Dublin	na	IA
CTS_879	Salmonella	enterica	enterica	Dublin	1	NA	na	CFX	Salmonella Dublin	na	IA
CTS_879	Salmonella	enterica	enterica	Dublin	1	XLD	Typical	CFX	Salmonella Dublin	na	IA
CTS_879	Salmonella	enterica	enterica	Dublin	1	NA	na	OPUS	Salmonella Dublin	na	IA
CTS_879	Salmonella	enterica	enterica	Dublin	1	XLD	Typical	OPUS	Salmonella Dublin	na	IA
CTS_089	Salmonella	enterica	enterica	Dublin	1	NA	na	CFX	Salmonella Dublin	IA	IA
CTS_089	Salmonella	enterica	enterica	Dublin	1	XLD	Typical	CFX	Salmonella Dublin	IA	IA
CTS_089	Salmonella	enterica	enterica	Dublin	1	NA	na	OPUS	Salmonella Dublin	IA	IA
CTS_089	Salmonella	enterica	enterica	Dublin	1	XLD	Typical	OPUS	Salmonella Dublin	IA	IA
CTS_090	Salmonella	enterica	enterica	Dublin	1	NA	na	CFX	Salmonella Dublin	IA	IA
CTS_090	Salmonella	enterica	enterica	Dublin	1	XLD	Typical	CFX	Salmonella Dublin	IA	IA
CTS_090	Salmonella	enterica	enterica	Dublin	1	NA	na	OPUS	Salmonella Dublin	IA	IA
CTS_090	Salmonella	enterica	enterica	Dublin	1	XLD	Typical	OPUS	Salmonella Dublin	IA	IA
CTS_093	Salmonella	enterica	enterica	Dublin	1	NA	na	CFX	Salmonella Dublin	na	IA
CTS_093	Salmonella	enterica	enterica	Dublin	1	XLD	Typical	CFX	Salmonella Dublin	na	IA
CTS_093	Salmonella	enterica	enterica	Dublin	1	NA	na	OPUS	Salmonella Dublin	na	IA
CTS_093	Salmonella	enterica	enterica	Dublin	1	XLD	Typical	OPUS	Salmonella Dublin	na	IA
CTS_880	Salmonella	enterica	enterica	Dublin	1	NA	na	CFX	Salmonella positive, Genovar 4YYKY1	na	- Repeat
CTS_880	Salmonella	enterica	enterica	Dublin	2	NA	na		Salmonella Dublin	na	IA



CTS_880	Salmonella	enterica	enterica	Dublin	1	XLD	Typical	CFX	Salmonella Dublin	na	IA	
CTS_880	Salmonella	enterica	enterica	Dublin	1	NA	na	OPUS	Salmonella Dublin	na	IA	
CTS_880	Salmonella	enterica	enterica	Dublin	1	XLD	Typical	OPUS	Salmonella positive, Genovar 4YYKY1	na	-	Repeat
CTS_880	Salmonella	enterica	enterica	Dublin	2	XLD	Typical		Salmonella Dublin	na	IA	
CTS_881	Salmonella	enterica	enterica	Eastbourne	1	NA	na	CFX	Salmonella Eastbourne or Poona	na	IA	A or B
CTS_881	Salmonella	enterica	enterica	Eastbourne	1	XLD	Typical	CFX	Salmonella Eastbourne or Poona	na	IA	A or B
CTS_881	Salmonella	enterica	enterica	Eastbourne	1	NA	na	OPUS	Salmonella Eastbourne or Poona	na	IA	A or B
CTS_881	Salmonella	enterica	enterica	Eastbourne	1	XLD	Typical	OPUS	Salmonella Eastbourne or Poona	na	IA	A or B
CTS_666	Salmonella	enterica	enterica	Eastbourne	1	NA	na	CFX	Salmonella Eastbourne or Poona	na	IA	A or B
CTS_666	Salmonella	enterica	enterica	Eastbourne	1	XLD	Typical	CFX	Salmonella Eastbourne or Poona	na	IA	A or B
CTS_666	Salmonella	enterica	enterica	Eastbourne	1	NA	na	OPUS	Salmonella Eastbourne or Poona	na	IA	A or B
CTS_666	Salmonella	enterica	enterica	Eastbourne	1	XLD	Typical	OPUS	Salmonella Eastbourne or Poona	na	IA	A or B
CTS_672	Salmonella	enterica	enterica	Eastbourne	1	NA	na	CFX	Salmonella Eastbourne or Poona	na	IA	A or B
CTS_672	Salmonella	enterica	enterica	Eastbourne	1	XLD	Typical	CFX	Salmonella Eastbourne or Poona	na	IA	A or B
CTS_672	Salmonella	enterica	enterica	Eastbourne	1	NA	na	OPUS	Salmonella Eastbourne or Poona	na	IA	A or B
CTS_672	Salmonella	enterica	enterica	Eastbourne	1	XLD	Typical	OPUS	Salmonella Eastbourne or Poona	na	IA	A or B
CTS_717	Salmonella	enterica	enterica	Eastbourne	1	NA	na	CFX	Salmonella Eastbourne or Poona	na	IA	A or B
CTS_717	Salmonella	enterica	enterica	Eastbourne	1	XLD	Typical	CFX	Salmonella Eastbourne or Poona	na	IA	A or B
CTS_717	Salmonella	enterica	enterica	Eastbourne	1	NA	na	OPUS	Salmonella Eastbourne or Poona	na	IA	A or B
CTS_717	Salmonella	enterica	enterica	Eastbourne	1	XLD	Typical	OPUS	Salmonella Eastbourne or Poona	na	IA	A or B

CTS_882	Salmonella	enterica	enterica	Eastbourne	1	NA	na	CFX	Salmonella Eastbourne or Poona	na	IA	A or B
CTS_882	Salmonella	enterica	enterica	Eastbourne	1	XLD	Typical	CFX	Salmonella Eastbourne or Poona	na	IA	A or B
CTS_882	Salmonella	enterica	enterica	Eastbourne	1	NA	na	OPUS	Salmonella Eastbourne or Poona	na	IA	A or B
CTS_882	Salmonella	enterica	enterica	Eastbourne	1	XLD	Typical	OPUS	Salmonella Eastbourne or Poona	na	IA	A or B
CTS_883	Salmonella	enterica	enterica	Emek	1	NA	na	CFX	Salmonella Emek	na	IA	
CTS_883	Salmonella	enterica	enterica	Emek	1	XLD	Typical	CFX	Salmonella Emek	na	IA	
CTS_883	Salmonella	enterica	enterica	Emek	1	NA	na	OPUS	Salmonella Emek	na	IA	
CTS_883	Salmonella	enterica	enterica	Emek	1	XLD	Typical	OPUS	Salmonella Emek	na	IA	
CTS_669	Salmonella	enterica	enterica	Emek	1	NA	na	CFX	Salmonella Emek	na	IA	
CTS_669	Salmonella	enterica	enterica	Emek	1	XLD	Typical	CFX	Salmonella Emek	na	IA	
CTS_669	Salmonella	enterica	enterica	Emek	1	NA	na	OPUS	Salmonella positive, Genovar 6WGEJ1	na	-	Repeat test
CTS_669	Salmonella	enterica	enterica	Emek	2	NA	na	OPUS	Salmonella Emek	na	IA	
CTS_669	Salmonella	enterica	enterica	Emek	1	XLD	Typical	OPUS	Salmonella Emek	na	IA	
CTS_709	Salmonella	enterica	enterica	Emek	1	NA	na	CFX	Salmonella Emek	na	IA	
CTS_709	Salmonella	enterica	enterica	Emek	1	XLD	Typical	CFX	Salmonella Emek	na	IA	
CTS_709	Salmonella	enterica	enterica	Emek	1	NA	na	OPUS	Salmonella Emek	na	IA	
CTS_709	Salmonella	enterica	enterica	Emek	1	XLD	Typical	OPUS	Salmonella Emek	na	IA	
CTS_760	Salmonella	enterica	enterica	Emek	1	NA	na	CFX	Salmonella Emek	na	IA	
CTS_760	Salmonella	enterica	enterica	Emek	1	XLD	Typical	CFX	Salmonella Emek	na	IA	
CTS_760	Salmonella	enterica	enterica	Emek	1	NA	na	OPUS	Salmonella Emek	na	IA	
CTS_760	Salmonella	enterica	enterica	Emek	1	XLD	Typical	OPUS	Salmonella Emek	na	IA	
CTS_808	Salmonella	enterica	enterica	enterica (I) 4,12:i:-	1	NA	na	CFX	Salmonella enterica (I) 4,12:i:- (not Typhimurium)	na	IA	
CTS_808	Salmonella	enterica	enterica	enterica (I) 4,12:i:-	1	XLD	Typical	CFX	Salmonella enterica (I) 4,12:i:- (not Typhimurium)	na	IA	
CTS_808	Salmonella	enterica	enterica	enterica (I) 4,12:i:-	1	NA	na	OPUS	Salmonella enterica (I) 4,12:i:- (not Typhimurium)	na	IA	
CTS_808	Salmonella	enterica	enterica	enterica (I) 4,12:i:-	1	XLD	Typical	OPUS	Salmonella positive, Genovar PRTEP1	na	-	Repeat test

CTS_808	Salmonella	enterica	enterica	enterica (I) 4,12:i:-	2	XLD	Typical	OPUS	Salmonella enterica (I) 4.12:i:- (not Typhimurium)	na	IA
CTS_812	Salmonella	enterica	enterica	enterica (I) 4,12:i:-	1	NA	na	CFX	Salmonella enterica (I) 4.12:i:- (not Typhimurium)	na	IA
CTS_812	Salmonella	enterica	enterica	enterica (I) 4,12:i:-	1	XLD	Typical	CFX	Salmonella enterica (I) 4.12:i:- (not Typhimurium)	na	IA
CTS_812	Salmonella	enterica	enterica	enterica (I) 4,12:i:-	1	NA	na	OPUS	Salmonella enterica (I) 4.12:i:- (not Typhimurium)	na	IA
CTS_812	Salmonella	enterica	enterica	enterica (I) 4,12:i:-	1	XLD	Typical	OPUS	Salmonella enterica (I) 4.12:i:- (not Typhimurium)	na	IA
CTS_813	Salmonella	enterica	enterica	enterica (I) 4,12:i:-	1	NA	na	CFX	Salmonella enterica (I) 4.12:i:- (not Typhimurium)	na	IA
CTS_813	Salmonella	enterica	enterica	enterica (I) 4,12:i:-	1	XLD	Typical	CFX	Salmonella enterica (I) 4.12:i:- (not Typhimurium)	na	IA
CTS_813	Salmonella	enterica	enterica	enterica (I) 4,12:i:-	1	NA	na	OPUS	Salmonella enterica (I) 4.12:i:- (not Typhimurium)	na	IA
CTS_813	Salmonella	enterica	enterica	enterica (I) 4,12:i:-	1	XLD	Typical	OPUS	Salmonella enterica (I) 4.12:i:- (not Typhimurium)	na	IA
CTS_818	Salmonella	enterica	enterica	enterica (I) 4,12:i:-	1	NA	na	CFX	Salmonella enterica (I) 4.12:i:- (not Typhimurium)	na	IA
CTS_818	Salmonella	enterica	enterica	enterica (I) 4,12:i:-	1	XLD	Typical	CFX	Salmonella enterica (I) 4.12:i:- (not Typhimurium)	na	IA
CTS_818	Salmonella	enterica	enterica	enterica (I) 4,12:i:-	1	NA	na	OPUS	Salmonella enterica (I) 4.12:i:- (not Typhimurium)	na	IA

CTS_818	Salmonella	enterica	enterica	enterica (I) 4,12:i:-	1	XLD	Typical	OPUS	Salmonella enterica (I) 4.12:i:- (not Typhimurium)	na	IA
CTS_884	Salmonella	enterica	enterica	enterica (I) 4.12:i:- (not Typhimurium)	1	NA	na	CFX	Salmonella enterica (I) 4.12:i:- (not Typhimurium)	na	IA
CTS_884	Salmonella	enterica	enterica	enterica (I) 4.12:i:- (not Typhimurium)	1	XLD	Typical	CFX	Salmonella enterica (I) 4.12:i:- (not Typhimurium)	na	IA
CTS_884	Salmonella	enterica	enterica	enterica (I) 4.12:i:- (not Typhimurium)	1	NA	na	OPUS	Salmonella enterica (I) 4.12:i:- (not Typhimurium)	na	IA
CTS_884	Salmonella	enterica	enterica	enterica (I) 4.12:i:- (not Typhimurium)	1	XLD	Typical	Opus	Salmonella enterica (I) 4.12:i:- (not Typhimurium)	na	IA
CTS_885	Salmonella	enterica	enterica	Enteritidis	1	NA	na	CFX	Salmonella Enteritidis	IA	IA
CTS_885	Salmonella	enterica	enterica	Enteritidis	1	XLD	Typical	CFX	Salmonella Enteritidis	IA	IA
CTS_885	Salmonella	enterica	enterica	Enteritidis	1	NA	na	OPUS	Salmonella Enteritidis	IA	IA
CTS_885	Salmonella	enterica	enterica	Enteritidis	1	XLD	Typical	OPUS	Salmonella Enteritidis	IA	IA
CTS_094	Salmonella	enterica	enterica	Enteritidis	1	NA	na	CFX	Salmonella Enteritidis	IA	IA
CTS_094	Salmonella	enterica	enterica	Enteritidis	1	XLD	Typical	CFX	Salmonella Enteritidis	IA	IA
CTS_094	Salmonella	enterica	enterica	Enteritidis	1	NA	na	OPUS	Salmonella Enteritidis	IA	IA
CTS_094	Salmonella	enterica	enterica	Enteritidis	1	XLD	Typical	OPUS	Salmonella Enteritidis	IA	IA
CTS_096	Salmonella	enterica	enterica	Enteritidis	1	NA	na	CFX	Salmonella Enteritidis	IA	IA
CTS_096	Salmonella	enterica	enterica	Enteritidis	1	XLD	Typical	CFX	Salmonella Enteritidis	IA	IA
CTS_096	Salmonella	enterica	enterica	Enteritidis	1	NA	na	OPUS	Salmonella Enteritidis	IA	IA
CTS_096	Salmonella	enterica	enterica	Enteritidis	1	XLD	Typical	OPUS	Salmonella Enteritidis	IA	IA
CTS_097	Salmonella	enterica	enterica	Enteritidis	1	NA	na	CFX	Salmonella Enteritidis	IA	IA
CTS_097	Salmonella	enterica	enterica	Enteritidis	1	XLD	Typical	CFX	Salmonella Enteritidis	IA	IA
CTS_097	Salmonella	enterica	enterica	Enteritidis	1	NA	na	OPUS	Salmonella Enteritidis	IA	IA
CTS_097	Salmonella	enterica	enterica	Enteritidis	1	XLD	Typical	OPUS	Salmonella Enteritidis	IA	IA
CTS_098	Salmonella	enterica	enterica	Enteritidis	1	NA	na	CFX	Salmonella Enteritidis	na	IA
CTS_098	Salmonella	enterica	enterica	Enteritidis	1	XLD	Typical	CFX	Salmonella Enteritidis	na	IA
CTS_098	Salmonella	enterica	enterica	Enteritidis	1	NA	na	OPUS	Salmonella Enteritidis	na	IA
CTS_098	Salmonella	enterica	enterica	Enteritidis	1	XLD	Typical	OPUS	Salmonella Enteritidis	na	IA
CTS_886	Salmonella	enterica	enterica	Fresno	1	NA	na	CFX	Salmonella positive, Genovar 4SSPY1	na	inconclusive result CTS_888 added



CTS_886	Salmonella	enterica	enterica	Fresno	1	XLD	Typical	CFX	Salmonella positive, Genovar 4RSPY1	na	inconclusive result	CTS_888 added
CTS_886	Salmonella	enterica	enterica	Fresno	1	NA	na	OPUS	Salmonella positive, Genovar 4SSPY1	na	inconclusive result	CTS_888 added
CTS_886	Salmonella	enterica	enterica	Fresno	1	XLD	Typical	OPUS	Salmonella positive, Genovar 4RSPY1	na	inconclusive result	CTS_888 added
CTS_887	Salmonella	enterica	enterica	Fresno	1	NA	na	CFX	Salmonella Cubana or Fresno	na	IA	A or B
CTS_887	Salmonella	enterica	enterica	Fresno	1	XLD	Typical	CFX	Salmonella Cubana or Fresno	na	IA	A or B
CTS_887	Salmonella	enterica	enterica	Fresno	1	NA	na	OPUS	Salmonella Cubana or Fresno	na	IA	A or B
CTS_887	Salmonella	enterica	enterica	Fresno	1	XLD	Typical	OPUS	Salmonella Cubana or Fresno	na	IA	A or B
CTS_888	Salmonella	enterica	enterica	Fresno	1	NA	na	CFX	Salmonella Cubana or Fresno	na	IA	A or B
CTS_888	Salmonella	enterica	enterica	Fresno	1	XLD	Typical	CFX	Salmonella Cubana or Fresno	na	IA	A or B
CTS_888	Salmonella	enterica	enterica	Fresno	1	NA	na	OPUS	Salmonella Cubana or Fresno	na	IA	A or B
CTS_888	Salmonella	enterica	enterica	Fresno	1	XLD	Typical	OPUS	Salmonella Cubana or Fresno	na	IA	A or B
CTS_714	Salmonella	enterica	enterica	Fresno	1	NA	na	CFX	Salmonella Cubana or Fresno	na	IA	A or B
CTS_714	Salmonella	enterica	enterica	Fresno	1	XLD	Typical	CFX	Salmonella Cubana or Fresno	na	IA	A or B
CTS_714	Salmonella	enterica	enterica	Fresno	1	NA	na	OPUS	Salmonella Cubana or Fresno	na	IA	A or B
CTS_714	Salmonella	enterica	enterica	Fresno	1	XLD	Typical	OPUS	Salmonella Cubana or Fresno	na	IA	A or B
CTS_757	Salmonella	enterica	enterica	Fresno	1	NA	na	CFX	Salmonella Cubana or Fresno	na	IA	A or B
CTS_757	Salmonella	enterica	enterica	Fresno	1	XLD	Typical	CFX	Salmonella Cubana or Fresno	na	IA	A or B
CTS_757	Salmonella	enterica	enterica	Fresno	1	NA	na	OPUS	Salmonella Cubana or Fresno	na	IA	A or B

CTS_757	Salmonella	enterica	enterica	Fresno	1	XLD	Typical	OPUS	Salmonella Cubana or Fresno	na	IA	A or B
CTS_768	Salmonella	enterica	enterica	Fresno	1	NA	na	CFX	Salmonella Cubana or Fresno	na	IA	A or B
CTS_768	Salmonella	enterica	enterica	Fresno	1	XLD	Typical	CFX	Salmonella Cubana or Fresno	na	IA	A or B
CTS_768	Salmonella	enterica	enterica	Fresno	1	NA	na	OPUS	Salmonella Cubana or Fresno	na	IA	A or B
CTS_768	Salmonella	enterica	enterica	Fresno	1	XLD	Typical	OPUS	Salmonella Cubana or Fresno	na	IA	A or B
CTS_100	Salmonella	enterica	enterica	Gallinarum Gallinarum	1	NA	na	CFX	Salmonella Gallinarum Gallinarum	IA	IA	
CTS_100	Salmonella	enterica	enterica	Gallinarum Gallinarum	1	XLD	Typical	CFX	Salmonella Gallinarum Gallinarum	IA	IA	
CTS_100	Salmonella	enterica	enterica	Gallinarum Gallinarum	1	NA	na	OPUS	Salmonella Gallinarum Gallinarum	IA	IA	
CTS_100	Salmonella	enterica	enterica	Gallinarum Gallinarum	1	XLD	Typical	OPUS	Salmonella Gallinarum Gallinarum	IA	IA	
CTS_102	Salmonella	enterica	enterica	Gallinarum Gallinarum	1	NA	na	CFX	Salmonella Gallinarum Gallinarum	na	IA	
CTS_102	Salmonella	enterica	enterica	Gallinarum Gallinarum	1	XLD	Typical	CFX	Salmonella Gallinarum Gallinarum	na	IA	
CTS_102	Salmonella	enterica	enterica	Gallinarum Gallinarum	1	NA	na	OPUS	Salmonella Gallinarum Gallinarum	na	IA	
CTS_102	Salmonella	enterica	enterica	Gallinarum Gallinarum	1	XLD	Typical	OPUS	Salmonella Gallinarum Gallinarum	na	IA	
CTS_103	Salmonella	enterica	enterica	Gallinarum Gallinarum	1	NA	na	CFX	Salmonella Gallinarum Gallinarum	na	IA	

CTS_103	Salmonella	enterica	enterica	Gallinarum Gallinarum	1	XLD	Typical	CFX	Salmonella Gallinarum Gallinarum	na	IA
CTS_103	Salmonella	enterica	enterica	Gallinarum Gallinarum	1	NA	na	OPUS	Salmonella Gallinarum Gallinarum	na	IA
CTS_103	Salmonella	enterica	enterica	Gallinarum Gallinarum	1	XLD	Typical	OPUS	Salmonella Gallinarum Gallinarum	na	IA
CTS_889	Salmonella	enterica	enterica	Gallinarum Gallinarum	1	NA	na	CFX	Salmonella Gallinarum Gallinarum	na	IA
CTS_889	Salmonella	enterica	enterica	Gallinarum Gallinarum	1	XLD	Typical	CFX	Salmonella Gallinarum Gallinarum	na	IA
CTS_889	Salmonella	enterica	enterica	Gallinarum Gallinarum	1	NA	na	OPUS	Salmonella positive, Genovar 4JRVY1	na	- Repeat
CTS_889	Salmonella	enterica	enterica	Gallinarum Gallinarum	2	NA	na	OPUS	Salmonella Gallinarum Gallinarum	na	IA
CTS_889	Salmonella	enterica	enterica	Gallinarum Gallinarum	1	XLD	Typical	Opus	Salmonella Gallinarum Gallinarum	na	IA
CTS_890	Salmonella	enterica	enterica	Gallinarum Gallinarum	1	NA	na	CFX	Salmonella Gallinarum Gallinarum	na	IA
CTS_890	Salmonella	enterica	enterica	Gallinarum Gallinarum	1	XLD	Typical	CFX	Salmonella Gallinarum Gallinarum	na	IA
CTS_890	Salmonella	enterica	enterica	Gallinarum Gallinarum	1	NA	na	OPUS	Salmonella Gallinarum Gallinarum	na	IA
CTS_890	Salmonella	enterica	enterica	Gallinarum Gallinarum	1	XLD	Typical	Opus	Salmonella Gallinarum Gallinarum	na	IA
CTS_105	Salmonella	enterica	enterica	Gallinarum Pullorum	1	NA	na	CFX	Salmonella Gallinarum Pullorum	IA	IA

CTS_105	Salmonella	enterica	enterica	Gallinarum Pullorum	1	XLD	Typical	CFX	Salmonella Gallinarum Pullorum	IA	IA
CTS_105	Salmonella	enterica	enterica	Gallinarum Pullorum	1	NA	na	OPUS	Salmonella Gallinarum Pullorum	IA	IA
CTS_105	Salmonella	enterica	enterica	Gallinarum Pullorum	1	XLD	Typical	OPUS	Salmonella Gallinarum Pullorum	IA	IA
CTS_106	Salmonella	enterica	enterica	Gallinarum Pullorum	1	NA	na	CFX	Salmonella Gallinarum Pullorum	na	IA
CTS_106	Salmonella	enterica	enterica	Gallinarum Pullorum	1	XLD	Typical	CFX	Salmonella Gallinarum Pullorum	na	IA
CTS_106	Salmonella	enterica	enterica	Gallinarum Pullorum	1	NA	na	OPUS	Salmonella Gallinarum Pullorum	na	IA
CTS_106	Salmonella	enterica	enterica	Gallinarum Pullorum	1	XLD	Typical	OPUS	Salmonella Gallinarum Pullorum	na	IA
CTS_107	Salmonella	enterica	enterica	Gallinarum Pullorum	1	NA	na	CFX	Salmonella Gallinarum Pullorum	na	IA
CTS_107	Salmonella	enterica	enterica	Gallinarum Pullorum	1	XLD	Typical	CFX	Salmonella Gallinarum Pullorum	na	IA
CTS_107	Salmonella	enterica	enterica	Gallinarum Pullorum	1	NA	na	OPUS	Salmonella Gallinarum Pullorum	na	IA
CTS_107	Salmonella	enterica	enterica	Gallinarum Pullorum	1	XLD	Typical	OPUS	Salmonella Gallinarum Pullorum	na	IA
CTS_108	Salmonella	enterica	enterica	Gallinarum Pullorum	1	NA	na	CFX	Salmonella Gallinarum Pullorum	na	IA
CTS_108	Salmonella	enterica	enterica	Gallinarum Pullorum	1	XLD	Typical	CFX	Salmonella positive, Genovar 4TR2Y1	na	- Repeat test
CTS_108	Salmonella	enterica	enterica	Gallinarum Pullorum	2	XLD	Typical	CFX	Salmonella Gallinarum Pullorum	na	IA
CTS_108	Salmonella	enterica	enterica	Gallinarum Pullorum	1	NA	na	OPUS	Salmonella Gallinarum Pullorum	na	IA
CTS_108	Salmonella	enterica	enterica	Gallinarum Pullorum	1	XLD	Typical	OPUS	Salmonella Gallinarum Pullorum	na	IA
CTS_767	Salmonella	enterica	enterica	Gaminara	1	NA	na	CFX	Salmonella Gaminara	na	IA
CTS_767	Salmonella	enterica	enterica	Gaminara	1	XLD	Typical	CFX	Salmonella Gaminara	na	IA
CTS_767	Salmonella	enterica	enterica	Gaminara	1	NA	na	OPUS	Salmonella Gaminara	na	IA
CTS_767	Salmonella	enterica	enterica	Gaminara	1	XLD	Typical	OPUS	Salmonella Gaminara	na	IA
CTS_891	Salmonella	enterica	enterica	Gaminara	1	NA	na	CFX	Salmonella Gaminara	na	IA

CTS_891	Salmonella	enterica	enterica	Gaminara	1	XLD	Typical	CFX	Salmonella Gaminara	na	IA
CTS_891	Salmonella	enterica	enterica	Gaminara	1	NA	na	OPUS	Salmonella Gaminara	na	IA
CTS_891	Salmonella	enterica	enterica	Gaminara	1	XLD	Typical	OPUS	Salmonella Gaminara	na	IA
CTS_892	Salmonella	enterica	enterica	Gaminara	1	NA	na	CFX	Salmonella Gaminara	na	IA
CTS_892	Salmonella	enterica	enterica	Gaminara	1	XLD	Typical	CFX	Salmonella Gaminara	na	IA
CTS_892	Salmonella	enterica	enterica	Gaminara	1	NA	na	OPUS	Salmonella Gaminara	na	IA
CTS_892	Salmonella	enterica	enterica	Gaminara	1	XLD	Typical	OPUS	Salmonella Gaminara	na	IA
CTS_893	Salmonella	enterica	enterica	Gaminara	1	NA	na	CFX	Salmonella Gaminara	na	IA
CTS_893	Salmonella	enterica	enterica	Gaminara	1	XLD	Typical	CFX	Salmonella Gaminara	na	IA
CTS_893	Salmonella	enterica	enterica	Gaminara	1	NA	na	OPUS	Salmonella Gaminara	na	IA
CTS_893	Salmonella	enterica	enterica	Gaminara	1	XLD	Typical	OPUS	Salmonella Gaminara	na	IA
CTS_894	Salmonella	enterica	enterica	Gaminara	1	NA	na	CFX	Salmonella Gaminara	na	IA
CTS_894	Salmonella	enterica	enterica	Gaminara	1	XLD	Typical	CFX	Salmonella Gaminara	na	IA
CTS_894	Salmonella	enterica	enterica	Gaminara	1	NA	na	OPUS	Salmonella Gaminara	na	IA
CTS_894	Salmonella	enterica	enterica	Gaminara	1	XLD	Typical	OPUS	Salmonella Gaminara	na	IA
CTS_895	Salmonella	enterica	enterica	Give	1	NA	na	CFX	Salmonella Give	IA	IA
CTS_895	Salmonella	enterica	enterica	Give	1	XLD	Typical	CFX	Salmonella Give	IA	IA
CTS_895	Salmonella	enterica	enterica	Give	1	NA	na	OPUS	Salmonella Give	IA	IA
CTS_895	Salmonella	enterica	enterica	Give	1	XLD	Typical	OPUS	Salmonella Give	IA	IA
CTS_896	Salmonella	enterica	enterica	Give	1	NA	na	CFX	Salmonella Give	na	IA
CTS_896	Salmonella	enterica	enterica	Give	1	XLD	Typical	CFX	Salmonella Give	na	IA
CTS_896	Salmonella	enterica	enterica	Give	1	NA	na	OPUS	Salmonella Give	na	IA
CTS_896	Salmonella	enterica	enterica	Give	1	XLD	Typical	OPUS	Salmonella Give	na	IA
CTS_897	Salmonella	enterica	enterica	Give	1	NA	na	CFX	Salmonella Give	na	IA
CTS_897	Salmonella	enterica	enterica	Give	1	XLD	Typical	CFX	Salmonella Give	na	IA
CTS_897	Salmonella	enterica	enterica	Give	1	NA	na	OPUS	Salmonella Give	na	IA
CTS_897	Salmonella	enterica	enterica	Give	1	XLD	Typical	OPUS	Salmonella Give	na	IA
CTS_112	Salmonella	enterica	enterica	Give	1	NA	na	CFX	Salmonella Give	na	IA
CTS_112	Salmonella	enterica	enterica	Give	1	XLD	Typical	CFX	Salmonella Give	na	IA
CTS_112	Salmonella	enterica	enterica	Give	1	NA	na	OPUS	Salmonella Give	na	IA
CTS_112	Salmonella	enterica	enterica	Give	1	XLD	Typical	OPUS	Salmonella Give	na	IA
CTS_113	Salmonella	enterica	enterica	Give	1	NA	na	CFX	Salmonella Give	na	IA
CTS_113	Salmonella	enterica	enterica	Give	1	XLD	Typical	CFX	Salmonella Give	na	IA
CTS_113	Salmonella	enterica	enterica	Give	1	NA	na	OPUS	Salmonella Give	na	IA
CTS_113	Salmonella	enterica	enterica	Give	1	XLD	Typical	OPUS	Salmonella Give	na	IA
CTS_898	Salmonella	enterica	enterica	Gloucester	1	NA	na	CFX	Salmonella Gloucester	na	IA

CTS_898	Salmonella	enterica	enterica	Gloucester	1	XLD	Typical	CFX	Salmonella positive, Genovar ERGVY1	na	-	Repeat test
CTS_898	Salmonella	enterica	enterica	Gloucester	2	XLD	Typical	CFX	Salmonella Gloucester	na	IA	
CTS_898	Salmonella	enterica	enterica	Gloucester	1	NA	na	OPUS	Salmonella Gloucester	na	IA	
CTS_898	Salmonella	enterica	enterica	Gloucester	1	XLD	Typical	OPUS	Salmonella Gloucester	na	IA	
CTS_564	Salmonella	enterica	enterica	Gloucester	1	NA	na	CFX	Salmonella Gloucester	na	IA	
CTS_564	Salmonella	enterica	enterica	Gloucester	1	XLD	Typical	CFX	Salmonella Gloucester	na	IA	
CTS_564	Salmonella	enterica	enterica	Gloucester	1	NA	na	OPUS	Salmonella Gloucester	na	IA	
CTS_564	Salmonella	enterica	enterica	Gloucester	1	XLD	Typical	OPUS	Salmonella Gloucester	na	IA	
CTS_571	Salmonella	enterica	enterica	Gloucester	1	NA	na	CFX	Salmonella Gloucester	na	IA	
CTS_571	Salmonella	enterica	enterica	Gloucester	1	XLD	Typical	CFX	Salmonella Gloucester	na	IA	
CTS_571	Salmonella	enterica	enterica	Gloucester	1	NA	na	OPUS	Salmonella Gloucester	na	IA	
CTS_571	Salmonella	enterica	enterica	Gloucester	1	XLD	Typical	OPUS	Salmonella Gloucester	na	IA	
CTS_615	Salmonella	enterica	enterica	Gloucester	1	NA	na	CFX	Salmonella Gloucester	na	IA	
CTS_615	Salmonella	enterica	enterica	Gloucester	1	XLD	Typical	CFX	Salmonella Gloucester	na	IA	
CTS_615	Salmonella	enterica	enterica	Gloucester	1	NA	na	OPUS	Salmonella Gloucester	na	IA	
CTS_615	Salmonella	enterica	enterica	Gloucester	1	XLD	Typical	OPUS	Salmonella Gloucester	na	IA	
CTS_703	Salmonella	enterica	enterica	Gloucester	1	NA	na	CFX	Salmonella Gloucester	na	IA	
CTS_703	Salmonella	enterica	enterica	Gloucester	1	XLD	Typical	CFX	Salmonella positive, Genovar EGGVY1	na	-	Repeat test

CTS_703	Salmonella	enterica	enterica	Gloucester	2	XLD	Typical	CFX	Salmonella Gloucester	na	IA
CTS_703	Salmonella	enterica	enterica	Gloucester	1	NA	na	OPUS	Salmonella Gloucester	na	IA
CTS_703	Salmonella	enterica	enterica	Gloucester	1	XLD	Typical	OPUS	Salmonella Gloucester	na	IA
CTS_116	Salmonella	enterica	enterica	Goldcoast	1	NA	na	CFX	Salmonella Goldcoast	na	IA
CTS_116	Salmonella	enterica	enterica	Goldcoast	1	XLD	Typical	CFX	Salmonella Goldcoast	na	IA
CTS_116	Salmonella	enterica	enterica	Goldcoast	1	NA	na	OPUS	Salmonella Goldcoast	na	IA
CTS_116	Salmonella	enterica	enterica	Goldcoast	1	XLD	Typical	OPUS	Salmonella Goldcoast	na	IA
CTS_117	Salmonella	enterica	enterica	Goldcoast	1	NA	na	CFX	Salmonella Goldcoast	na	IA
CTS_117	Salmonella	enterica	enterica	Goldcoast	1	XLD	Typical	CFX	Salmonella Goldcoast	na	IA
CTS_117	Salmonella	enterica	enterica	Goldcoast	1	NA	na	OPUS	Salmonella Goldcoast	na	IA
CTS_117	Salmonella	enterica	enterica	Goldcoast	1	XLD	Typical	OPUS	Salmonella Goldcoast	na	IA
CTS_118	Salmonella	enterica	enterica	Goldcoast	1	NA	na	CFX	Salmonella Goldcoast	IA	IA
CTS_118	Salmonella	enterica	enterica	Goldcoast	1	XLD	Typical	CFX	Salmonella Goldcoast	IA	IA
CTS_118	Salmonella	enterica	enterica	Goldcoast	1	NA	na	OPUS	Salmonella Goldcoast	IA	IA
CTS_118	Salmonella	enterica	enterica	Goldcoast	1	XLD	Typical	OPUS	Salmonella Goldcoast	IA	IA
CTS_899	Salmonella	enterica	enterica	Goldcoast	1	NA	na	CFX	Salmonella Goldcoast	IA	IA
CTS_899	Salmonella	enterica	enterica	Goldcoast	1	XLD	Typical	CFX	Salmonella Goldcoast	IA	IA
CTS_899	Salmonella	enterica	enterica	Goldcoast	1	NA	na	OPUS	Salmonella Goldcoast	IA	IA
CTS_899	Salmonella	enterica	enterica	Goldcoast	1	XLD	Typical	OPUS	Salmonella Goldcoast	IA	IA
CTS_900	Salmonella	enterica	enterica	Goldcoast	1	NA	na	CFX	Salmonella positive, Genovar CRMKP1	na	- Repeat
CTS_900	Salmonella	enterica	enterica	Goldcoast	2	NA	na	CFX	Salmonella positive, Genovar CRMKP1	na	inconclusive result CTS_901 added
CTS_900	Salmonella	enterica	enterica	Goldcoast	1	XLD	Typical	CFX	Salmonella Goldcoast	na	IA
CTS_900	Salmonella	enterica	enterica	Goldcoast	1	NA	na	OPUS	Salmonella Goldcoast	na	IA
CTS_900	Salmonella	enterica	enterica	Goldcoast	1	XLD	Typical	OPUS	Salmonella Goldcoast	na	IA
CTS_901	Salmonella	enterica	enterica	Goldcoast	1	NA	na	CFX	Salmonella Goldcoast	na	IA
CTS_901	Salmonella	enterica	enterica	Goldcoast	1	XLD	Typical	CFX	Salmonella Goldcoast	na	IA
CTS_901	Salmonella	enterica	enterica	Goldcoast	1	NA	na	OPUS	Salmonella Goldcoast	na	IA
CTS_901	Salmonella	enterica	enterica	Goldcoast	1	XLD	Typical	OPUS	Salmonella Goldcoast	na	IA
CTS_119	Salmonella	enterica	enterica	Hadar	1	NA	na	CFX	Salmonella Hadar	IA	IA
CTS_119	Salmonella	enterica	enterica	Hadar	1	XLD	Typical	CFX	Salmonella Hadar	IA	IA
CTS_119	Salmonella	enterica	enterica	Hadar	1	NA	na	OPUS	Salmonella Hadar	IA	IA
CTS_119	Salmonella	enterica	enterica	Hadar	1	XLD	Typical	OPUS	Salmonella Hadar	IA	IA

CTS_121	Salmonella	enterica	enterica	Hadar	1	NA	na	CFX	Salmonella Hadar	IA	IA
CTS_121	Salmonella	enterica	enterica	Hadar	1	XLD	Typical	CFX	Salmonella Hadar	IA	IA
CTS_121	Salmonella	enterica	enterica	Hadar	1	NA	na	OPUS	Salmonella Hadar	IA	IA
CTS_121	Salmonella	enterica	enterica	Hadar	1	XLD	Typical	OPUS	Salmonella Hadar	IA	IA
CTS_122	Salmonella	enterica	enterica	Hadar	1	NA	na	CFX	Salmonella Hadar	IA	IA
CTS_122	Salmonella	enterica	enterica	Hadar	1	XLD	Typical	CFX	Salmonella Hadar	IA	IA
CTS_122	Salmonella	enterica	enterica	Hadar	1	NA	na	OPUS	Salmonella Hadar	IA	IA
CTS_122	Salmonella	enterica	enterica	Hadar	1	XLD	Typical	OPUS	Salmonella Hadar	IA	IA
CTS_123	Salmonella	enterica	enterica	Hadar	1	NA	na	CFX	Salmonella Hadar	na	IA
CTS_123	Salmonella	enterica	enterica	Hadar	1	XLD	Typical	CFX	Salmonella Hadar	na	IA
CTS_123	Salmonella	enterica	enterica	Hadar	2	XLD	Typical	CFX	Salmonella Hadar	na	IA
CTS_123	Salmonella	enterica	enterica	Hadar	1	NA	na	OPUS	Salmonella Hadar	na	IA
CTS_123	Salmonella	enterica	enterica	Hadar	1	XLD	Typical	OPUS	Salmonella Hadar	na	IA
CTS_510	Salmonella	enterica	enterica	Hadar	1	NA	na	CFX	Salmonella Hadar	na	IA
CTS_510	Salmonella	enterica	enterica	Hadar	1	XLD	Typical	CFX	Salmonella Hadar	na	IA
CTS_510	Salmonella	enterica	enterica	Hadar	2	XLD	Typical	CFX	Salmonella Hadar	na	IA
CTS_510	Salmonella	enterica	enterica	Hadar	1	NA	na	OPUS	Salmonella Hadar	na	IA
CTS_510	Salmonella	enterica	enterica	Hadar	1	XLD	Typical	OPUS	Salmonella Hadar	na	IA
CTS_518	Salmonella	enterica	enterica	Hadar	1	NA	na	CFX	Salmonella Hadar	na	IA
CTS_518	Salmonella	enterica	enterica	Hadar	1	XLD	Typical	CFX	Salmonella positive, Genovar YWRQT1	na	- Repeat test
CTS_518	Salmonella	enterica	enterica	Hadar	2	XLD	Typical	CFX	Salmonella positive, Genovar YWRQT1	na	Inconclusive result CTS_533 added
CTS_518	Salmonella	enterica	enterica	Hadar	1	NA	na	OPUS	Salmonella Hadar	na	IA
CTS_518	Salmonella	enterica	enterica	Hadar	1	XLD	Typical	OPUS	Salmonella positive, Genovar YWRQT1	na	-
CTS_533	Salmonella	enterica	enterica	Hadar	1	NA	na	CFX	Salmonella Hadar	IA	IA
CTS_533	Salmonella	enterica	enterica	Hadar	1	XLD	Typical	CFX	Salmonella Hadar	IA	IA
CTS_533	Salmonella	enterica	enterica	Hadar	1	NA	na	OPUS	Salmonella Hadar	IA	IA
CTS_533	Salmonella	enterica	enterica	Hadar	1	XLD	Typical	OPUS	Salmonella Hadar	IA	IA
CTS_534	Salmonella	enterica	enterica	Hadar	1	NA	na	CFX	Salmonella Hadar	na	IA
CTS_534	Salmonella	enterica	enterica	Hadar	2	NA	na	CFX	Salmonella Hadar	na	IA
CTS_534	Salmonella	enterica	enterica	Hadar	1	XLD	Typical	CFX	Salmonella Hadar	na	IA
CTS_534	Salmonella	enterica	enterica	Hadar	1	NA	na	OPUS	Salmonella Hadar	na	IA
CTS_534	Salmonella	enterica	enterica	Hadar	1	XLD	Typical	OPUS	Salmonella Hadar	na	IA
CTS_535	Salmonella	enterica	enterica	Hadar	1	NA	na	CFX	Salmonella Hadar	na	IA
CTS_535	Salmonella	enterica	enterica	Hadar	1	XLD	Typical	CFX	Salmonella Hadar	na	IA



CTS_535	Salmonella	enterica	enterica	Hadar	1	NA	na	OPUS	Salmonella Hadar	na	IA	
CTS_535	Salmonella	enterica	enterica	Hadar	1	XLD	Typical	OPUS	Salmonella Hadar	na	IA	
CTS_902	Salmonella	enterica	enterica	Haifa	1	NA	na	CFX	Salmonella Haifa	na	IA	
CTS_902	Salmonella	enterica	enterica	Haifa	1	XLD	Typical	CFX	Salmonella Haifa	na	IA	
CTS_902	Salmonella	enterica	enterica	Haifa	1	NA	na	OPUS	Salmonella Haifa	na	IA	
CTS_902	Salmonella	enterica	enterica	Haifa	1	XLD	Typical	OPUS	Salmonella Haifa	na	IA	
CTS_903	Salmonella	enterica	enterica	Haifa	1	NA	na	CFX	Salmonella Haifa	na	IA	
CTS_903	Salmonella	enterica	enterica	Haifa	1	XLD	Typical	CFX	Salmonella Haifa	na	IA	
CTS_903	Salmonella	enterica	enterica	Haifa	1	NA	na	OPUS	Salmonella Haifa	na	IA	
CTS_903	Salmonella	enterica	enterica	Haifa	1	XLD	Typical	OPUS	Salmonella Haifa	na	IA	
CTS_616	Salmonella	enterica	enterica	Haifa	1	NA	na	CFX	Salmonella Haifa	na	IA	
CTS_616	Salmonella	enterica	enterica	Haifa	1	XLD	Typical	CFX	Salmonella Haifa	na	IA	
CTS_616	Salmonella	enterica	enterica	Haifa	1	NA	na	OPUS	Salmonella Haifa	na	IA	
CTS_616	Salmonella	enterica	enterica	Haifa	1	XLD	Typical	OPUS	Salmonella Haifa	na	IA	
CTS_624	Salmonella	enterica	enterica	Haifa	1	NA	na	CFX	Salmonella Haifa	na	IA	
CTS_624	Salmonella	enterica	enterica	Haifa	1	XLD	Typical	CFX	Salmonella Haifa	na	IA	
CTS_624	Salmonella	enterica	enterica	Haifa	1	NA	na	OPUS	Salmonella positive, Genovar YWJAT1	na	-	Repeat test
CTS_624	Salmonella	enterica	enterica	Haifa	2	NA	na	OPUS	Salmonella Haifa	na	IA	
CTS_624	Salmonella	enterica	enterica	Haifa	1	XLD	Typical	OPUS	Salmonella Haifa	na	IA	
CTS_788	Salmonella	enterica	enterica	Haifa	1	NA	na	CFX	Salmonella Haifa	na	IA	
CTS_788	Salmonella	enterica	enterica	Haifa	1	XLD	Typical	CFX	Salmonella Haifa	na	IA	
CTS_788	Salmonella	enterica	enterica	Haifa	1	NA	na	OPUS	Salmonella Haifa	na	IA	
CTS_788	Salmonella	enterica	enterica	Haifa	1	XLD	Typical	OPUS	Salmonella Haifa	na	IA	
CTS_904	Salmonella	enterica	enterica	Hartford	1	NA	na	CFX	Salmonella positive, Genovar CSTPW1	na	inconclusive result	Test (typing) was not repeated
CTS_904	Salmonella	enterica	enterica	Hartford	1	XLD	Typical	CFX	Salmonella positive, Genovar CSTPW1	na	inconclusive result	Test (typing) was not repeated
CTS_904	Salmonella	enterica	enterica	Hartford	1	NA	na	OPUS	Salmonella positive, Genovar CSTPW1	na	inconclusive result	Test (typing) was not repeated
CTS_904	Salmonella	enterica	enterica	Hartford	1	XLD	Typical	OPUS	Salmonella positive, Genovar CSTPW1	na	inconclusive result	Test (typing) was not repeated
CTS_658	Salmonella	enterica	enterica	Hartford	1	NA	na	CFX	Salmonella Hartford	na	IA	
CTS_658	Salmonella	enterica	enterica	Hartford	1	XLD	Typical	CFX	Salmonella Hartford	na	IA	
CTS_658	Salmonella	enterica	enterica	Hartford	1	NA	na	OPUS	Salmonella Hartford	na	IA	
CTS_658	Salmonella	enterica	enterica	Hartford	1	XLD	Typical	OPUS	Salmonella Hartford	na	IA	
CTS_664	Salmonella	enterica	enterica	Hartford	1	NA	na	CFX	Salmonella Hartford	na	IA	



CTS_664	Salmonella	enterica	enterica	Hartford	1	XLD	Typical	CFX	Salmonella Hartford	na	IA
CTS_664	Salmonella	enterica	enterica	Hartford	1	NA	na	OPUS	Salmonella Hartford	na	IA
CTS_664	Salmonella	enterica	enterica	Hartford	1	XLD	Typical	OPUS	Salmonella Hartford	na	IA
CTS_711	Salmonella	enterica	enterica	Hartford	1	NA	na	CFX	Salmonella Hartford	na	IA
CTS_711	Salmonella	enterica	enterica	Hartford	1	XLD	Typical	CFX	Salmonella Hartford	na	IA
CTS_711	Salmonella	enterica	enterica	Hartford	1	NA	na	OPUS	Salmonella Hartford	na	IA
CTS_711	Salmonella	enterica	enterica	Hartford	1	XLD	Typical	OPUS	Salmonella Hartford	na	IA
CTS_905	Salmonella	enterica	enterica	Hartford	1	NA	na	CFX	Salmonella positive, Genovar CSTKY1	na	inconclusive result CTS_904 added
CTS_905	Salmonella	enterica	enterica	Hartford	1	XLD	Typical	CFX	Salmonella positive, Genovar CSTKY1	na	inconclusive result CTS_904 added
CTS_905	Salmonella	enterica	enterica	Hartford	1	NA	na	OPUS	Salmonella positive, Genovar CSTKY1	na	inconclusive result CTS_904 added
CTS_905	Salmonella	enterica	enterica	Hartford	1	XLD	Typical	OPUS	Salmonella positive, Genovar CSTKY1	na	inconclusive result CTS_904 added
CTS_906	Salmonella	enterica	enterica	Havana	1	NA	na	CFX	Salmonella Havana	na	IA
CTS_906	Salmonella	enterica	enterica	Havana	1	XLD	Typical	CFX	Salmonella Havana	na	IA
CTS_906	Salmonella	enterica	enterica	Havana	1	NA	na	OPUS	Salmonella Havana	na	IA
CTS_906	Salmonella	enterica	enterica	Havana	1	XLD	Typical	OPUS	Salmonella Havana	na	IA
CTS_907	Salmonella	enterica	enterica	Havana	1	NA	na	CFX	Salmonella Havana	na	IA
CTS_907	Salmonella	enterica	enterica	Havana	1	XLD	Typical	CFX	Salmonella Havana	na	IA
CTS_907	Salmonella	enterica	enterica	Havana	1	NA	na	OPUS	Salmonella Havana	na	IA
CTS_907	Salmonella	enterica	enterica	Havana	1	XLD	Typical	OPUS	Salmonella Havana	na	IA
CTS_908	Salmonella	enterica	enterica	Havana	1	NA	na	CFX	Salmonella Havana	na	IA
CTS_908	Salmonella	enterica	enterica	Havana	1	XLD	Typical	CFX	Salmonella Havana	na	IA
CTS_908	Salmonella	enterica	enterica	Havana	1	NA	na	OPUS	Salmonella Havana	na	IA
CTS_908	Salmonella	enterica	enterica	Havana	1	XLD	Typical	OPUS	Salmonella Havana	na	IA
CTS_909	Salmonella	enterica	enterica	Havana	1	NA	na	CFX	Salmonella Havana	IA	IA
CTS_909	Salmonella	enterica	enterica	Havana	1	XLD	Typical	CFX	Salmonella Havana	IA	IA
CTS_909	Salmonella	enterica	enterica	Havana	1	NA	na	OPUS	Salmonella Havana	IA	IA
CTS_909	Salmonella	enterica	enterica	Havana	1	XLD	Typical	OPUS	Salmonella Havana	IA	IA
CTS_910	Salmonella	enterica	enterica	Havana	1	NA	na	CFX	Salmonella Havana	IA	IA
CTS_910	Salmonella	enterica	enterica	Havana	1	XLD	Typical	CFX	Salmonella Havana	IA	IA
CTS_910	Salmonella	enterica	enterica	Havana	1	NA	na	OPUS	Salmonella Havana	IA	IA
CTS_910	Salmonella	enterica	enterica	Havana	1	XLD	Typical	OPUS	Salmonella Havana	IA	IA
CTS_911	Salmonella	enterica	enterica	Heidelberg	1	NA	na	CFX	Salmonella Heidelberg	IA	IA

CTS_911	Salmonella	enterica	enterica	Heidelberg	1	XLD	Typical	CFX	Salmonella Heidelberg	IA	IA
CTS_911	Salmonella	enterica	enterica	Heidelberg	1	NA	na	OPUS	Salmonella Heidelberg	IA	IA
CTS_911	Salmonella	enterica	enterica	Heidelberg	1	XLD	Typical	OPUS	Salmonella Heidelberg	IA	IA
CTS_912	Salmonella	enterica	enterica	Heidelberg	1	NA	na	CFX	Salmonella positive, Genovar EXPEY1	na	inconclusive result CTS_913 added
CTS_912	Salmonella	enterica	enterica	Heidelberg	1	XLD	Typical	CFX	Salmonella positive, Genovar EXPEY1	na	inconclusive result CTS_913 added
CTS_912	Salmonella	enterica	enterica	Heidelberg	1	NA	na	OPUS	Salmonella positive, Genovar EXPEY1	na	inconclusive result CTS_913 added
CTS_912	Salmonella	enterica	enterica	Heidelberg	1	XLD	Typical	OPUS	Salmonella positive, Genovar EXPEY1	na	inconclusive result CTS_913 added
CTS_129	Salmonella	enterica	enterica	Heidelberg	1	NA	na	CFX	Salmonella Heidelberg	IA	IA
CTS_129	Salmonella	enterica	enterica	Heidelberg	1	XLD	Typical	CFX	Salmonella Heidelberg	IA	IA
CTS_129	Salmonella	enterica	enterica	Heidelberg	1	NA	na	OPUS	Salmonella Heidelberg	IA	IA
CTS_129	Salmonella	enterica	enterica	Heidelberg	1	XLD	Typical	OPUS	Salmonella Heidelberg	IA	IA
CTS_132	Salmonella	enterica	enterica	Heidelberg	1	NA	na	CFX	Salmonella Heidelberg	na	IA
CTS_132	Salmonella	enterica	enterica	Heidelberg	1	XLD	Typical	CFX	Salmonella Heidelberg	na	IA
CTS_132	Salmonella	enterica	enterica	Heidelberg	1	NA	na	OPUS	Salmonella Heidelberg	na	IA
CTS_132	Salmonella	enterica	enterica	Heidelberg	1	XLD	Typical	OPUS	Salmonella Heidelberg	na	IA
CTS_133	Salmonella	enterica	enterica	Heidelberg	1	NA	na	CFX	Salmonella Heidelberg	na	IA
CTS_133	Salmonella	enterica	enterica	Heidelberg	1	XLD	Typical	CFX	Salmonella Heidelberg	na	IA
CTS_133	Salmonella	enterica	enterica	Heidelberg	1	NA	na	OPUS	Salmonella Heidelberg	na	IA

CTS_133	Salmonella	enterica	enterica	Heidelberg	1	XLD	Typical	OPUS	Salmonella Heidelberg	na	IA
CTS_913	Salmonella	enterica	enterica	Heidelberg	1	NA	na	CFX	Salmonella Heidelberg	na	IA
CTS_913	Salmonella	enterica	enterica	Heidelberg	1	XLD	Typical	CFX	Salmonella Heidelberg	na	IA
CTS_913	Salmonella	enterica	enterica	Heidelberg	1	NA	na	OPUS	Salmonella Heidelberg	na	IA
CTS_913	Salmonella	enterica	enterica	Heidelberg	1	XLD	Typical	OPUS	Salmonella positive, Genovar EXWEW1	na	- Repeat
CTS_913	Salmonella	enterica	enterica	Heidelberg	2	XLD	Typical		Salmonella Heidelberg	na	IA
CTS_536	Salmonella	enterica	enterica	Hvittingfoss	1	NA	na	CFX	Salmonella Hvittingfoss	na	IA
CTS_536	Salmonella	enterica	enterica	Hvittingfoss	1	XLD	Typical	CFX	Salmonella Hvittingfoss	na	IA
CTS_536	Salmonella	enterica	enterica	Hvittingfoss	1	NA	na	OPUS	Salmonella Hvittingfoss	na	IA
CTS_536	Salmonella	enterica	enterica	Hvittingfoss	1	XLD	Typical	OPUS	Salmonella Hvittingfoss	na	IA
CTS_596	Salmonella	enterica	enterica	Hvittingfoss	1	NA	na	CFX	Salmonella Hvittingfoss	na	IA
CTS_596	Salmonella	enterica	enterica	Hvittingfoss	1	XLD	Typical	CFX	Salmonella Hvittingfoss	na	IA
CTS_596	Salmonella	enterica	enterica	Hvittingfoss	1	NA	na	OPUS	Salmonella Hvittingfoss	na	IA
CTS_596	Salmonella	enterica	enterica	Hvittingfoss	1	XLD	Typical	OPUS	Salmonella Hvittingfoss	na	IA
CTS_914	Salmonella	enterica	enterica	Hvittingfoss	1	NA	na	CFX	Salmonella Hvittingfoss	na	IA
CTS_914	Salmonella	enterica	enterica	Hvittingfoss	1	XLD	Typical	CFX	Salmonella Hvittingfoss	na	IA
CTS_914	Salmonella	enterica	enterica	Hvittingfoss	1	NA	na	OPUS	Salmonella Hvittingfoss	na	IA
CTS_914	Salmonella	enterica	enterica	Hvittingfoss	1	XLD	Typical	OPUS	Salmonella Hvittingfoss	na	IA

CTS_915	Salmonella	enterica	enterica	Hvittingfoss	1	NA	na	CFX	Salmonella Hvittingfoss	na	IA
CTS_915	Salmonella	enterica	enterica	Hvittingfoss	1	XLD	Typical	CFX	Salmonella Hvittingfoss	na	IA
CTS_915	Salmonella	enterica	enterica	Hvittingfoss	1	NA	na	OPUS	Salmonella Hvittingfoss	na	IA
CTS_915	Salmonella	enterica	enterica	Hvittingfoss	1	XLD	Typical	OPUS	Salmonella Hvittingfoss	na	IA
CTS_916	Salmonella	enterica	enterica	Hvittingfoss	1	NA	na	CFX	Salmonella positive, Genovar CSSPP1	na	inconclusive result CTS_915 added
CTS_916	Salmonella	enterica	enterica	Hvittingfoss	1	XLD	Typical	CFX	Salmonella positive, Genovar CSSPP1	na	inconclusive result CTS_915 added
CTS_916	Salmonella	enterica	enterica	Hvittingfoss	1	NA	na	OPUS	Salmonella positive, Genovar CSSPP1	na	inconclusive result CTS_915 added
CTS_916	Salmonella	enterica	enterica	Hvittingfoss	1	XLD	Typical	OPUS	Salmonella positive, Genovar CSSPP1	na	inconclusive result CTS_915 added
CTS_135	Salmonella	enterica	enterica	Idikan	1	NA	na	CFX	Salmonella Idikan	IA	IA
CTS_135	Salmonella	enterica	enterica	Idikan	1	XLD	Typical	CFX	Salmonella Idikan	IA	IA
CTS_135	Salmonella	enterica	enterica	Idikan	1	NA	na	OPUS	Salmonella Idikan	IA	IA
CTS_135	Salmonella	enterica	enterica	Idikan	1	XLD	Typical	OPUS	Salmonella Idikan	IA	IA
CTS_136	Salmonella	enterica	enterica	Idikan	1	NA	na	CFX	Salmonella Idikan	IA	IA
CTS_136	Salmonella	enterica	enterica	Idikan	1	XLD	Typical	CFX	Salmonella Idikan	IA	IA
CTS_136	Salmonella	enterica	enterica	Idikan	1	NA	na	OPUS	Salmonella Idikan	IA	IA
CTS_136	Salmonella	enterica	enterica	Idikan	1	XLD	Typical	OPUS	Salmonella Idikan	IA	IA
CTS_137	Salmonella	enterica	enterica	Idikan	1	NA	na	CFX	Salmonella Idikan	na	IA
CTS_137	Salmonella	enterica	enterica	Idikan	1	XLD	Typical	CFX	Salmonella Idikan	na	IA
CTS_137	Salmonella	enterica	enterica	Idikan	1	NA	na	OPUS	Salmonella Idikan	na	IA
CTS_137	Salmonella	enterica	enterica	Idikan	1	XLD	Typical	OPUS	Salmonella Idikan	na	IA
CTS_138	Salmonella	enterica	enterica	Idikan	1	NA	na	CFX	Salmonella Idikan	na	IA
CTS_138	Salmonella	enterica	enterica	Idikan	1	XLD	Typical	CFX	Salmonella Idikan	na	IA
CTS_138	Salmonella	enterica	enterica	Idikan	1	NA	na	OPUS	Salmonella Idikan	na	IA
CTS_138	Salmonella	enterica	enterica	Idikan	1	XLD	Typical	OPUS	Salmonella Idikan	na	IA
CTS_917	Salmonella	enterica	enterica	Idikan	1	NA	na	CFX	Salmonella Idikan	na	IA
CTS_917	Salmonella	enterica	enterica	Idikan	1	XLD	Typical	CFX	Salmonella Idikan	na	IA
CTS_917	Salmonella	enterica	enterica	Idikan	1	NA	na	OPUS	Salmonella Idikan	na	IA
CTS_917	Salmonella	enterica	enterica	Idikan	1	XLD	Typical	OPUS	Salmonella Idikan	na	IA
CTS_918	Salmonella	enterica	enterica	Indiana	1	NA	na	CFX	Salmonella Indiana	na	IA



CTS_918	Salmonella	enterica	enterica	Indiana	1	XLD	Typical	CFX	Salmonella Indiana	na	IA
CTS_918	Salmonella	enterica	enterica	Indiana	1	NA	na	OPUS	Salmonella Indiana	na	IA
CTS_918	Salmonella	enterica	enterica	Indiana	1	XLD	Typical	OPUS	Salmonella Indiana	na	IA
CTS_919	Salmonella	enterica	enterica	Indiana	1	NA	na	CFX	Salmonella Indiana	na	IA
CTS_919	Salmonella	enterica	enterica	Indiana	1	XLD	Typical	CFX	Salmonella Indiana	na	IA
CTS_919	Salmonella	enterica	enterica	Indiana	1	NA	na	OPUS	Salmonella Indiana	na	IA
CTS_919	Salmonella	enterica	enterica	Indiana	1	XLD	Typical	OPUS	Salmonella Indiana	na	IA
CTS_650	Salmonella	enterica	enterica	Indiana	1	NA	na	CFX	Salmonella Indiana	na	IA
CTS_650	Salmonella	enterica	enterica	Indiana	1	XLD	Typical	CFX	Salmonella Indiana	na	IA
CTS_650	Salmonella	enterica	enterica	Indiana	1	NA	na	OPUS	Salmonella Indiana	na	IA
CTS_650	Salmonella	enterica	enterica	Indiana	1	XLD	Typical	OPUS	Salmonella Indiana	na	IA
CTS_692	Salmonella	enterica	enterica	Indiana	1	NA	na	CFX	Salmonella Indiana	na	IA
CTS_692	Salmonella	enterica	enterica	Indiana	1	XLD	Typical	CFX	Salmonella Indiana	na	IA
CTS_692	Salmonella	enterica	enterica	Indiana	1	NA	na	OPUS	Salmonella Indiana	na	IA
CTS_692	Salmonella	enterica	enterica	Indiana	1	XLD	Typical	OPUS	Salmonella Indiana	na	IA
CTS_800	Salmonella	enterica	enterica	Indiana	1	NA	na	CFX	Salmonella Indiana	na	IA
CTS_800	Salmonella	enterica	enterica	Indiana	1	XLD	Typical	CFX	Salmonella Indiana	na	IA
CTS_800	Salmonella	enterica	enterica	Indiana	1	NA	na	OPUS	Salmonella Indiana	na	IA
CTS_800	Salmonella	enterica	enterica	Indiana	1	XLD	Typical	OPUS	Salmonella Indiana	na	IA
CTS_920	Salmonella	enterica	enterica	Infantis	1	NA	na	CFX	Salmonella Infantis	IA	IA
CTS_920	Salmonella	enterica	enterica	Infantis	1	XLD	Typical	CFX	Salmonella Infantis	IA	IA
CTS_920	Salmonella	enterica	enterica	Infantis	1	NA	na	OPUS	Salmonella Infantis	IA	IA
CTS_920	Salmonella	enterica	enterica	Infantis	1	XLD	Typical	OPUS	Salmonella Infantis	IA	IA
CTS_921	Salmonella	enterica	enterica	Infantis	1	NA	na	CFX	Salmonella Infantis	IA	IA
CTS_921	Salmonella	enterica	enterica	Infantis	1	XLD	Typical	CFX	Salmonella Infantis	IA	IA
CTS_921	Salmonella	enterica	enterica	Infantis	1	NA	na	OPUS	Salmonella Infantis	IA	IA
CTS_921	Salmonella	enterica	enterica	Infantis	1	XLD	Typical	OPUS	Salmonella Infantis	IA	IA
CTS_140	Salmonella	enterica	enterica	Infantis	1	NA	na	CFX	Salmonella Infantis	IA	IA
CTS_140	Salmonella	enterica	enterica	Infantis	1	XLD	Typical	CFX	Salmonella Infantis	IA	IA
CTS_140	Salmonella	enterica	enterica	Infantis	1	NA	na	OPUS	Salmonella Infantis	IA	IA
CTS_140	Salmonella	enterica	enterica	Infantis	1	XLD	Typical	OPUS	Salmonella Infantis	IA	IA
CTS_142	Salmonella	enterica	enterica	Infantis	1	NA	na	CFX	Salmonella Infantis	IA	IA
CTS_142	Salmonella	enterica	enterica	Infantis	1	XLD	Typical	CFX	Salmonella Infantis	IA	IA
CTS_142	Salmonella	enterica	enterica	Infantis	1	NA	na	OPUS	Salmonella Infantis	IA	IA
CTS_142	Salmonella	enterica	enterica	Infantis	1	XLD	Typical	OPUS	Salmonella Infantis	IA	IA
CTS_143	Salmonella	enterica	enterica	Infantis	1	NA	na	CFX	Salmonella Infantis	na	IA



CTS_143	Salmonella	enterica	enterica	Infantis	1	XLD	Typical	CFX	Salmonella Infantis	na	IA
CTS_143	Salmonella	enterica	enterica	Infantis	1	NA	na	OPUS	Salmonella Infantis	na	IA
CTS_143	Salmonella	enterica	enterica	Infantis	1	XLD	Typical	OPUS	Salmonella Infantis	na	IA
CTS_922	Salmonella	enterica	enterica	Isangi	1	NA	na	CFX	Salmonella Isangi	na	IA
CTS_922	Salmonella	enterica	enterica	Isangi	1	XLD	Typical	CFX	Salmonella Isangi	na	IA
CTS_922	Salmonella	enterica	enterica	Isangi	1	NA	na	OPUS	Salmonella Isangi	na	IA
CTS_922	Salmonella	enterica	enterica	Isangi	1	XLD	Typical	OPUS	Salmonella Isangi	na	IA
CTS_600	Salmonella	enterica	enterica	Isangi	1	NA	na	CFX	Salmonella Isangi	na	IA
CTS_600	Salmonella	enterica	enterica	Isangi	1	XLD	Typical	CFX	Salmonella Isangi	na	IA
CTS_600	Salmonella	enterica	enterica	Isangi	1	NA	na	OPUS	Salmonella Isangi	na	IA
CTS_600	Salmonella	enterica	enterica	Isangi	1	XLD	Typical	OPUS	Salmonella Isangi	na	IA
CTS_649	Salmonella	enterica	enterica	Isangi	1	NA	na	CFX	Salmonella Isangi	na	IA
CTS_649	Salmonella	enterica	enterica	Isangi	1	XLD	Typical	CFX	Salmonella Isangi	na	IA
CTS_649	Salmonella	enterica	enterica	Isangi	1	NA	na	OPUS	Salmonella Isangi	na	IA
CTS_649	Salmonella	enterica	enterica	Isangi	1	XLD	Typical	OPUS	Salmonella Isangi	na	IA
CTS_718	Salmonella	enterica	enterica	Isangi	1	NA	na	CFX	Salmonella Isangi	na	IA
CTS_718	Salmonella	enterica	enterica	Isangi	1	XLD	Typical	CFX	Salmonella Isangi	na	IA
CTS_718	Salmonella	enterica	enterica	Isangi	1	NA	na	OPUS	Salmonella Isangi	na	IA
CTS_718	Salmonella	enterica	enterica	Isangi	1	XLD	Typical	OPUS	Salmonella Isangi	na	IA
CTS_735	Salmonella	enterica	enterica	Isangi	1	NA	na	CFX	Salmonella Isangi	na	IA
CTS_735	Salmonella	enterica	enterica	Isangi	1	XLD	Typical	CFX	Salmonella Isangi	na	IA
CTS_735	Salmonella	enterica	enterica	Isangi	1	NA	na	OPUS	Salmonella Isangi	na	IA
CTS_735	Salmonella	enterica	enterica	Isangi	1	XLD	Typical	OPUS	Salmonella Isangi	na	IA
CTS_145	Salmonella	enterica	enterica	Javiana	1	NA	na	CFX	Salmonella Javiana	IA	IA
CTS_145	Salmonella	enterica	enterica	Javiana	1	XLD	Typical	CFX	Salmonella Javiana	IA	IA
CTS_145	Salmonella	enterica	enterica	Javiana	1	NA	na	OPUS	Salmonella Javiana	IA	IA
CTS_145	Salmonella	enterica	enterica	Javiana	1	XLD	Typical	OPUS	Salmonella Javiana	IA	IA
CTS_147	Salmonella	enterica	enterica	Javiana	1	NA	na	CFX	Salmonella Javiana	IA	IA
CTS_147	Salmonella	enterica	enterica	Javiana	1	XLD	Typical	CFX	Salmonella Javiana	IA	IA
CTS_147	Salmonella	enterica	enterica	Javiana	1	NA	na	OPUS	Salmonella Javiana	IA	IA
CTS_147	Salmonella	enterica	enterica	Javiana	1	XLD	Typical	OPUS	Salmonella Javiana	IA	IA
CTS_148	Salmonella	enterica	enterica	Javiana	1	NA	na	CFX	Salmonella positive, Genovar EHYJM1	na	- Repeat test
CTS_148	Salmonella	enterica	enterica	Javiana	2	NA	na	CFX	Salmonella positive, Genovar EHYJM1	na	Inconclusive result CTS_501 added
CTS_148	Salmonella	enterica	enterica	Javiana	1	XLD	Typical	CFX	Salmonella positive, Genovar EHYJM1	na	- Repeat test

CTS_148	Salmonella	enterica	enterica	Javiana	2	XLD	Typical	CFX	Salmonella positive, Genovar EHYJM1	na	Inconclusive result	CTS_501 added
CTS_148	Salmonella	enterica	enterica	Javiana	1	NA	na	OPUS	Salmonella positive, Genovar ESYJM1	na	-	Repeat test
CTS_148	Salmonella	enterica	enterica	Javiana	2	NA	na	OPUS	Salmonella positive, Genovar ESYJM1	na	Inconclusive result	CTS_501 added
CTS_148	Salmonella	enterica	enterica	Javiana	1	XLD	Typical	OPUS	Salmonella positive, Genovar ESYJM1	na	-	Repeat test
CTS_148	Salmonella	enterica	enterica	Javiana	2	XLD	Typical	OPUS	Salmonella positive, Genovar ESYJM1	na	Inconclusive result	CTS_501 added
CTS_501	Salmonella	enterica	enterica	Javiana	1	NA	na	CFX	Salmonella Eastbourne or Javiana	na	IA	A or B
CTS_501	Salmonella	enterica	enterica	Javiana	1	XLD	Typical	CFX	Salmonella Eastbourne or Javiana	na	IA	A or B
CTS_501	Salmonella	enterica	enterica	Javiana	1	NA	na	OPUS	Salmonella Eastbourne or Javiana	na	IA	A or B
CTS_501	Salmonella	enterica	enterica	Javiana	1	XLD	Typical	OPUS	Salmonella Eastbourne or Javiana	na	IA	A or B
CTS_923	Salmonella	enterica	enterica	Javiana	1	NA	na	CFX	Salmonella Javiana	na	IA	
CTS_923	Salmonella	enterica	enterica	Javiana	1	XLD	Typical	CFX	Salmonella Javiana	na	IA	
CTS_923	Salmonella	enterica	enterica	Javiana	1	NA	na	OPUS	Salmonella Javiana	na	IA	
CTS_923	Salmonella	enterica	enterica	Javiana	1	XLD	Typical	OPUS	Salmonella Javiana	na	IA	
CTS_924	Salmonella	enterica	enterica	Javiana	1	NA	na	CFX	Salmonella Javiana	na	IA	
CTS_924	Salmonella	enterica	enterica	Javiana	1	XLD	Typical	CFX	Salmonella Javiana	na	IA	
CTS_924	Salmonella	enterica	enterica	Javiana	1	NA	na	OPUS	Salmonella Javiana	na	IA	
CTS_924	Salmonella	enterica	enterica	Javiana	1	XLD	Typical	OPUS	Salmonella Javiana	na	IA	
CTS_925	Salmonella	enterica	enterica	Jerusalem	1	NA	na	CFX	Salmonella Jerusalem or Muenchen	na	IA	A or B
CTS_925	Salmonella	enterica	enterica	Jerusalem	1	XLD	Typical	CFX	Salmonella Jerusalem or Muenchen	na	IA	A or B
CTS_925	Salmonella	enterica	enterica	Jerusalem	1	NA	na	OPUS	Salmonella Jerusalem or Muenchen	na	IA	A or B
CTS_925	Salmonella	enterica	enterica	Jerusalem	1	XLD	Typical	OPUS	Salmonella Jerusalem or Muenchen	na	IA	A or B
CTS_584	Salmonella	enterica	enterica	Jerusalem	1	NA	na	CFX	Salmonella Jerusalem or Muenchen	na	IA	A or B



CTS_584	Salmonella	enterica	enterica	Jerusalem	1	XLD	Typical	CFX	Salmonella Jerusalem or Muenchen	na	IA	A or B
CTS_584	Salmonella	enterica	enterica	Jerusalem	1	NA	na	OPUS	Salmonella Jerusalem or Muenchen	na	IA	A or B
CTS_584	Salmonella	enterica	enterica	Jerusalem	1	XLD	Typical	OPUS	Salmonella Jerusalem or Muenchen	na	IA	A or B
CTS_688	Salmonella	enterica	enterica	Jerusalem	1	NA	na	CFX	Salmonella Jerusalem or Muenchen	na	IA	A or B
CTS_688	Salmonella	enterica	enterica	Jerusalem	1	XLD	Typical	CFX	Salmonella Jerusalem or Muenchen	na	IA	A or B
CTS_688	Salmonella	enterica	enterica	Jerusalem	1	NA	na	OPUS	Salmonella Jerusalem or Muenchen	na	IA	A or B
CTS_688	Salmonella	enterica	enterica	Jerusalem	1	XLD	Typical	OPUS	Salmonella Jerusalem or Muenchen	na	IA	A or B
CTS_705	Salmonella	enterica	enterica	Jerusalem	1	NA	na	CFX	Salmonella Jerusalem or Muenchen	na	IA	A or B
CTS_705	Salmonella	enterica	enterica	Jerusalem	1	XLD	Typical	CFX	Salmonella Jerusalem or Muenchen	na	IA	A or B
CTS_705	Salmonella	enterica	enterica	Jerusalem	1	NA	na	OPUS	Salmonella Jerusalem or Muenchen	na	IA	A or B
CTS_705	Salmonella	enterica	enterica	Jerusalem	1	XLD	Typical	OPUS	Salmonella Jerusalem or Muenchen	na	IA	A or B
CTS_751	Salmonella	enterica	enterica	Jerusalem	1	NA	na	CFX	Salmonella Jerusalem or Muenchen	na	IA	A or B
CTS_751	Salmonella	enterica	enterica	Jerusalem	1	XLD	Typical	CFX	Salmonella Jerusalem or Muenchen	na	IA	A or B
CTS_751	Salmonella	enterica	enterica	Jerusalem	1	NA	na	OPUS	Salmonella Jerusalem or Muenchen	na	IA	A or B
CTS_751	Salmonella	enterica	enterica	Jerusalem	1	XLD	Typical	OPUS	Salmonella Jerusalem or Muenchen	na	IA	A or B
CTS_1030	Salmonella	enterica	enterica	Jerusalem	1	NA	na	CFX	Salmonella Jerusalem or Muenchen	na	IA	A or B
CTS_1030	Salmonella	enterica	enterica	Jerusalem	1	XLD	Typical	CFX	Salmonella Jerusalem or Muenchen	na	IA	A or B
CTS_1030	Salmonella	enterica	enterica	Jerusalem	1	NA	na	OPUS	Salmonella Jerusalem or Muenchen	na	IA	A or B

CTS_1030	Salmonella	enterica	enterica	Jerusalem	1	XLD	Typical	OPUS	Salmonella Jerusalem or Muenchen	na	IA	A or B
CTS_1031	Salmonella	enterica	enterica	Jerusalem	1	NA	na	CFX	Salmonella Jerusalem or Muenchen	na	IA	A or B
CTS_1031	Salmonella	enterica	enterica	Jerusalem	1	XLD	Typical	CFX	Salmonella Jerusalem or Muenchen	na	IA	A or B
CTS_1031	Salmonella	enterica	enterica	Jerusalem	1	NA	na	OPUS	Salmonella Jerusalem or Muenchen	na	IA	A or B
CTS_1031	Salmonella	enterica	enterica	Jerusalem	1	XLD	Typical	OPUS	Salmonella Jerusalem or Muenchen	na	IA	A or B
CTS_926	Salmonella	enterica	enterica	Johannesburg	1	NA	na	CFX	Salmonella Johannesburg or Urbana	na	IA	A or B
CTS_926	Salmonella	enterica	enterica	Johannesburg	1	XLD	Typical	CFX	Salmonella Johannesburg or Urbana	na	IA	A or B
CTS_926	Salmonella	enterica	enterica	Johannesburg	1	NA	na	OPUS	Salmonella Johannesburg or Urbana	na	IA	A or B
CTS_926	Salmonella	enterica	enterica	Johannesburg	1	XLD	Typical	Opus	Salmonella Johannesburg or Urbana	na	IA	A or B
CTS_586	Salmonella	enterica	enterica	Johannesburg	1	NA	na	CFX	Salmonella Johannesburg or Urbana	na	IA	A or B
CTS_586	Salmonella	enterica	enterica	Johannesburg	1	XLD	Typical	CFX	Salmonella Johannesburg or Urbana	na	IA	A or B
CTS_586	Salmonella	enterica	enterica	Johannesburg	1	NA	na	OPUS	Salmonella Johannesburg or Urbana	na	IA	A or B
CTS_586	Salmonella	enterica	enterica	Johannesburg	1	XLD	Typical	OPUS	Salmonella Johannesburg or Urbana	na	IA	A or B
CTS_657	Salmonella	enterica	enterica	Johannesburg	1	NA	na	CFX	Salmonella Johannesburg or Urbana	na	IA	A or B

CTS_657	Salmonella	enterica	enterica	Johannesburg	1	XLD	Typical	CFX	Salmonella Johannesburg or Urbana	na	IA	A or B
CTS_657	Salmonella	enterica	enterica	Johannesburg	1	NA	na	OPUS	Salmonella Johannesburg or Urbana	na	IA	A or B
CTS_657	Salmonella	enterica	enterica	Johannesburg	1	XLD	Typical	OPUS	Salmonella Johannesburg or Urbana	na	IA	A or B
CTS_927	Salmonella	enterica	enterica	Johannesburg	1	NA	na	CFX	Salmonella Johannesburg	na	IA	
CTS_927	Salmonella	enterica	enterica	Johannesburg	1	XLD	Typical	CFX	Salmonella Johannesburg	na	IA	
CTS_927	Salmonella	enterica	enterica	Johannesburg	1	NA	na	OPUS	Salmonella Johannesburg	na	IA	
CTS_927	Salmonella	enterica	enterica	Johannesburg	1	XLD	Typical	OPUS	Salmonella Johannesburg	na	IA	
CTS_928	Salmonella	enterica	enterica	Johannesburg	1	NA	na	CFX	Salmonella Johannesburg or Urbana	na	IA	A or B
CTS_928	Salmonella	enterica	enterica	Johannesburg	1	XLD	Typical	CFX	Salmonella Johannesburg or Urbana	na	IA	A or B
CTS_928	Salmonella	enterica	enterica	Johannesburg	1	NA	na	OPUS	Salmonella Johannesburg or Urbana	na	IA	A or B
CTS_928	Salmonella	enterica	enterica	Johannesburg	1	XLD	Typical	Opus	Salmonella Johannesburg or Urbana	na	IA	A or B
CTS_929	Salmonella	enterica	enterica	Kapemba	1	NA	na	CFX	Salmonella Kapemba	na	IA	
CTS_929	Salmonella	enterica	enterica	Kapemba	1	XLD	Typical	CFX	Salmonella Kapemba	na	IA	
CTS_929	Salmonella	enterica	enterica	Kapemba	1	NA	na	OPUS	Salmonella Kapemba	na	IA	
CTS_929	Salmonella	enterica	enterica	Kapemba	1	XLD	Typical	OPUS	Salmonella Kapemba	na	IA	
CTS_930	Salmonella	enterica	enterica	Kapemba	1	NA	na	CFX	Salmonella Kapemba	na	IA	
CTS_930	Salmonella	enterica	enterica	Kapemba	1	XLD	Typical	CFX	Salmonella Kapemba	na	IA	
CTS_930	Salmonella	enterica	enterica	Kapemba	1	NA	na	OPUS	Salmonella Kapemba	na	IA	
CTS_930	Salmonella	enterica	enterica	Kapemba	1	XLD	Typical	OPUS	Salmonella Kapemba	na	IA	



CTS_575	Salmonella	enterica	enterica	Kapemba	1	NA	na	CFX	Salmonella Kapemba	na	IA
CTS_575	Salmonella	enterica	enterica	Kapemba	1	XLD	Typical	CFX	Salmonella Kapemba	na	IA
CTS_575	Salmonella	enterica	enterica	Kapemba	1	NA	na	OPUS	Salmonella Kapemba	na	IA
CTS_575	Salmonella	enterica	enterica	Kapemba	1	XLD	Typical	OPUS	Salmonella Kapemba	na	IA
CTS_598	Salmonella	enterica	enterica	Kapemba	1	NA	na	CFX	Salmonella Kapemba	na	IA
CTS_598	Salmonella	enterica	enterica	Kapemba	1	XLD	Typical	CFX	Salmonella Kapemba	na	IA
CTS_598	Salmonella	enterica	enterica	Kapemba	1	NA	na	OPUS	Salmonella Kapemba	na	IA
CTS_598	Salmonella	enterica	enterica	Kapemba	1	XLD	Typical	OPUS	Salmonella Kapemba	na	IA
CTS_652	Salmonella	enterica	enterica	Kapemba	1	NA	na	CFX	Salmonella Kapemba	na	IA
CTS_652	Salmonella	enterica	enterica	Kapemba	1	XLD	Typical	CFX	Salmonella Kapemba	na	IA
CTS_652	Salmonella	enterica	enterica	Kapemba	1	NA	na	OPUS	Salmonella Kapemba	na	IA
CTS_652	Salmonella	enterica	enterica	Kapemba	1	XLD	Typical	OPUS	Salmonella Kapemba	na	IA
CTS_931	Salmonella	enterica	enterica	Kedougou	1	NA	na	CFX	Salmonella Kedougou	na	IA
CTS_931	Salmonella	enterica	enterica	Kedougou	1	XLD	Typical	CFX	Salmonella Kedougou	na	IA
CTS_931	Salmonella	enterica	enterica	Kedougou	1	NA	na	OPUS	Salmonella Kedougou	na	IA
CTS_931	Salmonella	enterica	enterica	Kedougou	1	XLD	Typical	OPUS	Salmonella Kedougou	na	IA
CTS_637	Salmonella	enterica	enterica	Kedougou	1	NA	na	CFX	Salmonella Kedougou	na	IA
CTS_637	Salmonella	enterica	enterica	Kedougou	1	XLD	Typical	CFX	Salmonella Kedougou	na	IA
CTS_637	Salmonella	enterica	enterica	Kedougou	1	NA	na	OPUS	Salmonella Kedougou	na	IA
CTS_637	Salmonella	enterica	enterica	Kedougou	1	XLD	Typical	OPUS	Salmonella Kedougou	na	IA
CTS_646	Salmonella	enterica	enterica	Kedougou	1	NA	na	CFX	Salmonella Kedougou	na	IA
CTS_646	Salmonella	enterica	enterica	Kedougou	1	XLD	Typical	CFX	Salmonella Kedougou	na	IA
CTS_646	Salmonella	enterica	enterica	Kedougou	1	NA	na	OPUS	Salmonella Kedougou	na	IA
CTS_646	Salmonella	enterica	enterica	Kedougou	1	XLD	Typical	OPUS	Salmonella Kedougou	na	IA
CTS_665	Salmonella	enterica	enterica	Kedougou	1	NA	na	CFX	Salmonella Kedougou	na	IA
CTS_665	Salmonella	enterica	enterica	Kedougou	1	XLD	Typical	CFX	Salmonella Kedougou	na	IA
CTS_665	Salmonella	enterica	enterica	Kedougou	1	NA	na	OPUS	Salmonella Kedougou	na	IA
CTS_665	Salmonella	enterica	enterica	Kedougou	1	XLD	Typical	OPUS	Salmonella Kedougou	na	IA
CTS_742	Salmonella	enterica	enterica	Kedougou	1	NA	na	CFX	Salmonella Kedougou	na	IA
CTS_742	Salmonella	enterica	enterica	Kedougou	1	XLD	Typical	CFX	Salmonella Kedougou	na	IA
CTS_742	Salmonella	enterica	enterica	Kedougou	1	NA	na	OPUS	Salmonella Kedougou	na	IA
CTS_742	Salmonella	enterica	enterica	Kedougou	1	XLD	Typical	OPUS	Salmonella Kedougou	na	IA
CTS_153	Salmonella	enterica	enterica	Kentucky	1	NA	na	CFX	Salmonella Kentucky	na	IA
CTS_153	Salmonella	enterica	enterica	Kentucky	1	XLD	Typical	CFX	Salmonella Kentucky	na	IA
CTS_153	Salmonella	enterica	enterica	Kentucky	1	NA	na	OPUS	Salmonella Kentucky	na	IA
CTS_153	Salmonella	enterica	enterica	Kentucky	1	XLD	Typical	OPUS	Salmonella Kentucky	na	IA



CTS_932	Salmonella	enterica	enterica	Kentucky	1	NA	na	CFX	Salmonella Kentucky	IA	IA
CTS_932	Salmonella	enterica	enterica	Kentucky	1	XLD	Typical	CFX	Salmonella Kentucky	IA	IA
CTS_932	Salmonella	enterica	enterica	Kentucky	1	NA	na	OPUS	Salmonella Kentucky	IA	IA
CTS_932	Salmonella	enterica	enterica	Kentucky	1	XLD	Typical	OPUS	Salmonella Kentucky	IA	IA
CTS_933	Salmonella	enterica	enterica	Kentucky	1	NA	na	CFX	Salmonella Kentucky	na	IA
CTS_933	Salmonella	enterica	enterica	Kentucky	1	XLD	Typical	CFX	Salmonella Kentucky	na	IA
CTS_933	Salmonella	enterica	enterica	Kentucky	1	NA	na	OPUS	Salmonella Kentucky	na	IA
CTS_933	Salmonella	enterica	enterica	Kentucky	1	XLD	Typical	OPUS	Salmonella Kentucky	na	IA
CTS_934	Salmonella	enterica	enterica	Kentucky	1	NA	na	CFX	Reaction not OK	na	- Repeat
CTS_934	Salmonella	enterica	enterica	Kentucky	2	NA	na	CFX	Salmonella Kentucky	na	IA
CTS_934	Salmonella	enterica	enterica	Kentucky	1	XLD	Typical	CFX	Salmonella Kentucky	na	IA
CTS_934	Salmonella	enterica	enterica	Kentucky	1	NA	na	OPUS	Salmonella Kentucky	na	IA
CTS_934	Salmonella	enterica	enterica	Kentucky	1	XLD	Typical	OPUS	Salmonella Kentucky	na	IA
CTS_935	Salmonella	enterica	enterica	Kentucky	1	NA	na	CFX	Salmonella Kentucky	IA	IA
CTS_935	Salmonella	enterica	enterica	Kentucky	1	XLD	Typical	CFX	Salmonella Kentucky	IA	IA
CTS_935	Salmonella	enterica	enterica	Kentucky	1	NA	na	OPUS	Salmonella Kentucky	IA	IA
CTS_935	Salmonella	enterica	enterica	Kentucky	1	XLD	Typical	OPUS	Salmonella Kentucky	IA	IA
CTS_936	Salmonella	enterica	enterica	Kiambu	1	NA	na	CFX	Salmonella Kiambu	na	IA
CTS_936	Salmonella	enterica	enterica	Kiambu	1	XLD	Typical	CFX	Salmonella Kiambu	na	IA
CTS_936	Salmonella	enterica	enterica	Kiambu	1	NA	na	OPUS	Salmonella Kiambu	na	IA
CTS_936	Salmonella	enterica	enterica	Kiambu	1	XLD	Typical	OPUS	Salmonella Kiambu	na	IA
CTS_585	Salmonella	enterica	enterica	Kiambu	1	NA	na	CFX	Salmonella Kiambu	na	IA
CTS_585	Salmonella	enterica	enterica	Kiambu	1	XLD	Typical	CFX	Salmonella Kiambu	na	IA
CTS_585	Salmonella	enterica	enterica	Kiambu	1	NA	na	OPUS	Salmonella Kiambu	na	IA
CTS_585	Salmonella	enterica	enterica	Kiambu	1	XLD	Typical	OPUS	Salmonella Kiambu	na	IA
CTS_618	Salmonella	enterica	enterica	Kiambu	1	NA	na	CFX	Salmonella Kiambu	na	IA
CTS_618	Salmonella	enterica	enterica	Kiambu	1	XLD	Typical	CFX	Salmonella Kiambu	na	IA
CTS_618	Salmonella	enterica	enterica	Kiambu	1	NA	na	OPUS	Salmonella Kiambu	na	IA
CTS_618	Salmonella	enterica	enterica	Kiambu	1	XLD	Typical	OPUS	Salmonella Kiambu	na	IA
CTS_745	Salmonella	enterica	enterica	Kiambu	1	NA	na	CFX	Salmonella Kiambu	na	IA
CTS_745	Salmonella	enterica	enterica	Kiambu	1	XLD	Typical	CFX	Salmonella Kiambu	na	IA
CTS_745	Salmonella	enterica	enterica	Kiambu	1	NA	na	OPUS	Salmonella Kiambu	na	IA
CTS_745	Salmonella	enterica	enterica	Kiambu	1	XLD	Typical	OPUS	Salmonella Kiambu	na	IA
CTS_779	Salmonella	enterica	enterica	Kiambu	1	NA	na	CFX	Salmonella Kiambu	na	IA
CTS_779	Salmonella	enterica	enterica	Kiambu	1	XLD	Typical	CFX	Salmonella Kiambu	na	IA
CTS_779	Salmonella	enterica	enterica	Kiambu	1	NA	na	OPUS	Salmonella Kiambu	na	IA

CTS_779	Salmonella	enterica	enterica	Kiambu	1	XLD	Typical	OPUS	Salmonella Kiambu	na	IA
CTS_937	Salmonella	enterica	enterica	Kingston	1	NA	na	CFX	Salmonella Kingston	na	IA
CTS_937	Salmonella	enterica	enterica	Kingston	1	XLD	Typical	CFX	Salmonella Kingston	na	IA
CTS_937	Salmonella	enterica	enterica	Kingston	1	NA	na	OPUS	Salmonella Kingston	na	IA
CTS_937	Salmonella	enterica	enterica	Kingston	1	XLD	Typical	OPUS	Salmonella Kingston	na	IA
CTS_938	Salmonella	enterica	enterica	Kingston	1	NA	na	CFX	Salmonella Kingston	na	IA
CTS_938	Salmonella	enterica	enterica	Kingston	1	XLD	Typical	CFX	Salmonella Kingston	na	IA
CTS_938	Salmonella	enterica	enterica	Kingston	1	NA	na	OPUS	Salmonella Kingston	na	IA
CTS_938	Salmonella	enterica	enterica	Kingston	1	XLD	Typical	OPUS	Salmonella Kingston	na	IA
CTS_641	Salmonella	enterica	enterica	Kingston	1	NA	na	CFX	Salmonella Kingston	na	IA
CTS_641	Salmonella	enterica	enterica	Kingston	1	XLD	Typical	CFX	Salmonella Kingston	na	IA
CTS_641	Salmonella	enterica	enterica	Kingston	1	NA	na	OPUS	Salmonella Kingston	na	IA
CTS_641	Salmonella	enterica	enterica	Kingston	1	XLD	Typical	OPUS	Salmonella Kingston	na	IA
CTS_795	Salmonella	enterica	enterica	Kingston	1	NA	na	CFX	Salmonella Kingston	na	IA
CTS_795	Salmonella	enterica	enterica	Kingston	1	XLD	Typical	CFX	Salmonella Kingston	na	IA
CTS_795	Salmonella	enterica	enterica	Kingston	1	NA	na	OPUS	Salmonella Kingston	na	IA
CTS_795	Salmonella	enterica	enterica	Kingston	1	XLD	Typical	OPUS	Salmonella Kingston	na	IA
CTS_939	Salmonella	enterica	enterica	Kingston	1	NA	na	CFX	Salmonella Kingston	na	IA
CTS_939	Salmonella	enterica	enterica	Kingston	1	XLD	Typical	CFX	Salmonella Kingston	na	IA
CTS_939	Salmonella	enterica	enterica	Kingston	1	NA	na	OPUS	Salmonella Kingston	na	IA
CTS_939	Salmonella	enterica	enterica	Kingston	1	XLD	Typical	OPUS	Salmonella Agona or Salmonella Kingston	na	IA A or B
CTS_940	Salmonella	enterica	enterica	Kottbus	1	NA		CFX	Salmonella Chailey or Kottbus	na	IA A or B
CTS_940	Salmonella	enterica	enterica	Kottbus	1	XLD	Typical	CFX	Salmonella Chailey or Kottbus	na	IA A or B
CTS_940	Salmonella	enterica	enterica	Kottbus	1	NA		OPUS	Salmonella Chailey or Kottbus	na	IA A or B
CTS_940	Salmonella	enterica	enterica	Kottbus	1	XLD	Typical	OPUS	Salmonella Chailey or Kottbus	na	IA A or B
CTS_941	Salmonella	enterica	enterica	Kottbus	1	NA		CFX	Salmonella Chailey or Kottbus	na	IA A or B
CTS_941	Salmonella	enterica	enterica	Kottbus	1	XLD	Typical	CFX	Salmonella Chailey or Kottbus	na	IA A or B
CTS_941	Salmonella	enterica	enterica	Kottbus	1	NA		OPUS	Salmonella Chailey or Kottbus	na	IA A or B

CTS_941	Salmonella	enterica	enterica	Kottbus	1	XLD	Typical	OPUS	Salmonella Chailey or Kottbus	na	IA	A or B
CTS_601	Salmonella	enterica	enterica	Kottbus	1	NA	na	CFX	Salmonella Chailey or Kottbus	na	IA	A or B
CTS_601	Salmonella	enterica	enterica	Kottbus	1	XLD	Typical	CFX	Salmonella Chailey or Kottbus	na	IA	A or B
CTS_601	Salmonella	enterica	enterica	Kottbus	1	NA	na	OPUS	Salmonella Chailey or Kottbus	na	IA	A or B
CTS_601	Salmonella	enterica	enterica	Kottbus	1	XLD	Typical	OPUS	Salmonella Chailey or Kottbus	na	IA	A or B
CTS_715	Salmonella	enterica	enterica	Kottbus	1	NA	na	CFX	Salmonella Kottbus	na	IA	
CTS_715	Salmonella	enterica	enterica	Kottbus	1	XLD	Typical	CFX	Salmonella Kottbus	na	IA	
CTS_715	Salmonella	enterica	enterica	Kottbus	1	NA	na	OPUS	Salmonella Kottbus	na	IA	
CTS_715	Salmonella	enterica	enterica	Kottbus	1	XLD	Typical	OPUS	Salmonella Kottbus	na	IA	
CTS_793	Salmonella	enterica	enterica	Kottbus	1	NA	na	CFX	Salmonella Kottbus	na	IA	
CTS_793	Salmonella	enterica	enterica	Kottbus	1	XLD	Typical	CFX	Salmonella Kottbus	na	IA	
CTS_793	Salmonella	enterica	enterica	Kottbus	1	NA	na	OPUS	Salmonella Kottbus	na	IA	
CTS_793	Salmonella	enterica	enterica	Kottbus	1	XLD	Typical	OPUS	Salmonella Kottbus	na	IA	
CTS_942	Salmonella	enterica	enterica	Kottbus	1	NA	na	CFX	Salmonella Chailey or Kottbus	na	IA	A or B
CTS_942	Salmonella	enterica	enterica	Kottbus	1	XLD	Typical	CFX	Salmonella Chailey or Kottbus	na	IA	A or B
CTS_942	Salmonella	enterica	enterica	Kottbus	1	NA	na	OPUS	Salmonella Chailey or Kottbus	na	IA	A or B
CTS_942	Salmonella	enterica	enterica	Kottbus	1	XLD	Typical	OPUS	Salmonella Chailey or Kottbus	na	IA	A or B
CTS_943	Salmonella	enterica	enterica	Lexington	1	NA	na	CFX	Salmonella Lexington	na	IA	
CTS_943	Salmonella	enterica	enterica	Lexington	1	XLD	Typical	CFX	Salmonella Lexington	na	IA	
CTS_943	Salmonella	enterica	enterica	Lexington	1	NA	na	OPUS	Salmonella Lexington	na	IA	
CTS_943	Salmonella	enterica	enterica	Lexington	1	XLD	Typical	OPUS	Salmonella Lexington	na	IA	
CTS_944	Salmonella	enterica	enterica	Lexington	1	NA	na	CFX	Salmonella positive, Genovar WSGKP1	na	Inconclusive result	CTS_945 added
CTS_944	Salmonella	enterica	enterica	Lexington	1	XLD	Typical	CFX	Salmonella positive, Genovar WSGKP1	na	Inconclusive result	CTS_945 added
CTS_944	Salmonella	enterica	enterica	Lexington	1	NA	na	OPUS	Salmonella positive, Genovar WSGKP1	na	Inconclusive result	CTS_945 added

CTS_944	Salmonella	enterica	enterica	Lexington	1	XLD	Typical	OPUS	Salmonella positive, Genovar WSGKP1	na	Inconclusive result	CTS_945 added
CTS_620	Salmonella	enterica	enterica	Lexington	1	NA	na	CFX	Salmonella Lexington	na	IA	
CTS_620	Salmonella	enterica	enterica	Lexington	1	XLD	Typical	CFX	Salmonella Lexington	na	IA	
CTS_620	Salmonella	enterica	enterica	Lexington	1	NA	na	OPUS	Salmonella Lexington	na	IA	
CTS_620	Salmonella	enterica	enterica	Lexington	1	XLD	Typical	OPUS	Salmonella Lexington	na	IA	
CTS_725	Salmonella	enterica	enterica	Lexington	1	NA	na	CFX	Salmonella positive, Genovar CHJKP1	na	-	Repeat test
CTS_725	Salmonella	enterica	enterica	Lexington	2	NA	na	CFX	Salmonella Lexington	na	IA	
CTS_725	Salmonella	enterica	enterica	Lexington	1	XLD	Typical	CFX	Salmonella Lexington	na	IA	
CTS_725	Salmonella	enterica	enterica	Lexington	1	NA	na	OPUS	Salmonella Lexington	na	IA	
CTS_725	Salmonella	enterica	enterica	Lexington	1	XLD	Typical	OPUS	Salmonella Lexington	na	IA	
CTS_781	Salmonella	enterica	enterica	Lexington	1	NA	na	CFX	Salmonella Lexington	na	IA	
CTS_781	Salmonella	enterica	enterica	Lexington	1	XLD	Typical	CFX	Salmonella Lexington	na	IA	
CTS_781	Salmonella	enterica	enterica	Lexington	1	NA	na	OPUS	Salmonella Lexington	na	IA	
CTS_781	Salmonella	enterica	enterica	Lexington	1	XLD	Typical	OPUS	Salmonella Lexington	na	IA	
CTS_945	Salmonella	enterica	enterica	Lexington	1	NA	na	CFX	Salmonella Lexington	na	IA	
CTS_945	Salmonella	enterica	enterica	Lexington	1	XLD	Typical	CFX	Salmonella Lexington	na	IA	
CTS_945	Salmonella	enterica	enterica	Lexington	1	NA	na	OPUS	Salmonella Lexington	na	IA	
CTS_945	Salmonella	enterica	enterica	Lexington	1	XLD	Typical	OPUS	Salmonella Lexington	na	IA	
CTS_697	Salmonella	enterica	enterica	Litchfield	1	NA	na	CFX	Salmonella Litchfield	na	IA	
CTS_697	Salmonella	enterica	enterica	Litchfield	1	XLD	Typical	CFX	Salmonella Litchfield	na	IA	
CTS_697	Salmonella	enterica	enterica	Litchfield	1	NA	na	OPUS	Salmonella Litchfield	na	IA	
CTS_697	Salmonella	enterica	enterica	Litchfield	1	XLD	Typical	OPUS	Salmonella Litchfield	na	IA	
CTS_732	Salmonella	enterica	enterica	Litchfield	1	NA	na	CFX	Salmonella Litchfield	na	IA	
CTS_732	Salmonella	enterica	enterica	Litchfield	1	XLD	Typical	CFX	Salmonella Litchfield	na	IA	
CTS_732	Salmonella	enterica	enterica	Litchfield	1	NA	na	OPUS	Salmonella Litchfield	na	IA	
CTS_732	Salmonella	enterica	enterica	Litchfield	1	XLD	Typical	OPUS	Salmonella Litchfield	na	IA	
CTS_743	Salmonella	enterica	enterica	Litchfield	1	NA	na	CFX	Salmonella Litchfield	na	IA	
CTS_743	Salmonella	enterica	enterica	Litchfield	1	XLD	Typical	CFX	Salmonella Litchfield	na	IA	
CTS_743	Salmonella	enterica	enterica	Litchfield	1	NA	na	OPUS	Salmonella Litchfield	na	IA	
CTS_743	Salmonella	enterica	enterica	Litchfield	1	XLD	Typical	OPUS	Salmonella Litchfield	na	IA	
CTS_796	Salmonella	enterica	enterica	Litchfield	1	NA	na	CFX	Salmonella Litchfield	na	IA	
CTS_796	Salmonella	enterica	enterica	Litchfield	1	XLD	Typical	CFX	Salmonella Litchfield	na	IA	
CTS_796	Salmonella	enterica	enterica	Litchfield	1	NA	na	OPUS	Salmonella Litchfield	na	IA	
CTS_796	Salmonella	enterica	enterica	Litchfield	1	XLD	Typical	OPUS	Salmonella Litchfield	na	IA	
CTS_946	Salmonella	enterica	enterica	Litchfield	1	NA	na	CFX	Salmonella Litchfield	na	IA	

CTS_946	Salmonella	enterica	enterica	Litchfield	1	XLD	Typical	CFX	Salmonella Litchfield	na	IA
CTS_946	Salmonella	enterica	enterica	Litchfield	1	NA	na	OPUS	Salmonella Litchfield	na	IA
CTS_946	Salmonella	enterica	enterica	Litchfield	1	XLD	Typical	OPUS	Salmonella Litchfield	na	IA
CTS_947	Salmonella	enterica	enterica	Liverpool	1	NA	na	CFX	Salmonella Liverpool	na	IA
CTS_947	Salmonella	enterica	enterica	Liverpool	1	XLD	Typical	CFX	Salmonella Liverpool	na	IA
CTS_947	Salmonella	enterica	enterica	Liverpool	1	NA	na	OPUS	Salmonella Liverpool	na	IA
CTS_947	Salmonella	enterica	enterica	Liverpool	1	XLD	Typical	OPUS	Salmonella Liverpool	na	IA
CTS_595	Salmonella	enterica	enterica	Liverpool	1	NA	na	CFX	Salmonella positive, Genovar WNRAY1	na	- Repeat test
CTS_595	Salmonella	enterica	enterica	Liverpool	2	NA	na	CFX	Salmonella Liverpool	na	IA
CTS_595	Salmonella	enterica	enterica	Liverpool	1	XLD	Typical	CFX	Salmonella Liverpool	na	IA
CTS_595	Salmonella	enterica	enterica	Liverpool	1	NA	na	OPUS	Salmonella Liverpool	na	IA
CTS_595	Salmonella	enterica	enterica	Liverpool	1	XLD	Typical	OPUS	Salmonella Liverpool	na	IA
CTS_607	Salmonella	enterica	enterica	Liverpool	1	NA	na	CFX	Salmonella Liverpool	na	IA
CTS_607	Salmonella	enterica	enterica	Liverpool	1	XLD	Typical	CFX	Salmonella Liverpool	na	IA
CTS_607	Salmonella	enterica	enterica	Liverpool	1	NA	na	OPUS	Salmonella Liverpool	na	IA
CTS_607	Salmonella	enterica	enterica	Liverpool	1	XLD	Typical	OPUS	Salmonella Liverpool	na	IA
CTS_744	Salmonella	enterica	enterica	Liverpool	1	NA	na	CFX	Salmonella Liverpool	na	IA
CTS_744	Salmonella	enterica	enterica	Liverpool	1	XLD	Typical	CFX	Salmonella Liverpool	na	IA
CTS_744	Salmonella	enterica	enterica	Liverpool	1	NA	na	OPUS	Salmonella Liverpool	na	IA
CTS_744	Salmonella	enterica	enterica	Liverpool	1	XLD	Typical	OPUS	Salmonella Liverpool	na	IA
CTS_948	Salmonella	enterica	enterica	Liverpool	1	NA	na	CFX	Salmonella Liverpool	na	IA
CTS_948	Salmonella	enterica	enterica	Liverpool	1	XLD	Typical	CFX	Salmonella Liverpool	na	IA
CTS_948	Salmonella	enterica	enterica	Liverpool	1	NA	na	OPUS	Salmonella Liverpool	na	IA
CTS_948	Salmonella	enterica	enterica	Liverpool	1	XLD	Typical	OPUS	Salmonella Liverpool	na	IA
CTS_949	Salmonella	enterica	enterica	Livingstone	1	NA	na	CFX	Salmonella Livingstone	IA	IA
CTS_949	Salmonella	enterica	enterica	Livingstone	1	XLD	Typical	CFX	Salmonella Livingstone	IA	IA
CTS_949	Salmonella	enterica	enterica	Livingstone	1	NA	na	OPUS	Salmonella Livingstone	IA	IA
CTS_949	Salmonella	enterica	enterica	Livingstone	1	XLD	Typical	OPUS	Salmonella Livingstone	IA	IA
CTS_950	Salmonella	enterica	enterica	Livingstone	1	NA	na	CFX	Salmonella Livingstone	na	IA
CTS_950	Salmonella	enterica	enterica	Livingstone	1	XLD	Typical	CFX	Salmonella Livingstone	na	IA

CTS_950	Salmonella	enterica	enterica	Livingstone	1	NA	na	OPUS	Salmonella Livingstone	na	IA
CTS_950	Salmonella	enterica	enterica	Livingstone	1	XLD	Typical	OPUS	Salmonella Livingstone	na	IA
CTS_951	Salmonella	enterica	enterica	Livingstone	1	NA	na	CFX	Salmonella Livingstone	na	IA
CTS_951	Salmonella	enterica	enterica	Livingstone	1	XLD	Typical	CFX	Salmonella Livingstone	na	IA
CTS_951	Salmonella	enterica	enterica	Livingstone	1	NA	na	OPUS	Salmonella Livingstone	na	IA
CTS_951	Salmonella	enterica	enterica	Livingstone	1	XLD	Typical	OPUS	Salmonella Livingstone	na	IA
CTS_160	Salmonella	enterica	enterica	Livingstone	1	NA	na	CFX	Salmonella Livingstone	IA	IA
CTS_160	Salmonella	enterica	enterica	Livingstone	1	XLD	Typical	CFX	Salmonella Livingstone	IA	IA
CTS_160	Salmonella	enterica	enterica	Livingstone	1	NA	na	OPUS	Salmonella Livingstone	IA	IA
CTS_160	Salmonella	enterica	enterica	Livingstone	1	XLD	Typical	OPUS	Salmonella Livingstone	IA	IA
CTS_162	Salmonella	enterica	enterica	Livingstone	1	NA	na	CFX	Salmonella Livingstone	na	IA
CTS_162	Salmonella	enterica	enterica	Livingstone	1	XLD	Typical	CFX	Salmonella Livingstone	na	IA
CTS_162	Salmonella	enterica	enterica	Livingstone	1	NA	na	OPUS	Salmonella Livingstone	na	IA
CTS_162	Salmonella	enterica	enterica	Livingstone	1	XLD	Typical	OPUS	Salmonella Livingstone	na	IA
CTS_952	Salmonella	enterica	enterica	Llandoff	1	NA	na	CFX	Salmonella Llandoff or Oranienburg	na	IA A or B
CTS_952	Salmonella	enterica	enterica	Llandoff	1	XLD	Typical	CFX	Salmonella Llandoff or Oranienburg	na	IA A or B
CTS_952	Salmonella	enterica	enterica	Llandoff	1	NA	na	OPUS	Salmonella Llandoff or Oranienburg	na	IA A or B
CTS_952	Salmonella	enterica	enterica	Llandoff	1	XLD	Typical	OPUS	Salmonella Llandoff or Oranienburg	na	IA A or B
CTS_953	Salmonella	enterica	enterica	Llandoff	1	NA	na	CFX	Salmonella Llandoff	na	IA



CTS_953	Salmonella	enterica	enterica	Llandoff	1	XLD	Typical	CFX	Salmonella Llandoff	na	IA	
CTS_953	Salmonella	enterica	enterica	Llandoff	1	NA	na	OPUS	Salmonella Llandoff	na	IA	
CTS_953	Salmonella	enterica	enterica	Llandoff	1	XLD	Typical	OPUS	Salmonella Llandoff	na	IA	
CTS_954	Salmonella	enterica	enterica	llandoff	1	NA	na	CFX	Salmonella Llandoff or Oranienburg	na	IA	A or B
CTS_954	Salmonella	enterica	enterica	llandoff	1	XLD	Typical	CFX	Salmonella Llandoff or Oranienburg	na	IA	A or B
CTS_954	Salmonella	enterica	enterica	llandoff	1	NA	na	OPUS	Salmonella Offa	na	ID	
CTS_954	Salmonella	enterica	enterica	llandoff	1	XLD	Typical	OPUS	Salmonella Llandoff or Oranienburg	na	IA	A or B
CTS_774	Salmonella	enterica	enterica	Llandoff	1	NA	na	CFX	Salmonella Cubana or Llandoff	na	IA	A or B
CTS_774	Salmonella	enterica	enterica	Llandoff	1	XLD	Typical	CFX	Salmonella Cubana or Llandoff	na	IA	A or B
CTS_774	Salmonella	enterica	enterica	Llandoff	1	NA	na	OPUS	Salmonella Cubana or Llandoff	na	IA	A or B
CTS_774	Salmonella	enterica	enterica	Llandoff	1	XLD	Typical	OPUS	Salmonella Cubana or Llandoff	na	IA	A or B
CTS_778	Salmonella	enterica	enterica	Llandoff	1	NA	na	CFX	Salmonella Llandoff	na	IA	
CTS_778	Salmonella	enterica	enterica	Llandoff	1	XLD	Typical	CFX	Salmonella Llandoff	na	IA	
CTS_778	Salmonella	enterica	enterica	Llandoff	1	NA	na	OPUS	Salmonella Llandoff	na	IA	
CTS_778	Salmonella	enterica	enterica	Llandoff	1	XLD	Typical	OPUS	Salmonella Llandoff	na	IA	
CTS_955	Salmonella	enterica	enterica	Llandoff	1	NA	na	CFX	Salmonella Llandoff or Oranienburg	na	IA	A or B
CTS_955	Salmonella	enterica	enterica	Llandoff	1	XLD	Typical	CFX	Salmonella Llandoff or Oranienburg	na	IA	A or B
CTS_955	Salmonella	enterica	enterica	Llandoff	1	NA	na	OPUS	Salmonella Llandoff or Oranienburg	na	IA	A or B
CTS_955	Salmonella	enterica	enterica	Llandoff	1	XLD	Typical	OPUS	Salmonella Llandoff or Oranienburg	na	IA	A or B
CTS_956	Salmonella	enterica	enterica	London	1	NA	na	CFX	Salmonella London	na	IA	
CTS_956	Salmonella	enterica	enterica	London	1	XLD	Typical	CFX	Salmonella positive, Genovar CXRB1	na	-	Repeat
CTS_956	Salmonella	enterica	enterica	London	2	XLD	Typical	CFX	Salmonella London	na	IA	
CTS_956	Salmonella	enterica	enterica	London	1	NA	na	OPUS	Salmonella London	na	IA	
CTS_956	Salmonella	enterica	enterica	London	1	XLD	Typical	OPUS	Salmonella London	na	IA	
CTS_165	Salmonella	enterica	enterica	London	1	NA	na	CFX	Salmonella London	IA	IA	

CTS_165	Salmonella	enterica	enterica	London	1	XLD	Typical	CFX	Salmonella London	IA	IA
CTS_165	Salmonella	enterica	enterica	London	1	NA	na	OPUS	Salmonella London	IA	IA
CTS_165	Salmonella	enterica	enterica	London	1	XLD	Typical	OPUS	Salmonella London	IA	IA
CTS_166	Salmonella	enterica	enterica	London	1	NA	na	CFX	Salmonella London	IA	IA
CTS_166	Salmonella	enterica	enterica	London	1	XLD	Typical	CFX	Salmonella London	IA	IA
CTS_166	Salmonella	enterica	enterica	London	1	NA	na	OPUS	Salmonella London	IA	IA
CTS_166	Salmonella	enterica	enterica	London	1	XLD	Typical	OPUS	Salmonella London	IA	IA
CTS_167	Salmonella	enterica	enterica	London	1	NA	na	CFX	Salmonella London	na	IA
CTS_167	Salmonella	enterica	enterica	London	1	XLD	Typical	CFX	Salmonella London	na	IA
CTS_167	Salmonella	enterica	enterica	London	1	NA	na	OPUS	Salmonella London	na	IA
CTS_167	Salmonella	enterica	enterica	London	1	XLD	Typical	OPUS	Salmonella London	na	IA
CTS_168	Salmonella	enterica	enterica	London	1	NA	na	CFX	Salmonella London	na	IA
CTS_168	Salmonella	enterica	enterica	London	1	XLD	Typical	CFX	Salmonella London	na	IA
CTS_168	Salmonella	enterica	enterica	London	1	NA	na	OPUS	Salmonella London	na	IA
CTS_168	Salmonella	enterica	enterica	London	1	XLD	Typical	OPUS	Salmonella London	na	IA
CTS_957	Salmonella	enterica	enterica	Manhattan	1	NA	na	CFX	Salmonella Positive, inconclusive typing result	na	- Repeat test
CTS_957	Salmonella	enterica	enterica	Manhattan	2	NA	na	CFX	Salmonella Manhattan	na	IA
CTS_957	Salmonella	enterica	enterica	Manhattan	1	XLD	Typical	CFX	Salmonella Manhattan	na	IA
CTS_957	Salmonella	enterica	enterica	Manhattan	1	NA	na	OPUS	Salmonella positive, Genovar YWYTT1	na	- Repeat test
CTS_957	Salmonella	enterica	enterica	Manhattan	2	NA	na	OPUS	Salmonella Manhattan	na	IA
CTS_957	Salmonella	enterica	enterica	Manhattan	1	XLD	Typical	OPUS	Salmonella Manhattan	na	IA
CTS_956	Salmonella	enterica	enterica	Manhattan	1	NA	na	CFX	Salmonella Manhattan	na	IA
CTS_956	Salmonella	enterica	enterica	Manhattan	1	XLD	Typical	CFX	Salmonella Manhattan	na	IA
CTS_956	Salmonella	enterica	enterica	Manhattan	1	NA	na	OPUS	Salmonella Manhattan	na	IA
CTS_956	Salmonella	enterica	enterica	Manhattan	1	XLD	Typical	OPUS	Salmonella Manhattan	na	IA

CTS_647	Salmonella	enterica	enterica	Manhattan	1	NA	na	CFX	Salmonella Manhattan	na	IA
CTS_647	Salmonella	enterica	enterica	Manhattan	1	XLD	Typical	CFX	Salmonella Manhattan	na	IA
CTS_647	Salmonella	enterica	enterica	Manhattan	1	NA	na	OPUS	Salmonella Manhattan	na	IA
CTS_647	Salmonella	enterica	enterica	Manhattan	1	XLD	Typical	OPUS	Salmonella Manhattan	na	IA
CTS_683	Salmonella	enterica	enterica	Manhattan	1	NA	na	CFX	Salmonella Manhattan	na	IA
CTS_683	Salmonella	enterica	enterica	Manhattan	1	XLD	Typical	CFX	Salmonella Manhattan	na	IA
CTS_683	Salmonella	enterica	enterica	Manhattan	1	NA	na	OPUS	Salmonella Manhattan	na	IA
CTS_683	Salmonella	enterica	enterica	Manhattan	1	XLD	Typical	OPUS	Salmonella Manhattan	na	IA
CTS_702	Salmonella	enterica	enterica	Manhattan	1	NA	na	CFX	Salmonella Manhattan	na	IA
CTS_702	Salmonella	enterica	enterica	Manhattan	1	XLD	Typical	CFX	Salmonella Manhattan	na	IA
CTS_702	Salmonella	enterica	enterica	Manhattan	1	NA	na	OPUS	Salmonella Manhattan	na	IA
CTS_702	Salmonella	enterica	enterica	Manhattan	1	XLD	Typical	OPUS	Salmonella Manhattan	na	IA
CTS_957	Salmonella	enterica	enterica	Mbandaka	1	NA	na	CFX	Salmonella Mbandaka	IA	IA
CTS_957	Salmonella	enterica	enterica	Mbandaka	1	XLD	Typical	CFX	Salmonella Mbandaka	IA	IA
CTS_957	Salmonella	enterica	enterica	Mbandaka	1	NA	na	OPUS	Salmonella Mbandaka	IA	IA
CTS_957	Salmonella	enterica	enterica	Mbandaka	1	XLD	Typical	OPUS	Salmonella Mbandaka	IA	IA
CTS_170	Salmonella	enterica	enterica	Mbandaka	1	NA	na	CFX	Salmonella Mbandaka	IA	IA
CTS_170	Salmonella	enterica	enterica	Mbandaka	1	XLD	Typical	CFX	Salmonella Mbandaka	IA	IA
CTS_170	Salmonella	enterica	enterica	Mbandaka	1	NA	na	OPUS	Salmonella Mbandaka	IA	IA
CTS_170	Salmonella	enterica	enterica	Mbandaka	1	XLD	Typical	OPUS	Salmonella Mbandaka	IA	IA
CTS_171	Salmonella	enterica	enterica	Mbandaka	1	NA	na	CFX	Salmonella Mbandaka	na	IA
CTS_171	Salmonella	enterica	enterica	Mbandaka	1	XLD	Typical	CFX	Salmonella Mbandaka	na	IA
CTS_171	Salmonella	enterica	enterica	Mbandaka	1	NA	na	OPUS	Salmonella Mbandaka	na	IA
CTS_171	Salmonella	enterica	enterica	Mbandaka	1	XLD	Typical	OPUS	Salmonella Mbandaka	na	IA
CTS_172	Salmonella	enterica	enterica	Mbandaka	1	NA	na	CFX	Salmonella Mbandaka	na	IA

CTS_172	Salmonella	enterica	enterica	Mbandaka	1	XLD	Typical	CFX	Salmonella Mbandaka	na	IA
CTS_172	Salmonella	enterica	enterica	Mbandaka	1	NA	na	OPUS	Salmonella Mbandaka	na	IA
CTS_172	Salmonella	enterica	enterica	Mbandaka	1	XLD	Typical	OPUS	Salmonella Mbandaka	na	IA
CTS_173	Salmonella	enterica	enterica	Mbandaka	1	NA	na	CFX	Salmonella Mbandaka	na	IA
CTS_173	Salmonella	enterica	enterica	Mbandaka	1	XLD	Typical	CFX	Salmonella Mbandaka	na	IA
CTS_173	Salmonella	enterica	enterica	Mbandaka	1	NA	na	OPUS	Salmonella Mbandaka	na	IA
CTS_173	Salmonella	enterica	enterica	Mbandaka	1	XLD	Typical	OPUS	Salmonella Mbandaka	na	IA
CTS_958	Salmonella	enterica	enterica	Mbandaka	1	NA	na	CFX	Salmonella Mbandaka	na	IA
CTS_958	Salmonella	enterica	enterica	Mbandaka	1	XLD	Typical	CFX	Salmonella positive, Genovar WXSPM1	na	- Repeat
CTS_958	Salmonella	enterica	enterica	Mbandaka	2	XLD	Typical	CFX	Salmonella Mbandaka	na	IA
CTS_958	Salmonella	enterica	enterica	Mbandaka	1	NA	na	OPUS	Salmonella Mbandaka	na	IA
CTS_958	Salmonella	enterica	enterica	Mbandaka	1	XLD	Typical	OPUS	Salmonella Mbandaka	na	IA
CTS_959	Salmonella	enterica	enterica	Meleagridis	1	NA	na	CFX	Salmonella Meleagridis	na	IA
CTS_959	Salmonella	enterica	enterica	Meleagridis	1	XLD	Typical	CFX	Salmonella Meleagridis	na	IA
CTS_959	Salmonella	enterica	enterica	Meleagridis	1	NA	na	OPUS	Salmonella Meleagridis	na	IA
CTS_960	Salmonella	enterica	enterica	Meleagridis	1	NA	Typical	CFX	Salmonella Meleagridis	na	IA
CTS_960	Salmonella	enterica	enterica	Meleagridis	1	XLD	Typical	CFX	Salmonella Meleagridis	na	IA
CTS_960	Salmonella	enterica	enterica	Meleagridis	1	NA	Typical	OPUS	Salmonella Meleagridis	na	IA
CTS_960	Salmonella	enterica	enterica	Meleagridis	1	XLD	Typical	OPUS	Salmonella Meleagridis	na	IA
CTS_613	Salmonella	enterica	enterica	Meleagridis	1	NA	na	CFX	Salmonella Meleagridis	na	IA
CTS_613	Salmonella	enterica	enterica	Meleagridis	1	XLD	Typical	CFX	Salmonella Meleagridis	na	IA
CTS_613	Salmonella	enterica	enterica	Meleagridis	1	NA	na	OPUS	Salmonella Meleagridis	na	IA
CTS_613	Salmonella	enterica	enterica	Meleagridis	1	XLD	Typical	OPUS	Salmonella Meleagridis	na	IA
CTS_673	Salmonella	enterica	enterica	Meleagridis	1	NA	na	CFX	Salmonella Meleagridis	na	IA



CTS_673	Salmonella	enterica	enterica	Meleagridis	1	XLD	Typical	CFX	Salmonella Meleagridis	na	IA
CTS_673	Salmonella	enterica	enterica	Meleagridis	1	NA	na	OPUS	Salmonella Meleagridis	na	IA
CTS_673	Salmonella	enterica	enterica	Meleagridis	1	XLD	Typical	OPUS	Salmonella Meleagridis	na	IA
CTS_773	Salmonella	enterica	enterica	Meleagridis	1	NA	na	CFX	Salmonella Meleagridis	na	IA
CTS_773	Salmonella	enterica	enterica	Meleagridis	1	XLD	Typical	CFX	Salmonella positive, Genovar CSRJW1	na	- Repeat test
CTS_773	Salmonella	enterica	enterica	Meleagridis	2	XLD	Typical	CFX	Salmonella Meleagridis	na	IA
CTS_773	Salmonella	enterica	enterica	Meleagridis	1	NA	na	OPUS	Salmonella Meleagridis	na	IA
CTS_773	Salmonella	enterica	enterica	Meleagridis	1	XLD	Typical	OPUS	Salmonella Meleagridis	na	IA A or B
CTS_959	Salmonella	enterica	enterica	Meleagridis	1	XLD	Typical	OPUS	Salmonella Orion	na	delete error RCA: mix-up during streaking
CTS_959	Salmonella	enterica	enterica	Meleagridis	1	XLD	Typical	OPUS	Salmonella Meleagridis	na	IA
CTS_180	Salmonella	enterica	enterica	Minnesota	1	NA	na	CFX	Salmonella Minnesota	IA	IA
CTS_180	Salmonella	enterica	enterica	Minnesota	1	XLD	Typical	CFX	Salmonella Minnesota	IA	IA
CTS_180	Salmonella	enterica	enterica	Minnesota	1	NA	na	OPUS	Salmonella Minnesota	IA	IA
CTS_180	Salmonella	enterica	enterica	Minnesota	1	XLD	Typical	OPUS	Salmonella Minnesota	IA	IA
CTS_181	Salmonella	enterica	enterica	Minnesota	1	NA	na	CFX	Salmonella Minnesota	na	IA
CTS_181	Salmonella	enterica	enterica	Minnesota	1	XLD	Typical	CFX	Salmonella Minnesota	na	IA
CTS_181	Salmonella	enterica	enterica	Minnesota	1	NA	na	OPUS	Salmonella Minnesota	na	IA
CTS_181	Salmonella	enterica	enterica	Minnesota	1	XLD	Typical	OPUS	Salmonella Minnesota	na	IA
CTS_182	Salmonella	enterica	enterica	Minnesota	1	NA	na	CFX	Salmonella Minnesota	na	IA
CTS_182	Salmonella	enterica	enterica	Minnesota	1	XLD	Typical	CFX	Salmonella Minnesota	na	IA
CTS_182	Salmonella	enterica	enterica	Minnesota	1	NA	na	OPUS	Salmonella Minnesota	na	IA
CTS_182	Salmonella	enterica	enterica	Minnesota	1	XLD	Typical	OPUS	Salmonella Minnesota	na	IA
CTS_183	Salmonella	enterica	enterica	Minnesota	1	NA	na	CFX	Salmonella Minnesota	na	IA
CTS_183	Salmonella	enterica	enterica	Minnesota	1	XLD	Typical	CFX	Salmonella Minnesota	na	IA
CTS_183	Salmonella	enterica	enterica	Minnesota	1	NA	na	OPUS	Salmonella Minnesota	na	IA
CTS_183	Salmonella	enterica	enterica	Minnesota	1	XLD	Typical	OPUS	Salmonella Minnesota	na	IA
CTS_961	Salmonella	enterica	enterica	Minnesota	1	NA	na	CFX	Salmonella Minnesota	IA	IA

CTS_961	Salmonella	enterica	enterica	Minnesota	1	XLD	Typical	CFX	Salmonella Minnesota	IA	IA
CTS_961	Salmonella	enterica	enterica	Minnesota	1	NA	na	OPUS	Salmonella Minnesota	IA	IA
CTS_961	Salmonella	enterica	enterica	Minnesota	1	XLD	Typical	OPUS	Salmonella Minnesota	IA	IA
CTS_962	Salmonella	enterica	enterica	Minnesota	1	NA	na	CFX	Salmonella Minnesota	na	IA
CTS_962	Salmonella	enterica	enterica	Minnesota	1	XLD	Typical	CFX	Salmonella Minnesota	na	IA
CTS_962	Salmonella	enterica	enterica	Minnesota	1	NA	na	OPUS	Salmonella Minnesota	na	IA
CTS_962	Salmonella	enterica	enterica	Minnesota	1	XLD	Typical	OPUS	Salmonella Minnesota	na	IA
CTS_185	Salmonella	enterica	enterica	Molade	1	NA	na	CFX	Salmonella Molade	IA	IA
CTS_185	Salmonella	enterica	enterica	Molade	1	XLD	Typical	CFX	Salmonella Molade	IA	IA
CTS_185	Salmonella	enterica	enterica	Molade	2	XLD	Typical	CFX	Salmonella Molade	IA	IA
CTS_185	Salmonella	enterica	enterica	Molade	1	NA	na	OPUS	Salmonella positive, Genovar EGMVP1	IA	- Repeat test
CTS_185	Salmonella	enterica	enterica	Molade	2	NA	na	OPUS	Salmonella Molade	IA	IA
CTS_185	Salmonella	enterica	enterica	Molade	1	XLD	Typical	OPUS	Salmonella Molade	IA	IA
CTS_186	Salmonella	enterica	enterica	Molade	1	NA	na	CFX	Salmonella Molade	na	IA
CTS_186	Salmonella	enterica	enterica	Molade	1	XLD	Typical	CFX	Salmonella Molade	na	IA
CTS_186	Salmonella	enterica	enterica	Molade	1	NA	na	OPUS	Salmonella Molade	na	IA
CTS_186	Salmonella	enterica	enterica	Molade	1	XLD	Typical	OPUS	Salmonella Molade	na	IA
CTS_187	Salmonella	enterica	enterica	Molade	1	NA	na	CFX	Salmonella Molade	na	IA
CTS_187	Salmonella	enterica	enterica	Molade	1	XLD	Typical	CFX	Salmonella Molade	na	IA
CTS_187	Salmonella	enterica	enterica	Molade	1	NA	na	OPUS	Salmonella Molade	na	IA
CTS_187	Salmonella	enterica	enterica	Molade	1	XLD	Typical	OPUS	Salmonella Molade	na	IA
CTS_188	Salmonella	enterica	enterica	Molade	1	NA	na	CFX	Salmonella Molade	na	IA
CTS_188	Salmonella	enterica	enterica	Molade	1	XLD	Typical	CFX	Salmonella Molade	na	IA
CTS_188	Salmonella	enterica	enterica	Molade	1	NA	na	OPUS	Salmonella Molade	na	IA
CTS_188	Salmonella	enterica	enterica	Molade	1	XLD	Typical	OPUS	Salmonella positive, Genovar ERMVP1	na	- Repeat test
CTS_188	Salmonella	enterica	enterica	Molade	2	XLD	Typical	OPUS	Salmonella Molade	na	IA
CTS_963	Salmonella	enterica	enterica	Molade	1	NA	na	CFX	Salmonella Molade	IA	IA
CTS_963	Salmonella	enterica	enterica	Molade	1	XLD	Typical	CFX	Salmonella positive, Genovar ERRVP1	IA	- Repeat
CTS_963	Salmonella	enterica	enterica	Molade	2	XLD	Typical	CFX	Salmonella Molade	IA	IA
CTS_963	Salmonella	enterica	enterica	Molade	1	NA	Typical	OPUS	Salmonella Molade	IA	IA
CTS_963	Salmonella	enterica	enterica	Molade	1	XLD	Typical	OPUS	Salmonella positive, Genovar ERRVP1	IA	- Repeat
CTS_963	Salmonella	enterica	enterica	Molade	2	XLD	Typical	OPUS	Salmonella Molade	IA	IA

CTS_964	Salmonella	enterica	enterica	monophasic variant of Salmonella Typhimurium (1,4,[5],12:i:-)	1	NA	na	CFX	Salmonella Typhimurium monophasic	IA	IA
CTS_964	Salmonella	enterica	enterica	monophasic variant of Salmonella Typhimurium (1,4,[5],12:i:-)	1	XLD	Typical	CFX	Salmonella Typhimurium monophasic	IA	IA
CTS_964	Salmonella	enterica	enterica	monophasic variant of Salmonella Typhimurium (1,4,[5],12:i:-)	1	NA	na	OPUS	Salmonella Typhimurium monophasic	IA	IA
CTS_964	Salmonella	enterica	enterica	monophasic variant of Salmonella Typhimurium (1,4,[5],12:i:-)	1	XLD	Typical	OPUS	Salmonella Typhimurium monophasic	IA	IA
CTS_314	Salmonella	enterica	enterica	monophasic variant of Salmonella Typhimurium (1,4,[5],12:i:-)	1	NA	na	CFX	Salmonella Typhimurium monophasic	IA	IA
CTS_314	Salmonella	enterica	enterica	monophasic variant of Salmonella Typhimurium (1,4,[5],12:i:-)	1	XLD	Typical	CFX	Salmonella Typhimurium monophasic	IA	IA
CTS_314	Salmonella	enterica	enterica	monophasic variant of Salmonella Typhimurium (1,4,[5],12:i:-)	1	NA	na	OPUS	Salmonella Typhimurium monophasic	IA	IA
CTS_314	Salmonella	enterica	enterica	monophasic variant of Salmonella	1	XLD	Typical	OPUS	Salmonella Typhimurium monophasic	IA	IA

			Typhimurium (1,4,[5],12:i:-)								
CTS_316	Salmonella	enterica	enterica	monophasic variant of Salmonella Typhimurium (1,4,[5],12:i:-)	1	NA	na	CFX	Salmonella Typhimurium monophasic	IA	IA
CTS_316	Salmonella	enterica	enterica	monophasic variant of Salmonella Typhimurium (1,4,[5],12:i:-)	1	XLD	Typical	CFX	Salmonella Typhimurium monophasic	IA	IA
CTS_316	Salmonella	enterica	enterica	monophasic variant of Salmonella Typhimurium (1,4,[5],12:i:-)	1	NA	na	OPUS	Salmonella Typhimurium monophasic	IA	IA
CTS_316	Salmonella	enterica	enterica	monophasic variant of Salmonella Typhimurium (1,4,[5],12:i:-)	1	XLD	Typical	OPUS	Salmonella Typhimurium monophasic	IA	IA
CTS_317	Salmonella	enterica	enterica	monophasic variant of Salmonella Typhimurium (1,4,[5],12:i:-)	1	NA	na	CFX	Salmonella Typhimurium monophasic	IA	IA
CTS_317	Salmonella	enterica	enterica	monophasic variant of Salmonella Typhimurium (1,4,[5],12:i:-)	1	XLD	Typical	CFX	Salmonella Typhimurium monophasic	IA	IA
CTS_317	Salmonella	enterica	enterica	monophasic variant of Salmonella Typhimurium (1,4,[5],12:i:-)	1	NA	na	OPUS	Salmonella Typhimurium monophasic	IA	IA

CTS_317	Salmonella	enterica	enterica	monophasic variant of Salmonella Typhimurium (1,4,[5],12:i:-)	1	XLD	Typical	OPUS	Salmonella Typhimurium monophasic	IA	IA
CTS_318	Salmonella	enterica	enterica	monophasic variant of Salmonella Typhimurium (1,4,[5],12:i:-)	1	NA	na	CFX	Salmonella Typhimurium monophasic	na	IA
CTS_318	Salmonella	enterica	enterica	monophasic variant of Salmonella Typhimurium (1,4,[5],12:i:-)	1	XLD	Typical	CFX	Salmonella Typhimurium monophasic	na	IA
CTS_318	Salmonella	enterica	enterica	monophasic variant of Salmonella Typhimurium (1,4,[5],12:i:-)	1	NA	na	OPUS	Reaction not OK	na	- Repeat test
CTS_318	Salmonella	enterica	enterica	monophasic variant of Salmonella Typhimurium (1,4,[5],12:i:-)	2	NA	na	OPUS	Salmonella Typhimurium monophasic	na	IA
CTS_318	Salmonella	enterica	enterica	monophasic variant of Salmonella Typhimurium (1,4,[5],12:i:-)	1	XLD	Typical	OPUS	Salmonella Typhimurium monophasic	na	IA
CTS_965	Salmonella	enterica	enterica	Montevideo	1	NA	na	CFX	Salmonella positive, Genovar 4SSTJ1	IA	inconclusive result CTS_966 added
CTS_965	Salmonella	enterica	enterica	Montevideo	1	XLD	Typical	CFX	Salmonella positive, Genovar 4SSTJ1	IA	inconclusive result CTS_966 added
CTS_965	Salmonella	enterica	enterica	Montevideo	1	NA	na	OPUS	Salmonella positive, Genovar 4SSTJ1	IA	inconclusive result CTS_966 added
CTS_965	Salmonella	enterica	enterica	Montevideo	1	XLD	Typical	OPUS	Salmonella positive, Genovar 4SSTJ1	IA	inconclusive result CTS_966 added

CTS_190	Salmonella	enterica	enterica	Montevideo	1	NA	na	CFX	Salmonella Montevideo	IA	IA
CTS_190	Salmonella	enterica	enterica	Montevideo	1	XLD	Typical	CFX	Salmonella Montevideo	IA	IA
CTS_190	Salmonella	enterica	enterica	Montevideo	1	NA	na	OPUS	Salmonella Montevideo	IA	IA
CTS_190	Salmonella	enterica	enterica	Montevideo	1	XLD	Typical	OPUS	Salmonella Montevideo	IA	IA
CTS_191	Salmonella	enterica	enterica	Montevideo	1	NA	na	CFX	Salmonella Montevideo	na	IA
CTS_191	Salmonella	enterica	enterica	Montevideo	1	XLD	Typical	CFX	Salmonella Montevideo	na	IA
CTS_191	Salmonella	enterica	enterica	Montevideo	1	NA	na	OPUS	Salmonella Montevideo	na	IA
CTS_191	Salmonella	enterica	enterica	Montevideo	1	XLD	Typical	OPUS	Salmonella Montevideo	na	IA
CTS_192	Salmonella	enterica	enterica	Montevideo	1	NA	na	CFX	Salmonella Montevideo	na	IA
CTS_192	Salmonella	enterica	enterica	Montevideo	1	XLD	Typical	CFX	Salmonella Montevideo	na	IA
CTS_192	Salmonella	enterica	enterica	Montevideo	1	NA	na	OPUS	Salmonella Montevideo	na	IA
CTS_192	Salmonella	enterica	enterica	Montevideo	1	XLD	Typical	OPUS	Salmonella Montevideo	na	IA
CTS_193	Salmonella	enterica	enterica	Montevideo	1	NA	na	CFX	Salmonella Montevideo or Salmonella Oranienburg	na	IA A or B
CTS_193	Salmonella	enterica	enterica	Montevideo	1	XLD	Typical	CFX	Salmonella Montevideo	na	IA
CTS_193	Salmonella	enterica	enterica	Montevideo	2	XLD	Typical	CFX	Salmonella Montevideo	na	IA
CTS_193	Salmonella	enterica	enterica	Montevideo	1	NA	na	OPUS	Salmonella Montevideo	na	IA
CTS_193	Salmonella	enterica	enterica	Montevideo	1	XLD	Typical	OPUS	Salmonella Montevideo	na	IA

CTS_966	Salmonella	enterica	enterica	Montevideo	1	NA	na	CFX	Salmonella Montevideo	na	IA
CTS_966	Salmonella	enterica	enterica	Montevideo	1	XLD	Typical	CFX	Salmonella Montevideo	na	IA
CTS_966	Salmonella	enterica	enterica	Montevideo	1	NA	na	OPUS	Salmonella Montevideo	na	IA
CTS_966	Salmonella	enterica	enterica	Montevideo	1	XLD	Typical	OPUS	Salmonella Montevideo	na	IA
CTS_967	Salmonella	enterica	enterica	Muenchen	1	NA	na	CFX	Salmonella positive, Genovar WXRYY1	IA	- Repeat test
CTS_967	Salmonella	enterica	enterica	Muenchen	2	NA	na	CFX	Salmonella Muenchen	IA	IA
CTS_967	Salmonella	enterica	enterica	Muenchen	1	XLD	Typical	CFX	Salmonella Muenchen	IA	IA
CTS_967	Salmonella	enterica	enterica	Muenchen	1	NA	na	OPUS	Salmonella Muenchen	IA	IA
CTS_967	Salmonella	enterica	enterica	Muenchen	1	XLD	Typical	OPUS	Salmonella Muenchen	IA	IA
CTS_968	Salmonella	enterica	enterica	Muenchen	1	NA	na	CFX	Salmonella Muenchen	na	IA
CTS_968	Salmonella	enterica	enterica	Muenchen	1	XLD	Typical	CFX	Salmonella Muenchen	na	IA
CTS_968	Salmonella	enterica	enterica	Muenchen	1	NA	na	OPUS	Salmonella Muenchen	na	IA
CTS_968	Salmonella	enterica	enterica	Muenchen	1	XLD	Typical	OPUS	Salmonella positive, Genovar YXRYY1	na	- Repeat test
CTS_968	Salmonella	enterica	enterica	Muenchen	2	XLD	Typical	Opus	Salmonella Muenchen	na	IA
CTS_195	Salmonella	enterica	enterica	Muenchen	1	NA	na	CFX	Salmonella Muenchen	IA	IA
CTS_195	Salmonella	enterica	enterica	Muenchen	1	XLD	Typical	CFX	Salmonella Muenchen	IA	IA
CTS_195	Salmonella	enterica	enterica	Muenchen	1	NA	na	OPUS	Salmonella Muenchen	IA	IA
CTS_195	Salmonella	enterica	enterica	Muenchen	1	XLD	Typical	OPUS	Salmonella Muenchen	IA	IA
CTS_507	Salmonella	enterica	enterica	Muenchen	1	NA	na	CFX	Salmonella Muenchen	na	na Repeat test
CTS_507	Salmonella	enterica	enterica	Muenchen	1	XLD	Typical	CFX	No DNA detected	na	IA
CTS_507	Salmonella	enterica	enterica	Muenchen	2	XLD	Typical	CFX	Salmonella Muenchen	na	IA
CTS_507	Salmonella	enterica	enterica	Muenchen	1	NA	na	OPUS	Salmonella Muenchen	na	IA
CTS_507	Salmonella	enterica	enterica	Muenchen	1	XLD	Typical	OPUS	Salmonella Muenchen	na	IA
CTS_516	Salmonella	enterica	enterica	Muenchen	1	NA	na	CFX	Salmonella Muenchen	na	IA
CTS_516	Salmonella	enterica	enterica	Muenchen	1	XLD	Typical	CFX	Salmonella Muenchen	na	IA
CTS_516	Salmonella	enterica	enterica	Muenchen	1	NA	na	OPUS	Salmonella Muenchen	na	IA
CTS_516	Salmonella	enterica	enterica	Muenchen	1	XLD	Typical	OPUS	Salmonella Muenchen	na	IA
CTS_969	Salmonella	enterica	enterica	Muenster	1	NA	na	CFX	Salmonella positive, Genovar CXVTJ1	IA	- Repeat
CTS_969	Salmonella	enterica	enterica	Muenster	2	NA	na	CFX	Salmonella Muenster or Poona	IA	IA A or B

CTS_969	Salmonella	enterica	enterica	Muenster	1	XLD	Typical	CFX	Salmonella Muenster or Poona	IA	IA	A or B
CTS_969	Salmonella	enterica	enterica	Muenster	1	NA	na	OPUS	Salmonella Muenster or Poona	IA	IA	A or B
CTS_969	Salmonella	enterica	enterica	Muenster	1	XLD	Typical	OPUS	Salmonella Muenster or Poona	IA	IA	A or B
CTS_198	Salmonella	enterica	enterica	Muenster	1	NA	na	CFX	Salmonella Muenster or Poona	na	IA	A or B
CTS_198	Salmonella	enterica	enterica	Muenster	1	XLD	Typical	CFX	Salmonella positive, Genovar CSTTJ1	na	-	Repeat test
CTS_198	Salmonella	enterica	enterica	Muenster	2	XLD	Typical	CFX	Salmonella Muenster or Poona	na	IA	A or B
CTS_198	Salmonella	enterica	enterica	Muenster	1	NA	na	OPUS	Salmonella Muenster or Poona	na	IA	A or B
CTS_198	Salmonella	enterica	enterica	Muenster	1	XLD	Typical	OPUS	Salmonella Muenster or Poona	na	IA	A or B
CTS_200	Salmonella	enterica	enterica	Muenster	1	NA	na	CFX	Salmonella Muenster or Poona	IA	IA	A or B
CTS_200	Salmonella	enterica	enterica	Muenster	1	XLD	Typical	CFX	Salmonella Muenster or Poona	IA	IA	A or B
CTS_200	Salmonella	enterica	enterica	Muenster	1	NA	na	OPUS	Salmonella Muenster or Poona	IA	IA	A or B
CTS_200	Salmonella	enterica	enterica	Muenster	1	XLD	Typical	OPUS	Salmonella Muenster or Poona	IA	IA	A or B
CTS_202	Salmonella	enterica	enterica	Muenster	1	NA	na	CFX	Salmonella Muenster or Poona	na	IA	A or B
CTS_202	Salmonella	enterica	enterica	Muenster	1	XLD	Typical	CFX	Salmonella Muenster or Poona	na	IA	A or B
CTS_202	Salmonella	enterica	enterica	Muenster	1	NA	na	OPUS	Salmonella Muenster or Poona	na	IA	A or B
CTS_202	Salmonella	enterica	enterica	Muenster	1	XLD	Typical	OPUS	Salmonella Muenster or Poona	na	IA	A or B
CTS_203	Salmonella	enterica	enterica	Muenster	1	NA	na	CFX	Salmonella Muenster or Poona	na	IA	A or B
CTS_203	Salmonella	enterica	enterica	Muenster	1	XLD	Typical	CFX	Salmonella Muenster or Poona	na	IA	A or B

CTS_203	Salmonella	enterica	enterica	Muenster	1	NA	na	OPUS	Salmonella Muenster or Poona	na	IA	A or B
CTS_203	Salmonella	enterica	enterica	Muenster	1	XLD	Typical	OPUS	Salmonella Muenster or Poona	na	IA	A or B
CTS_970	Salmonella	enterica	enterica	Newport	1	NA	na	CFX	Salmonella Newport	IA	IA	
CTS_970	Salmonella	enterica	enterica	Newport	1	XLD	Typical	CFX	Salmonella Newport	IA	IA	
CTS_970	Salmonella	enterica	enterica	Newport	1	NA	na	OPUS	Salmonella Newport	IA	IA	
CTS_970	Salmonella	enterica	enterica	Newport	1	XLD	Typical	OPUS	Salmonella Newport	IA	IA	
CTS_206	Salmonella	enterica	enterica	Newport	1	NA	na	CFX	Salmonella Newport	IA	IA	
CTS_206	Salmonella	enterica	enterica	Newport	1	XLD	Typical	CFX	Salmonella Newport	IA	IA	
CTS_206	Salmonella	enterica	enterica	Newport	1	NA	na	OPUS	Salmonella Newport	IA	IA	
CTS_206	Salmonella	enterica	enterica	Newport	1	XLD	Typical	OPUS	Salmonella Newport	IA	IA	
CTS_207	Salmonella	enterica	enterica	Newport	1	NA	na	CFX	Salmonella Newport	na	IA	
CTS_207	Salmonella	enterica	enterica	Newport	1	XLD	Typical	CFX	Salmonella Newport	na	IA	
CTS_207	Salmonella	enterica	enterica	Newport	2	XLD	Typical	CFX	Salmonella Newport	na	IA	
CTS_207	Salmonella	enterica	enterica	Newport	1	NA	na	OPUS	Salmonella Newport	na	IA	
CTS_207	Salmonella	enterica	enterica	Newport	1	XLD	Typical	OPUS	Salmonella Newport	na	IA	
CTS_208	Salmonella	enterica	enterica	Newport	1	NA	na	CFX	Salmonella Newport	na	IA	
CTS_208	Salmonella	enterica	enterica	Newport	1	XLD	Typical	CFX	Salmonella Newport	na	IA	
CTS_208	Salmonella	enterica	enterica	Newport	1	NA	na	OPUS	Salmonella Newport	na	IA	
CTS_208	Salmonella	enterica	enterica	Newport	1	XLD	Typical	OPUS	Salmonella Newport	na	IA	
CTS_514	Salmonella	enterica	enterica	Newport	1	NA	na	CFX	Salmonella Newport	na	IA	
CTS_514	Salmonella	enterica	enterica	Newport	1	XLD	Typical	CFX	Salmonella Newport	na	IA	
CTS_514	Salmonella	enterica	enterica	Newport	1	NA	na	OPUS	Salmonella Newport	na	IA	
CTS_514	Salmonella	enterica	enterica	Newport	1	XLD	Typical	OPUS	Salmonella Newport	na	IA	
CTS_701	Salmonella	enterica	enterica	Nottingham	1	NA	na	CFX	Salmonella Nottingham	na	IA	
CTS_701	Salmonella	enterica	enterica	Nottingham	1	XLD	Typical	CFX	Salmonella Nottingham	na	IA	
CTS_701	Salmonella	enterica	enterica	Nottingham	1	NA	na	OPUS	Salmonella Nottingham	na	IA	
CTS_701	Salmonella	enterica	enterica	Nottingham	1	XLD	Typical	OPUS	Salmonella Nottingham	na	IA	
CTS_775	Salmonella	enterica	enterica	Nottingham	1	NA	na	CFX	Salmonella Nottingham	na	IA	
CTS_775	Salmonella	enterica	enterica	Nottingham	1	XLD	Typical	CFX	Salmonella Nottingham	na	IA	

CTS_775	Salmonella	enterica	enterica	Nottingham	1	NA	na	OPUS	Salmonella Nottingham	na	IA
CTS_775	Salmonella	enterica	enterica	Nottingham	1	XLD	Typical	OPUS	Salmonella Nottingham	na	IA
CTS_971	Salmonella	enterica	enterica	Nottingham	1	NA	na	CFX	Salmonella Nottingham	na	IA
CTS_971	Salmonella	enterica	enterica	Nottingham	1	XLD	Typical	CFX	Salmonella Nottingham	na	IA
CTS_971	Salmonella	enterica	enterica	Nottingham	1	NA	na	OPUS	Salmonella Nottingham	na	IA
CTS_971	Salmonella	enterica	enterica	Nottingham	1	XLD	Typical	OPUS	Salmonella Nottingham	na	IA
CTS_972	Salmonella	enterica	enterica	Nottingham	1	NA	na	CFX	Salmonella Nottingham	na	IA
CTS_972	Salmonella	enterica	enterica	Nottingham	1	XLD	Typical	CFX	Salmonella Nottingham	na	IA
CTS_972	Salmonella	enterica	enterica	Nottingham	1	NA	na	OPUS	Salmonella Nottingham	na	IA
CTS_972	Salmonella	enterica	enterica	Nottingham	1	XLD	Typical	Opus	Salmonella Nottingham	na	IA
CTS_973	Salmonella	enterica	enterica	Nottingham	1	NA	na	CFX	Salmonella Nottingham	na	IA
CTS_973	Salmonella	enterica	enterica	Nottingham	1	XLD	Typical	CFX	Salmonella Nottingham	na	IA
CTS_973	Salmonella	enterica	enterica	Nottingham	1	NA	na	OPUS	Salmonella Nottingham	na	IA
CTS_973	Salmonella	enterica	enterica	Nottingham	1	XLD	Typical	Opus	Salmonella Nottingham	na	IA
CTS_974	Salmonella	enterica	enterica	Nottingham	1	NA	na	CFX	Salmonella Nottingham	na	IA
CTS_974	Salmonella	enterica	enterica	Nottingham	1	XLD	Typical	CFX	Salmonella Nottingham	na	IA
CTS_974	Salmonella	enterica	enterica	Nottingham	1	NA	na	OPUS	Salmonella Nottingham	na	IA
CTS_974	Salmonella	enterica	enterica	Nottingham	1	XLD	Typical	Opus	Salmonella Nottingham	na	IA
CTS_638	Salmonella	enterica	enterica	Offa	1	NA	na	CFX	Salmonella Offa	na	IA



CTS_638	Salmonella	enterica	enterica	Offa	error	NA	na	CFX	Salmonella Lexington	na	delete error	RCA: WGS showed it was Lexington. Mix-up during streaking
CTS_638	Salmonella	enterica	enterica	Offa	1	XLD	Typical	CFX	Salmonella Offa	na	IA	
CTS_638	Salmonella	enterica	enterica	Offa	1	NA	na	OPUS	Salmonella Offa	na	IA	
CTS_638	Salmonella	enterica	enterica	Offa	error	NA	na	OPUS	Salmonella Kedougou	na	delete error	RCA: WGS showed it was Kedougou. Mix-up during streaking
CTS_638	Salmonella	enterica	enterica	Offa	1	XLD	Typical	OPUS	Salmonella positive, Genovar WHRJP1	na	-	Repeat
CTS_638	Salmonella	enterica	enterica	Offa	2	XLD	Typical	OPUS	Salmonella Offa	na	IA	
CTS_700	Salmonella	enterica	enterica	Offa	1	NA	na	CFX	Salmonella Offa	na	IA	
CTS_700	Salmonella	enterica	enterica	Offa	1	XLD	Typical	CFX	Salmonella Offa	na	IA	
CTS_700	Salmonella	enterica	enterica	Offa	1	NA	na	OPUS	Salmonella Offa	na	IA	
CTS_700	Salmonella	enterica	enterica	Offa	1	XLD	Typical	OPUS	Salmonella Offa	na	IA	
CTS_765	Salmonella	enterica	enterica	Offa	1	NA	na	CFX	Salmonella Offa	na	IA	
CTS_765	Salmonella	enterica	enterica	Offa	1	XLD	Typical	CFX	Salmonella Offa	na	IA	
CTS_765	Salmonella	enterica	enterica	Offa	1	NA	na	OPUS	Salmonella Offa	na	IA	
CTS_765	Salmonella	enterica	enterica	Offa	1	XLD	Typical	OPUS	Salmonella Offa	na	IA	
CTS_801	Salmonella	enterica	enterica	Offa	1	NA	na	CFX	Salmonella Offa	na	IA	
CTS_801	Salmonella	enterica	enterica	Offa	1	XLD	Typical	CFX	Salmonella Offa	na	IA	
CTS_801	Salmonella	enterica	enterica	Offa	1	NA	na	OPUS	Salmonella Offa	na	IA	
CTS_801	Salmonella	enterica	enterica	Offa	1	XLD	Typical	OPUS	Salmonella Offa	na	IA	
CTS_975	Salmonella	enterica	enterica	Offa	1	NA	na	CFX	Salmonella positive, Genovar 4SHEP1	na	inconclusive result	CTS_976 added
CTS_975	Salmonella	enterica	enterica	Offa	1	XLD	Typical	CFX	Salmonella positive, Genovar 4SHEP1	na	inconclusive result	CTS_976 added
CTS_975	Salmonella	enterica	enterica	Offa	1	NA	na	OPUS	Salmonella positive, Genovar 4SHEP1	na	inconclusive result	CTS_976 added
CTS_975	Salmonella	enterica	enterica	Offa	1	XLD	Typical	OPUS	Salmonella positive, Genovar 4SHEP1	na	inconclusive result	CTS_976 added
CTS_976	Salmonella	enterica	enterica	Offa	1	NA	na	CFX	Salmonella Offa	na	IA	
CTS_976	Salmonella	enterica	enterica	Offa	1	XLD	Typical	CFX	Salmonella Offa	na	IA	
CTS_976	Salmonella	enterica	enterica	Offa	1	NA	na	OPUS	Salmonella Offa	na	IA	
CTS_976	Salmonella	enterica	enterica	Offa	1	XLD	Typical	OPUS	Salmonella Offa	na	IA	



CTS_977	Salmonella	enterica	enterica	Ohio	1	NA	na	CFX	Salmonella Ohio	IA	IA
CTS_977	Salmonella	enterica	enterica	Ohio	1	XLD	Typical	CFX	Salmonella positive, Genovar CWJ6Y1	IA	- Repeat test
CTS_977	Salmonella	enterica	enterica	Ohio	2	XLD	Typical	CFX	Salmonella positive, Genovar CWJ6Y1	IA	inconclusive result
CTS_977	Salmonella	enterica	enterica	Ohio	1	NA	na	OPUS	Salmonella Ohio	IA	IA
CTS_977	Salmonella	enterica	enterica	Ohio	1	XLD	Typical	OPUS	Salmonella Ohio	IA	IA
CTS_210	Salmonella	enterica	enterica	Ohio	1	NA	na	CFX	Salmonella Ohio	IA	IA
CTS_210	Salmonella	enterica	enterica	Ohio	1	XLD	Typical	CFX	Salmonella Ohio	IA	IA
CTS_210	Salmonella	enterica	enterica	Ohio	1	NA	na	OPUS	Salmonella Ohio	IA	IA
CTS_210	Salmonella	enterica	enterica	Ohio	1	XLD	Typical	OPUS	Salmonella Ohio	IA	IA
CTS_211	Salmonella	enterica	enterica	Ohio	1	NA	na	CFX	Salmonella Ohio	na	IA
CTS_211	Salmonella	enterica	enterica	Ohio	1	XLD	Typical	CFX	Salmonella Ohio	na	IA
CTS_211	Salmonella	enterica	enterica	Ohio	1	NA	na	OPUS	Salmonella Ohio	na	IA
CTS_211	Salmonella	enterica	enterica	Ohio	1	XLD	Typical	OPUS	Salmonella Ohio	na	IA
CTS_212	Salmonella	enterica	enterica	Ohio	1	NA	na	CFX	Salmonella Ohio	na	IA
CTS_212	Salmonella	enterica	enterica	Ohio	1	XLD	Typical	CFX	Salmonella Ohio	na	IA
CTS_212	Salmonella	enterica	enterica	Ohio	1	NA	na	OPUS	Salmonella Ohio	na	IA
CTS_212	Salmonella	enterica	enterica	Ohio	1	XLD	Typical	OPUS	Salmonella Ohio	na	IA
CTS_213	Salmonella	enterica	enterica	Ohio	1	NA	na	CFX	Salmonella Ohio	na	IA
CTS_213	Salmonella	enterica	enterica	Ohio	1	XLD	Typical	CFX	Salmonella Ohio	na	IA
CTS_213	Salmonella	enterica	enterica	Ohio	1	NA	na	OPUS	Salmonella Ohio	na	IA
CTS_213	Salmonella	enterica	enterica	Ohio	1	XLD	Typical	OPUS	Salmonella Ohio	na	IA
CTS_978	Salmonella	enterica	enterica	Ohio	1	NA	na	CFX	Salmonella Ohio	na	IA
CTS_978	Salmonella	enterica	enterica	Ohio	1	XLD	Typical	CFX	Salmonella Ohio	na	IA
CTS_978	Salmonella	enterica	enterica	Ohio	1	NA	na	OPUS	Salmonella Ohio	na	IA
CTS_978	Salmonella	enterica	enterica	Ohio	1	XLD	Typical	OPUS	Salmonella Ohio	na	IA
CTS_979	Salmonella	enterica	enterica	Oranienburg	1	NA	na	CFX	Salmonella Oranienburg	IA	IA
CTS_979	Salmonella	enterica	enterica	Oranienburg	1	XLD	Typical	CFX	Salmonella Oranienburg	IA	IA
CTS_979	Salmonella	enterica	enterica	Oranienburg	1	NA	na	OPUS	Salmonella Oranienburg	IA	IA
CTS_979	Salmonella	enterica	enterica	Oranienburg	1	XLD	Typical	OPUS	Salmonella Oranienburg	IA	IA

CTS_980	Salmonella	enterica	enterica	Oranienburg	1	NA	na	CFX	Salmonella Oranienburg or Senftenberg	IA	IA	A or B
CTS_980	Salmonella	enterica	enterica	Oranienburg	1	XLD	Typical	CFX	Salmonella Oranienburg or Senftenberg	IA	IA	A or B
CTS_980	Salmonella	enterica	enterica	Oranienburg	1	NA	na	OPUS	Salmonella Oranienburg or Senftenberg	IA	IA	A or B
CTS_980	Salmonella	enterica	enterica	Oranienburg	1	XLD	Typical	OPUS	Salmonella Oranienburg or Senftenberg	IA	IA	A or B
CTS_981	Salmonella	enterica	enterica	Oranienburg	1	NA	na	CFX	Salmonella Oranienburg or Senftenberg	na	IA	A or B
CTS_981	Salmonella	enterica	enterica	Oranienburg	1	XLD	Typical	CFX	Salmonella Oranienburg or Senftenberg	na	IA	A or B
CTS_981	Salmonella	enterica	enterica	Oranienburg	1	NA	na	OPUS	Salmonella Oranienburg or Senftenberg	na	IA	A or B
CTS_981	Salmonella	enterica	enterica	Oranienburg	1	XLD	Typical	OPUS	Salmonella Oranienburg or Senftenberg	na	IA	A or B
CTS_216	Salmonella	enterica	enterica	Oranienburg	1	NA	na	CFX	Salmonella Llandoff or Oranienburg	na	IA	A or B
CTS_216	Salmonella	enterica	enterica	Oranienburg	1	XLD	Typical	CFX	Salmonella Llandoff or Oranienburg	na	IA	A or B
CTS_216	Salmonella	enterica	enterica	Oranienburg	1	NA	na	OPUS	Salmonella Llandoff or Oranienburg	na	IA	A or B
CTS_216	Salmonella	enterica	enterica	Oranienburg	1	XLD	Typical	OPUS	Salmonella Llandoff or Oranienburg	na	IA	A or B
CTS_218	Salmonella	enterica	enterica	Oranienburg	1	NA	na	CFX	Salmonella Oranienburg	na	IA	
CTS_218	Salmonella	enterica	enterica	Oranienburg	1	XLD	Typical	CFX	Salmonella Oranienburg	na	IA	
CTS_218	Salmonella	enterica	enterica	Oranienburg	1	NA	na	OPUS	Salmonella Montevideo or	na	IA	A or B

								Salmonella	
								Oranienburg	
CTS_218	Salmonella	enterica	enterica	Oranienburg	1	XLD	Typical	OPUS	Salmonella Oranienburg na IA
CTS_982	Salmonella	enterica	enterica	Oranienburg	1	NA	na	CFX	Salmonella Oranienburg na IA
CTS_982	Salmonella	enterica	enterica	Oranienburg	1	XLD	Typical	CFX	Salmonella Oranienburg na IA
CTS_982	Salmonella	enterica	enterica	Oranienburg	1	NA	na	OPUS	Salmonella Oranienburg na IA
CTS_982	Salmonella	enterica	enterica	Oranienburg	1	XLD	Typical	OPUS	Salmonella Oranienburg na IA
CTS_983	Salmonella	enterica	enterica	Oranienburg	1	NA	na	CFX	Salmonella Oranienburg na IA
CTS_983	Salmonella	enterica	enterica	Oranienburg	1	XLD	Typical	CFX	Salmonella Oranienburg na IA
CTS_983	Salmonella	enterica	enterica	Oranienburg	1	NA	na	OPUS	Salmonella Oranienburg na IA
CTS_983	Salmonella	enterica	enterica	Oranienburg	1	XLD	Typical	OPUS	Salmonella Oranienburg na IA
CTS_984	Salmonella	enterica	enterica	Ordonez	1	NA	na	CFX	Salmonella Ordonez na IA
CTS_984	Salmonella	enterica	enterica	Ordonez	1	XLD	Typical	CFX	Salmonella Ordonez na IA
CTS_984	Salmonella	enterica	enterica	Ordonez	1	NA	na	OPUS	Salmonella Ordonez na IA
CTS_984	Salmonella	enterica	enterica	Ordonez	1	XLD	Typical	OPUS	Salmonella Ordonez na IA
CTS_591	Salmonella	enterica	enterica	Ordonez	1	NA	na	CFX	Salmonella Ordonez na IA
CTS_591	Salmonella	enterica	enterica	Ordonez	1	XLD	Typical	CFX	Salmonella Ordonez na IA
CTS_591	Salmonella	enterica	enterica	Ordonez	1	NA	na	OPUS	Salmonella Ordonez na IA
CTS_591	Salmonella	enterica	enterica	Ordonez	1	XLD	Typical	OPUS	Salmonella Ordonez na IA
CTS_629	Salmonella	enterica	enterica	Ordonez	1	NA	na	CFX	Salmonella Ordonez na IA
CTS_629	Salmonella	enterica	enterica	Ordonez	1	XLD	Typical	CFX	Salmonella Ordonez na IA
CTS_629	Salmonella	enterica	enterica	Ordonez	1	NA	na	OPUS	Salmonella Ordonez na IA
CTS_629	Salmonella	enterica	enterica	Ordonez	1	XLD	Typical	OPUS	Salmonella Ordonez na IA
CTS_754	Salmonella	enterica	enterica	Ordonez	1	NA	na	CFX	Salmonella Ordonez na IA
CTS_754	Salmonella	enterica	enterica	Ordonez	1	XLD	Typical	CFX	Salmonella Ordonez na IA
CTS_754	Salmonella	enterica	enterica	Ordonez	1	NA	na	OPUS	Salmonella Ordonez na IA
CTS_754	Salmonella	enterica	enterica	Ordonez	1	XLD	Typical	OPUS	Salmonella Ordonez na IA
CTS_761	Salmonella	enterica	enterica	Ordonez	1	NA	na	CFX	Salmonella Ordonez na IA



CTS_761	Salmonella	enterica	enterica	Ordonez	1	XLD	Typical	CFX	Salmonella Ordonez	na	IA
CTS_761	Salmonella	enterica	enterica	Ordonez	1	NA	na	OPUS	Salmonella Ordonez	na	IA
CTS_761	Salmonella	enterica	enterica	Ordonez	1	XLD	Typical	OPUS	Salmonella Ordonez	na	IA
CTS_985	Salmonella	enterica	enterica	Orion	1	NA	na	CFX	Salmonella Orion	na	IA
CTS_985	Salmonella	enterica	enterica	Orion	1	XLD	Typical	CFX	Salmonella Orion	na	IA
CTS_985	Salmonella	enterica	enterica	Orion	1	NA	na	OPUS	Salmonella Orion	na	IA
CTS_985	Salmonella	enterica	enterica	Orion	1	XLD	Typical	OPUS	Salmonella Orion	na	IA
CTS_986	Salmonella	enterica	enterica	Orion	1	NA	na	CFX	Salmonella positive, Genovar CSGEP1	na	inconclusive result CTS_987 added
CTS_986	Salmonella	enterica	enterica	Orion	1	XLD	Typical	CFX	No DNA detected	na	- Repeat test
CTS_986	Salmonella	enterica	enterica	Orion	2	XLD	Typical	CFX	Salmonella positive, Genovar CSGEP1	na	inconclusive result CTS_987 added
CTS_986	Salmonella	enterica	enterica	Orion	1	NA	na	OPUS	Salmonella positive, Genovar CSGEP1	na	inconclusive result CTS_987 added
CTS_986	Salmonella	enterica	enterica	Orion	1	XLD	Typical	OPUS	Salmonella positive, Genovar CSGEP1	na	inconclusive result CTS_987 added
CTS_219	Salmonella	enterica	enterica	Orion	1	NA	na	CFX	Salmonella Orion	IA	IA
CTS_219	Salmonella	enterica	enterica	Orion	1	XLD	Typical	CFX	Salmonella Orion	IA	IA
CTS_219	Salmonella	enterica	enterica	Orion	1	NA	na	OPUS	Salmonella Orion	IA	IA
CTS_219	Salmonella	enterica	enterica	Orion	1	XLD	Typical	OPUS	Salmonella Orion	IA	IA
CTS_222	Salmonella	enterica	enterica	Orion	1	NA	na	CFX	Salmonella Orion	IA	IA
CTS_222	Salmonella	enterica	enterica	Orion	1	XLD	Typical	CFX	Salmonella Orion	IA	IA
CTS_222	Salmonella	enterica	enterica	Orion	1	NA	na	OPUS	Salmonella Orion	IA	IA
CTS_222	Salmonella	enterica	enterica	Orion	1	XLD	Typical	OPUS	Salmonella Orion	IA	IA
CTS_223	Salmonella	enterica	enterica	Orion	1	NA	na	CFX	Salmonella Orion	na	IA
CTS_223	Salmonella	enterica	enterica	Orion	1	XLD	Typical	CFX	Salmonella Orion	na	IA
CTS_223	Salmonella	enterica	enterica	Orion	1	NA	na	OPUS	Salmonella Orion	na	IA
CTS_223	Salmonella	enterica	enterica	Orion	1	XLD	Typical	OPUS	Salmonella Orion	na	IA
CTS_987	Salmonella	enterica	enterica	Orion	1	NA	na	CFX	Salmonella Orion	na	IA
CTS_987	Salmonella	enterica	enterica	Orion	1	XLD	Typical	CFX	Salmonella positive, Genovar CXRPR1	na	- Repeat
CTS_987	Salmonella	enterica	enterica	Orion	1	NA	na	OPUS	Salmonella positive, Genovar CSTPT1	na	- Repeat
CTS_987	Salmonella	enterica	enterica	Orion	1	XLD	Typical	OPUS	Salmonella Orion	na	IA
CTS_987	Salmonella	enterica	enterica	Orion	2	XLD	Typical	CFX	Salmonella Orion	na	IA
CTS_987	Salmonella	enterica	enterica	Orion	2	NA	na	OPUS	Salmonella positive, Genovar CSTPT1	na	inconclusive result

CTS_224	Salmonella	enterica	enterica	Ouakam	1	NA	na	CFX	Salmonella Ouakam	IA	IA
CTS_224	Salmonella	enterica	enterica	Ouakam	1	XLD	Typical	CFX	Salmonella Ouakam	IA	IA
CTS_224	Salmonella	enterica	enterica	Ouakam	1	NA	na	OPUS	Salmonella Ouakam	IA	IA
CTS_224	Salmonella	enterica	enterica	Ouakam	1	XLD	Typical	OPUS	Salmonella Ouakam	IA	IA
CTS_225	Salmonella	enterica	enterica	Ouakam	1	NA	na	CFX	Salmonella positive, Genovar CNGJT1	IA	- Repeat test
CTS_225	Salmonella	enterica	enterica	Ouakam	2	NA	na	CFX	Salmonella Ouakam	IA	IA
CTS_225	Salmonella	enterica	enterica	Ouakam	1	XLD	Typical	CFX	Salmonella Ouakam	IA	IA
CTS_225	Salmonella	enterica	enterica	Ouakam	1	NA	na	OPUS	Salmonella Ouakam	IA	IA
CTS_225	Salmonella	enterica	enterica	Ouakam	1	XLD	Typical	OPUS	Salmonella Ouakam	IA	IA
CTS_227	Salmonella	enterica	enterica	Ouakam	1	NA	na	CFX	Salmonella Ouakam	na	IA
CTS_227	Salmonella	enterica	enterica	Ouakam	1	XLD	Typical	CFX	Salmonella Ouakam	na	IA
CTS_227	Salmonella	enterica	enterica	Ouakam	1	NA	na	OPUS	Salmonella Ouakam	na	IA
CTS_227	Salmonella	enterica	enterica	Ouakam	1	XLD	Typical	OPUS	Salmonella Ouakam	na	IA
CTS_228	Salmonella	enterica	enterica	Ouakam	1	NA	na	CFX	Salmonella Ouakam	na	IA
CTS_228	Salmonella	enterica	enterica	Ouakam	1	XLD	Typical	CFX	Salmonella Ouakam	na	IA
CTS_228	Salmonella	enterica	enterica	Ouakam	1	NA	na	OPUS	Salmonella Ouakam	na	IA
CTS_228	Salmonella	enterica	enterica	Ouakam	1	XLD	Typical	OPUS	Salmonella Ouakam	na	IA
CTS_515	Salmonella	enterica	enterica	Ouakam	1	NA	na	CFX	Salmonella Ouakam	na	IA
CTS_515	Salmonella	enterica	enterica	Ouakam	1	XLD	Typical	CFX	Salmonella Ouakam	na	IA
CTS_515	Salmonella	enterica	enterica	Ouakam	1	NA	na	OPUS	Salmonella Ouakam	na	IA
CTS_515	Salmonella	enterica	enterica	Ouakam	1	XLD	Typical	OPUS	Salmonella Ouakam	na	IA
CTS_229	Salmonella	enterica	enterica	Panama	1	NA	na	CFX	Salmonella positive, Genovar CHYJP1	IA	inconclusive result CTS_989 added
CTS_229	Salmonella	enterica	enterica	Panama	1	XLD	Typical	CFX	Salmonella Panama	IA	IA
CTS_229	Salmonella	enterica	enterica	Panama	1	NA	na	OPUS	Salmonella Panama	IA	IA
CTS_229	Salmonella	enterica	enterica	Panama	1	XLD	Typical	OPUS	Salmonella Panama	IA	IA
CTS_230	Salmonella	enterica	enterica	Panama	1	NA	na	CFX	Salmonella Panama	IA	IA
CTS_230	Salmonella	enterica	enterica	Panama	1	XLD	Typical	CFX	Salmonella Panama	IA	IA
CTS_230	Salmonella	enterica	enterica	Panama	1	NA	na	OPUS	Salmonella Panama	IA	IA
CTS_230	Salmonella	enterica	enterica	Panama	1	XLD	Typical	OPUS	Salmonella Panama	IA	IA
CTS_232	Salmonella	enterica	enterica	Panama	1	NA	na	CFX	Salmonella Panama	na	IA
CTS_232	Salmonella	enterica	enterica	Panama	1	XLD	Typical	CFX	Salmonella Panama	na	IA
CTS_232	Salmonella	enterica	enterica	Panama	1	NA	na	OPUS	Salmonella Panama	na	IA
CTS_232	Salmonella	enterica	enterica	Panama	1	XLD	Typical	OPUS	Salmonella Panama	na	IA
CTS_233	Salmonella	enterica	enterica	Panama	1	NA	na	CFX	Salmonella Panama	na	IA
CTS_233	Salmonella	enterica	enterica	Panama	1	XLD	Typical	CFX	Salmonella Panama	na	IA

CTS_233	Salmonella	enterica	enterica	Panama	1	NA	na	OPUS	Salmonella Panama	na	IA
CTS_233	Salmonella	enterica	enterica	Panama	1	XLD	Typical	OPUS	Salmonella Panama	na	IA
CTS_988	Salmonella	enterica	enterica	Panama	1	NA	na	CFX	Salmonella Panama	na	IA
CTS_988	Salmonella	enterica	enterica	Panama	1	XLD	Typical	CFX	Salmonella Panama	na	IA
CTS_988	Salmonella	enterica	enterica	Panama	1	NA	na	OPUS	Salmonella Panama	na	IA
CTS_988	Salmonella	enterica	enterica	Panama	1	XLD	Typical	OPUS	Salmonella Panama	na	IA
CTS_989	Salmonella	enterica	enterica	Panama	1	NA	na	CFX	Salmonella Panama	IA	IA
CTS_989	Salmonella	enterica	enterica	Panama	1	XLD	Typical	CFX	Salmonella Panama	IA	IA
CTS_989	Salmonella	enterica	enterica	Panama	1	NA	na	OPUS	Salmonella Panama	IA	IA
CTS_989	Salmonella	enterica	enterica	Panama	1	XLD	Typical	OPUS	Salmonella Panama	IA	IA
CTS_235	Salmonella	enterica	enterica	Paratyphi B (possibly Java)	1	NA	na	CFX	Salmonella Paratyphi B biovar. Java	IA	IA
CTS_235	Salmonella	enterica	enterica	Paratyphi B (possibly Java)	1	XLD	Typical	CFX	Salmonella Paratyphi B biovar. Java	IA	IA
CTS_235	Salmonella	enterica	enterica	Paratyphi B (possibly Java)	1	NA	na	OPUS	Salmonella Paratyphi B biovar. Java	IA	IA
CTS_235	Salmonella	enterica	enterica	Paratyphi B (possibly Java)	1	XLD	Typical	OPUS	Salmonella Paratyphi B biovar. Java	IA	IA
CTS_238	Salmonella	enterica	enterica	Paratyphi B (possibly Java)	1	NA	na	CFX	Salmonella Paratyphi B biovar. Java	na	IA
CTS_238	Salmonella	enterica	enterica	Paratyphi B (possibly Java)	1	XLD	Typical	CFX	Salmonella Paratyphi B biovar. Java	na	IA
CTS_238	Salmonella	enterica	enterica	Paratyphi B (possibly Java)	1	NA	na	OPUS	Salmonella Paratyphi B biovar. Java	na	IA
CTS_238	Salmonella	enterica	enterica	Paratyphi B (possibly Java)	1	XLD	Typical	OPUS	Salmonella Paratyphi B biovar. Java	na	IA
CTS_990	Salmonella	enterica	enterica	Paratyphi B biovar. Java	1	NA	na	CFX	Salmonella Paratyphi B biovar. Java	na	IA
CTS_990	Salmonella	enterica	enterica	Paratyphi B biovar. Java	1	XLD	Typical	CFX	Salmonella Paratyphi B biovar. Java	na	IA
CTS_990	Salmonella	enterica	enterica	Paratyphi B biovar. Java	1	NA	na	OPUS	Salmonella Paratyphi B biovar. Java	na	IA
CTS_990	Salmonella	enterica	enterica	Paratyphi B biovar. Java	1	XLD	Typical	OPUS	Salmonella Paratyphi B biovar. Java	na	IA
CTS_991	Salmonella	enterica	enterica	Paratyphi B biovar. Java	1	NA	na	CFX	Salmonella Paratyphi B biovar. Java	na	IA

CTS_991	Salmonella	enterica	enterica	Paratyphi B biovar. Java	1	XLD	Typical	CFX	Salmonella positive, Genovar ESGYM1	na	-	Repeat test
CTS_991	Salmonella	enterica	enterica	Paratyphi B biovar. Java	2	XLD	Typical	CFX	Salmonella positive, Genovar ESGYM1	na	inconclusive result	CTS_993 added
CTS_991	Salmonella	enterica	enterica	Paratyphi B biovar. Java	1	NA	na	OPUS	Salmonella Paratyphi B biovar. Java	na	IA	
CTS_991	Salmonella	enterica	enterica	Paratyphi B biovar. Java	1	XLD	Typical	OPUS	Salmonella Paratyphi B biovar. Java	na	IA	
CTS_992	Salmonella	enterica	enterica	Paratyphi B biovar. Java	1	NA	na	CFX	Salmonella Paratyphi B biovar. Java	IA	IA	
CTS_992	Salmonella	enterica	enterica	Paratyphi B biovar. Java	1	XLD	Typical	CFX	Salmonella Paratyphi B biovar. Java	IA	IA	
CTS_992	Salmonella	enterica	enterica	Paratyphi B biovar. Java	1	NA	na	OPUS	Salmonella Paratyphi B biovar. Java	IA	IA	
CTS_992	Salmonella	enterica	enterica	Paratyphi B biovar. Java	1	XLD	Typical	OPUS	Salmonella Paratyphi B biovar. Java	IA	IA	
CTS_993	Salmonella	enterica	enterica	Paratyphi B var. Java	1	NA	na	CFX	Salmonella Paratyphi B biovar. Java	na	IA	
CTS_993	Salmonella	enterica	enterica	Paratyphi B var. Java	1	XLD	Typical	CFX	Salmonella positive, Genovar EGR6J1	na	-	Repeat
CTS_993	Salmonella	enterica	enterica	Paratyphi B var. Java	2	XLD	Typical		Salmonella Paratyphi B biovar. Java	na	IA	
CTS_993	Salmonella	enterica	enterica	Paratyphi B var. Java	1	NA	na	OPUS	Salmonella Paratyphi B biovar. Java	na	IA	
CTS_993	Salmonella	enterica	enterica	Paratyphi B var. Java	1	XLD	Typical	OPUS	Salmonella Paratyphi B biovar. Java	na	IA	
CTS_994	Salmonella	enterica	enterica	Poona	1	NA	na	CFX	Salmonella Poona	na	IA	
CTS_994	Salmonella	enterica	enterica	Poona	1	XLD	Typical	CFX	Salmonella Poona	na	IA	
CTS_994	Salmonella	enterica	enterica	Poona	1	NA	na	OPUS	Salmonella Poona	na	IA	
CTS_994	Salmonella	enterica	enterica	Poona	1	XLD	Typical	OPUS	Salmonella Poona	na	IA	
CTS_995	Salmonella	enterica	enterica	Poona	1	NA	na	CFX	Salmonella positive, Genovar CSVJJ1	IA	inconclusive result	CTS_997 added
CTS_995	Salmonella	enterica	enterica	Poona	1	XLD	Typical	CFX	Salmonella positive, Genovar CSVJJ1	IA	inconclusive result	CTS_997 added
CTS_995	Salmonella	enterica	enterica	Poona	1	NA	na	OPUS	Salmonella positive, Genovar CSVJJ1	IA	inconclusive result	CTS_997 added

CTS_995	Salmonella	enterica	enterica	Poona	1	XLD	Typical	OPUS	Salmonella positive, Genovar CSVJ1	IA	inconclusive result	CTS_997 added
CTS_996	Salmonella	enterica	enterica	Poona	1	NA	na	CFX	Salmonella Eastbourne or Poona	IA	IA	A or B
CTS_996	Salmonella	enterica	enterica	Poona	1	XLD	Typical	CFX	Salmonella Eastbourne or Poona	IA	IA	A or B
CTS_996	Salmonella	enterica	enterica	Poona	1	NA	na	OPUS	Salmonella Eastbourne or Poona	IA	IA	A or B
CTS_996	Salmonella	enterica	enterica	Poona	1	XLD	Typical	OPUS	Salmonella Eastbourne or Poona	IA	IA	A or B
CTS_242	Salmonella	enterica	enterica	Poona	1	NA	na	CFX	Salmonella Poona	na	IA	
CTS_242	Salmonella	enterica	enterica	Poona	1	XLD	Typical	CFX	Salmonella Poona	na	IA	
CTS_242	Salmonella	enterica	enterica	Poona	1	NA	na	OPUS	Salmonella Poona	na	IA	
CTS_242	Salmonella	enterica	enterica	Poona	1	XLD	Typical	OPUS	Salmonella Poona	na	IA	
CTS_243	Salmonella	enterica	enterica	Poona	1	NA	na	CFX	Salmonella Muenster or Poona	na	IA	A or B
CTS_243	Salmonella	enterica	enterica	Poona	1	XLD	Typical	CFX	Salmonella Muenster or Poona	na	IA	A or B
CTS_243	Salmonella	enterica	enterica	Poona	1	NA	na	OPUS	Salmonella Muenster or Poona	na	IA	A or B
CTS_243	Salmonella	enterica	enterica	Poona	1	XLD	Typical	OPUS	Salmonella Muenster or Poona	na	IA	A or B
CTS_997	Salmonella	enterica	enterica	Poona	1	NA	na	CFX	Salmonella Poona	na	IA	
CTS_997	Salmonella	enterica	enterica	Poona	1	XLD	Typical	CFX	Salmonella Poona	na	IA	
CTS_997	Salmonella	enterica	enterica	Poona	1	NA	na	OPUS	Salmonella Poona	na	IA	
CTS_997	Salmonella	enterica	enterica	Poona	1	XLD	Typical	OPUS	Salmonella Poona	na	IA	
CTS_998	Salmonella	enterica	enterica	Putten	1	NA	na	CFX	Salmonella Putten	na	IA	
CTS_998	Salmonella	enterica	enterica	Putten	1	XLD	Typical	CFX	Salmonella Putten	na	IA	
CTS_998	Salmonella	enterica	enterica	Putten	1	NA	na	OPUS	Salmonella Putten	na	IA	
CTS_998	Salmonella	enterica	enterica	Putten	1	XLD	Typical	OPUS	Salmonella Putten	na	IA	
CTS_671	Salmonella	enterica	enterica	Putten	1	NA	na	CFX	Salmonella Putten	na	IA	
CTS_671	Salmonella	enterica	enterica	Putten	1	XLD	Typical	CFX	Salmonella Putten	na	IA	
CTS_671	Salmonella	enterica	enterica	Putten	1	NA	na	OPUS	Salmonella Putten	na	IA	
CTS_671	Salmonella	enterica	enterica	Putten	1	XLD	Typical	OPUS	Salmonella Putten	na	IA	
CTS_682	Salmonella	enterica	enterica	Putten	1	NA	na	CFX	Salmonella Putten	na	IA	
CTS_682	Salmonella	enterica	enterica	Putten	1	XLD	Typical	CFX	Salmonella Putten	na	IA	
CTS_682	Salmonella	enterica	enterica	Putten	1	NA	na	OPUS	Salmonella Putten	na	IA	

CTS_682	Salmonella	enterica	enterica	Putten	1	XLD	Typical	OPUS	Salmonella Putten	na	IA	
CTS_685	Salmonella	enterica	enterica	Putten	1	NA	na	CFX	Salmonella Putten	na	IA	
CTS_685	Salmonella	enterica	enterica	Putten	1	XLD	Typical	CFX	Salmonella Putten	na	IA	
CTS_685	Salmonella	enterica	enterica	Putten	1	NA	na	OPUS	Salmonella Putten	na	IA	
CTS_685	Salmonella	enterica	enterica	Putten	1	XLD	Typical	OPUS	Salmonella Putten	na	IA	
CTS_750	Salmonella	enterica	enterica	Putten	1	NA	na	CFX	Salmonella Putten	na	IA	
CTS_750	Salmonella	enterica	enterica	Putten	1	XLD	Typical	CFX	Salmonella Putten	na	IA	
CTS_750	Salmonella	enterica	enterica	Putten	1	NA	na	OPUS	Salmonella Putten	na	IA	
CTS_750	Salmonella	enterica	enterica	Putten	1	XLD	Typical	OPUS	Salmonella Putten	na	IA	
CTS_247	Salmonella	enterica	enterica	Reading	1	NA	na	CFX	Salmonella Reading	na	IA	
CTS_247	Salmonella	enterica	enterica	Reading	1	XLD	Typical	CFX	Salmonella Reading	na	IA	
CTS_247	Salmonella	enterica	enterica	Reading	1	NA	na	OPUS	Salmonella Reading	na	IA	
CTS_247	Salmonella	enterica	enterica	Reading	1	XLD	Typical	OPUS	Salmonella Reading	na	IA	
CTS_248	Salmonella	enterica	enterica	Reading	1	NA	na	CFX	Salmonella San Diego or Reading	na	IA	A or B
CTS_248	Salmonella	enterica	enterica	Reading	1	XLD	Typical	CFX	Salmonella San Diego or Reading	na	IA	A or B
CTS_248	Salmonella	enterica	enterica	Reading	1	NA	na	OPUS	Salmonella San Diego or Reading	na	IA	A or B
CTS_248	Salmonella	enterica	enterica	Reading	1	XLD	Typical	OPUS	Salmonella San Diego or Reading	na	IA	A or B
CTS_999	Salmonella	enterica	enterica	Reading	1	NA	na	CFX	Salmonella San Diego or Reading	na	IA	A or B
CTS_999	Salmonella	enterica	enterica	Reading	1	XLD	Typical	CFX	Salmonella San Diego or Reading	na	IA	A or B
CTS_999	Salmonella	enterica	enterica	Reading	1	NA	na	OPUS	Salmonella San Diego or Reading	na	IA	A or B
CTS_999	Salmonella	enterica	enterica	Reading	1	XLD	Typical	OPUS	Salmonella San Diego or Reading	na	IA	A or B
CTS_1000	Salmonella	enterica	enterica	Reading	1	NA	na	CFX	Salmonella Reading	IA	IA	
CTS_1000	Salmonella	enterica	enterica	Reading	1	XLD	Typical	CFX	Salmonella Reading	IA	IA	
CTS_1000	Salmonella	enterica	enterica	Reading	1	NA	na	OPUS	Salmonella Reading	IA	IA	
CTS_1000	Salmonella	enterica	enterica	Reading	1	XLD	Typical	OPUS	Salmonella Reading	IA	IA	
CTS_1001	Salmonella	enterica	enterica	Reading	1	NA	na	CFX	Salmonella Reading or Brandenburg or Salmonella Chester	IA	IA	A or B or C

CTS	Salmonella	enterica	enterica	Reading		XLD	Typical	CFX	Salmonella Reading or Brandenburg or Salmonella Chester	IA	IA	A or B or C
CTS_1001	Salmonella	enterica	enterica	Reading	1	NA	na	OPUS	Salmonella Chester	IA	ID	
CTS_1001	Salmonella	enterica	enterica	Reading	1	XLD	Typical	OPUS	Salmonella Chester	IA	ID	
CTS_1002	Salmonella	enterica	enterica	Rissen	1	NA	na	CFX	Salmonella Rissen	IA	IA	
CTS_1002	Salmonella	enterica	enterica	Rissen	1	XLD	Typical	CFX	Salmonella Rissen	IA	IA	
CTS_1002	Salmonella	enterica	enterica	Rissen	1	NA	na	OPUS	Salmonella Rissen	IA	IA	
CTS_1002	Salmonella	enterica	enterica	Rissen	1	XLD	Typical	OPUS	Salmonella Rissen	IA	IA	
CTS_1003	Salmonella	enterica	enterica	Rissen	1	NA	na	CFX	Salmonella Rissen	na	IA	
CTS_1003	Salmonella	enterica	enterica	Rissen	1	XLD	Typical	CFX	Salmonella Rissen	na	IA	
CTS_1003	Salmonella	enterica	enterica	Rissen	1	NA	na	OPUS	Salmonella Rissen	na	IA	
CTS_1003	Salmonella	enterica	enterica	Rissen	1	XLD	Typical	OPUS	Salmonella Rissen	na	IA	
CTS_249	Salmonella	enterica	enterica	Rissen	1	NA	na	CFX	Salmonella Rissen	IA	IA	
CTS_249	Salmonella	enterica	enterica	Rissen	1	XLD	Typical	CFX	Salmonella Rissen	IA	IA	
CTS_249	Salmonella	enterica	enterica	Rissen	1	NA	na	OPUS	Salmonella Rissen	IA	IA	
CTS_249	Salmonella	enterica	enterica	Rissen	1	XLD	Typical	OPUS	Salmonella Rissen	IA	IA	
CTS_251	Salmonella	enterica	enterica	Rissen	1	NA	na	CFX	Salmonella Rissen	na	IA	
CTS_251	Salmonella	enterica	enterica	Rissen	1	XLD	Typical	CFX	Salmonella Rissen	na	IA	
CTS_251	Salmonella	enterica	enterica	Rissen	1	NA	na	OPUS	Salmonella Rissen	na	IA	
CTS_251	Salmonella	enterica	enterica	Rissen	1	XLD	Typical	OPUS	Salmonella Rissen	na	IA	
CTS_253	Salmonella	enterica	enterica	Rissen	1	NA	na	CFX	Salmonella Rissen	na	IA	
CTS_253	Salmonella	enterica	enterica	Rissen	1	XLD	Typical	CFX	Salmonella Rissen	na	IA	
CTS_253	Salmonella	enterica	enterica	Rissen	1	NA	na	OPUS	Salmonella Rissen	na	IA	
CTS_253	Salmonella	enterica	enterica	Rissen	1	XLD	Typical	OPUS	Salmonella Rissen	na	IA	
CTS_1004	Salmonella	enterica	enterica	Saintpaul	1	NA	na	CFX	Salmonella Saintpaul	na	IA	
CTS_1004	Salmonella	enterica	enterica	Saintpaul	1	XLD	Typical	CFX	Salmonella Saintpaul	na	IA	
CTS_1004	Salmonella	enterica	enterica	Saintpaul	1	NA	na	OPUS	Salmonella Saintpaul	na	IA	
CTS_1004	Salmonella	enterica	enterica	Saintpaul	1	XLD	Typical	OPUS	Salmonella Saintpaul	na	IA	
CTS_254	Salmonella	enterica	enterica	Saintpaul	1	NA	na	CFX	Salmonella Saintpaul	IA	IA	
CTS_254	Salmonella	enterica	enterica	Saintpaul	1	XLD	Typical	CFX	Salmonella Saintpaul	IA	IA	
CTS_254	Salmonella	enterica	enterica	Saintpaul	1	NA	na	OPUS	Salmonella Saintpaul	IA	IA	
CTS_254	Salmonella	enterica	enterica	Saintpaul	1	XLD	Typical	OPUS	Salmonella Saintpaul	IA	IA	
CTS_255	Salmonella	enterica	enterica	Saintpaul	1	NA	na	CFX	Salmonella Saintpaul	IA	IA	
CTS_255	Salmonella	enterica	enterica	Saintpaul	1	XLD	Typical	CFX	Salmonella positive, Genovar ERPAT1	IA	-	Repeat test (typing)
CTS_255	Salmonella	enterica	enterica	Saintpaul	2	XLD	Typical	CFX	Salmonella Saintpaul	IA	IA	



CTS_255	Salmonella	enterica	enterica	Saintpaul	1	NA	na	OPUS	Salmonella Saintpaul	IA	IA
CTS_255	Salmonella	enterica	enterica	Saintpaul	1	XLD	Typical	OPUS	Salmonella Saintpaul	IA	IA
CTS_256	Salmonella	enterica	enterica	Saintpaul	1	NA	na	CFX	Salmonella Saintpaul	na	IA
CTS_256	Salmonella	enterica	enterica	Saintpaul	1	XLD	Typical	CFX	Salmonella Saintpaul	na	IA
CTS_256	Salmonella	enterica	enterica	Saintpaul	1	NA	na	OPUS	Salmonella Saintpaul	na	IA
CTS_256	Salmonella	enterica	enterica	Saintpaul	1	XLD	Typical	OPUS	Salmonella Saintpaul	na	IA
CTS_258	Salmonella	enterica	enterica	Saintpaul	1	NA	na	CFX	Salmonella Haifa or Saintpaul	na	IA A or B
CTS_258	Salmonella	enterica	enterica	Saintpaul	1	XLD	Typical	CFX	Salmonella Haifa or Saintpaul	na	IA A or B
CTS_258	Salmonella	enterica	enterica	Saintpaul	1	NA	na	OPUS	Salmonella Haifa or Saintpaul	na	IA A or B
CTS_258	Salmonella	enterica	enterica	Saintpaul	1	XLD	Typical	OPUS	Salmonella Haifa or Saintpaul	na	IA A or B
CTS_1005	Salmonella	enterica	enterica	Sandiego	1	NA	na	CFX	Salmonella positive, Genovar EXTTP1	IA	inconclusive result CTS_1008 added
CTS_1005	Salmonella	enterica	enterica	Sandiego	1	XLD	Typical	CFX	Salmonella positive, Genovar EHTTP1	IA	inconclusive result CTS_1008 added
CTS_1005	Salmonella	enterica	enterica	Sandiego	1	NA	na	OPUS	Salmonella positive, Genovar ESTTP1	IA	inconclusive result CTS_1008 added
CTS_1005	Salmonella	enterica	enterica	Sandiego	1	XLD	Typical	OPUS	Salmonella positive, Genovar ESTTP1	IA	inconclusive result CTS_1008 added
CTS_1006	Salmonella	enterica	enterica	Sandiego	1	NA	na	CFX	Salmonella Sandiego or Reading	IA	IA A or B
CTS_1006	Salmonella	enterica	enterica	Sandiego	1	XLD	Typical	CFX	Salmonella Sandiego or Reading	IA	IA A or B
CTS_1006	Salmonella	enterica	enterica	Sandiego	1	NA	na	OPUS	Salmonella Sandiego or Reading	IA	IA A or B
CTS_1006	Salmonella	enterica	enterica	Sandiego	1	XLD	Typical	OPUS	Salmonella Sandiego or Reading	IA	IA A or B
CTS_261	Salmonella	enterica	enterica	Sandiego	1	NA	na	CFX	Salmonella Sandiego or Reading	na	IA A or B
CTS_261	Salmonella	enterica	enterica	Sandiego	1	XLD	Typical	CFX	Salmonella Sandiego or Reading	na	IA A or B
CTS_261	Salmonella	enterica	enterica	Sandiego	1	NA	na	OPUS	Salmonella Sandiego or Reading	na	IA A or B

CTS_261	Salmonella	enterica	enterica	Sandiego	1	XLD	Typical	OPUS	Salmonella Sandiego or Reading	na	IA	A or B
CTS_263	Salmonella	enterica	enterica	Sandiego	1	NA	na	CFX	Salmonella Sandiego or Reading	na	IA	A or B
CTS_263	Salmonella	enterica	enterica	Sandiego	1	XLD	Typical	CFX	Salmonella Sandiego or Reading	na	IA	A or B
CTS_263	Salmonella	enterica	enterica	Sandiego	1	NA	na	OPUS	Salmonella Sandiego or Reading	na	IA	A or B
CTS_263	Salmonella	enterica	enterica	Sandiego	1	XLD	Typical	OPUS	Salmonella Sandiego or Reading	na	IA	A or B
CTS_1007	Salmonella	enterica	enterica	Sandiego	1	NA	na	CFX	Salmonella positive, Genovar EHQT1	na	inconclusive result	CTS_1006 added
CTS_1007	Salmonella	enterica	enterica	Sandiego	1	XLD	Typical	CFX	Salmonella positive, Genovar ESQT1	na	inconclusive result	CTS_1006 added
CTS_1007	Salmonella	enterica	enterica	Sandiego	1	NA	na	OPUS	Salmonella positive, Genovar ESQT1	na	inconclusive result	CTS_1006 added
CTS_1007	Salmonella	enterica	enterica	Sandiego	1	XLD	Typical	OPUS	Salmonella positive, Genovar ESQT1	na	inconclusive result	CTS_1006 added
CTS_1008	Salmonella	enterica	enterica	Sandiego	1	NA	na	CFX	Salmonella Sandiego	na	IA	
CTS_1008	Salmonella	enterica	enterica	Sandiego	1	XLD	Typical	CFX	Salmonella Sandiego	na	IA	
CTS_1008	Salmonella	enterica	enterica	Sandiego	1	NA	na	OPUS	Salmonella Sandiego	na	IA	
CTS_1008	Salmonella	enterica	enterica	Sandiego	1	XLD	Typical	OPUS	Salmonella Sandiego	na	IA	
CTS_1009	Salmonella	enterica	enterica	Sandiego	1	NA	na	CFX	Salmonella Sandiego	na	IA	
CTS_1009	Salmonella	enterica	enterica	Sandiego	1	XLD	Typical	CFX	Salmonella Sandiego	na	IA	
CTS_1009	Salmonella	enterica	enterica	Sandiego	1	NA	na	OPUS	Salmonella Sandiego	na	IA	
CTS_1009	Salmonella	enterica	enterica	Sandiego	1	XLD	Typical	OPUS	Salmonella Sandiego	na	IA	
CTS_1010	Salmonella	enterica	enterica	Schwarzengrund	1	NA	na	CFX	Salmonella Schwarzengrund	na	IA	
CTS_1010	Salmonella	enterica	enterica	Schwarzengrund	1	XLD	Typical	CFX	Salmonella Schwarzengrund	na	IA	
CTS_1010	Salmonella	enterica	enterica	Schwarzengrund	1	NA	na	OPUS	Salmonella Schwarzengrund	na	IA	
CTS_1010	Salmonella	enterica	enterica	Schwarzengrund	1	XLD	Typical	OPUS	Salmonella Schwarzengrund	na	IA	
CTS_1011	Salmonella	enterica	enterica	Schwarzengrund	1	NA	na	CFX	Salmonella Schwarzengrund	na	IA	

CTS_1011	Salmonella	enterica	enterica	Schwarzengrund	1	XLD	Typical	CFX	Salmonella Schwarzengrund	na	IA
CTS_1011	Salmonella	enterica	enterica	Schwarzengrund	1	NA	na	OPUS	Salmonella Schwarzengrund	na	IA
CTS_1011	Salmonella	enterica	enterica	Schwarzengrund	1	XLD	Typical	OPUS	Salmonella Schwarzengrund	na	IA
CTS_264	Salmonella	enterica	enterica	Schwarzengrund	1	NA	na	CFX	Salmonella Schwarzengrund	IA	IA
CTS_264	Salmonella	enterica	enterica	Schwarzengrund	1	XLD	Typical	CFX	Salmonella Schwarzengrund	IA	IA
CTS_264	Salmonella	enterica	enterica	Schwarzengrund	1	NA	na	OPUS	Salmonella Schwarzengrund	IA	IA
CTS_264	Salmonella	enterica	enterica	Schwarzengrund	1	XLD	Typical	OPUS	Salmonella Schwarzengrund	IA	IA
CTS_265	Salmonella	enterica	enterica	Schwarzengrund	1	NA	na	CFX	Salmonella Schwarzengrund	IA	IA
CTS_265	Salmonella	enterica	enterica	Schwarzengrund	1	XLD	Typical	CFX	Salmonella Schwarzengrund	IA	IA
CTS_265	Salmonella	enterica	enterica	Schwarzengrund	1	NA	na	OPUS	Salmonella Schwarzengrund	IA	IA
CTS_265	Salmonella	enterica	enterica	Schwarzengrund	1	XLD	Typical	OPUS	Salmonella Schwarzengrund	IA	IA
CTS_266	Salmonella	enterica	enterica	Schwarzengrund	1	NA	na	CFX	Salmonella Schwarzengrund	na	IA
CTS_266	Salmonella	enterica	enterica	Schwarzengrund	1	XLD	Typical	CFX	Salmonella Schwarzengrund	na	IA
CTS_266	Salmonella	enterica	enterica	Schwarzengrund	1	NA	na	OPUS	Salmonella Schwarzengrund	na	IA
CTS_266	Salmonella	enterica	enterica	Schwarzengrund	1	XLD	Typical	OPUS	Salmonella Schwarzengrund	na	IA
CTS_1012	Salmonella	enterica	enterica	Senftenberg	1	NA	na	CFX	Salmonella Senftenberg	na	IA
CTS_1012	Salmonella	enterica	enterica	Senftenberg	1	XLD	Typical	CFX	Salmonella positive, Genovar 4GJIM1	na	- Repeat
CTS_1012	Salmonella	enterica	enterica	Senftenberg	2	XLD	Typical	CFX	Salmonella Senftenberg	na	IA

CTS_1012	Salmonella	enterica	enterica	Senftenberg	1	NA	na	OPUS	Salmonella Senftenberg	na	IA
CTS_1012	Salmonella	enterica	enterica	Senftenberg	1	XLD	Typical	OPUS	Salmonella Senftenberg	na	IA
CTS_269	Salmonella	enterica	enterica	Senftenberg	1	NA	na	CFX	Salmonella positive, Genovar 4SJKM1	IA	- Repeat test (typing)
CTS_269	Salmonella	enterica	enterica	Senftenberg	2	NA	na	CFX	Salmonella Oranienburg or Senftenberg	IA	IA A or B
CTS_269	Salmonella	enterica	enterica	Senftenberg	1	XLD	Typical	CFX	Salmonella positive, Genovar 4SJKM1	IA	- Repeat test (typing)
CTS_269	Salmonella	enterica	enterica	Senftenberg	2	XLD	Typical	CFX	Salmonella Oranienburg or Senftenberg	IA	IA A or B
CTS_269	Salmonella	enterica	enterica	Senftenberg	1	NA	na	OPUS	Salmonella Oranienburg or Senftenberg	IA	IA A or B
CTS_269	Salmonella	enterica	enterica	Senftenberg	1	XLD	Typical	OPUS	Salmonella Oranienburg or Senftenberg	IA	IA A or B
CTS_270	Salmonella	enterica	enterica	Senftenberg	1	NA	na	CFX	Salmonella Oranienburg or Senftenberg	IA	IA A or B
CTS_270	Salmonella	enterica	enterica	Senftenberg	1	XLD	Typical	CFX	Salmonella Oranienburg or Senftenberg	IA	IA A or B
CTS_270	Salmonella	enterica	enterica	Senftenberg	1	NA	na	OPUS	Salmonella Oranienburg or Senftenberg	IA	IA A or B
CTS_270	Salmonella	enterica	enterica	Senftenberg	1	XLD	Typical	OPUS	Salmonella Oranienburg or Senftenberg	na	IA A or B
CTS_272	Salmonella	enterica	enterica	Senftenberg	1	NA	na	CFX	Salmonella Senftenberg	na	IA
CTS_272	Salmonella	enterica	enterica	Senftenberg	1	XLD	Typical	CFX	Salmonella Senftenberg	na	IA
CTS_272	Salmonella	enterica	enterica	Senftenberg	1	NA	na	OPUS	Salmonella Senftenberg	na	IA

CTS_272	Salmonella	enterica	enterica	Senftenberg	1	XLD	Typical	OPUS	Salmonella Senftenberg	na	IA
CTS_509	Salmonella	enterica	enterica	Senftenberg	1	NA	na	CFX	Salmonella positive, Genovar 4SGJM1	na	- Repeat test
CTS_509	Salmonella	enterica	enterica	Senftenberg	2	NA	na	CFX	Salmonella Oranienburg or Senftenberg	na	IA A or B
CTS_509	Salmonella	enterica	enterica	Senftenberg	1	XLD	Typical	CFX	Salmonella Oranienburg or Senftenberg	na	IA A or B
CTS_509	Salmonella	enterica	enterica	Senftenberg	1	NA	na	OPUS	Salmonella Oranienburg or Senftenberg	na	IA A or B
CTS_509	Salmonella	enterica	enterica	Senftenberg	1	XLD	Typical	OPUS	Salmonella Oranienburg or Senftenberg	na	IA A or B
CTS_611	Salmonella	enterica	enterica	Soerenga	1	NA	na	CFX	Salmonella Soerenga	na	IA
CTS_611	Salmonella	enterica	enterica	Soerenga	1	XLD	Typical	CFX	Salmonella Soerenga	na	IA
CTS_611	Salmonella	enterica	enterica	Soerenga	1	NA	na	OPUS	Salmonella Soerenga	na	IA
CTS_611	Salmonella	enterica	enterica	Soerenga	1	XLD	Typical	OPUS	Salmonella Soerenga	na	IA
CTS_645	Salmonella	enterica	enterica	Soerenga	1	NA	na	CFX	Salmonella Soerenga	na	IA
CTS_645	Salmonella	enterica	enterica	Soerenga	1	XLD	Typical	CFX	Salmonella Soerenga	na	IA
CTS_645	Salmonella	enterica	enterica	Soerenga	1	NA	na	OPUS	Salmonella Soerenga	na	IA
CTS_645	Salmonella	enterica	enterica	Soerenga	1	XLD	Typical	OPUS	Salmonella Soerenga	na	IA
CTS_782	Salmonella	enterica	enterica	Soerenga	1	NA	na	CFX	Salmonella Soerenga	na	IA
CTS_782	Salmonella	enterica	enterica	Soerenga	1	XLD	Typical	CFX	Salmonella Soerenga	na	IA
CTS_782	Salmonella	enterica	enterica	Soerenga	1	NA	na	OPUS	Salmonella Soerenga	na	IA
CTS_782	Salmonella	enterica	enterica	Soerenga	1	XLD	Typical	OPUS	Salmonella Soerenga	na	IA
CTS_794	Salmonella	enterica	enterica	Soerenga	1	NA	na	CFX	Salmonella Soerenga	na	IA
CTS_794	Salmonella	enterica	enterica	Soerenga	1	XLD	Typical	CFX	Salmonella Soerenga	na	IA
CTS_794	Salmonella	enterica	enterica	Soerenga	1	NA	na	OPUS	Salmonella Soerenga	na	IA
CTS_794	Salmonella	enterica	enterica	Soerenga	1	XLD	Typical	OPUS	Salmonella Soerenga	na	IA
CTS_1013	Salmonella	enterica	enterica	Soerenga	1	NA	na	CFX	Salmonella Soerenga	na	IA
CTS_1013	Salmonella	enterica	enterica	Soerenga	1	XLD	Typical	CFX	Salmonella Soerenga	na	IA
CTS_1013	Salmonella	enterica	enterica	Soerenga	1	NA	na	OPUS	Salmonella positive, Genovar WSTBP1	na	- Repeat test
CTS_1013	Salmonella	enterica	enterica	Soerenga	2	NA	na	OPUS	Salmonella Soerenga	na	IA

CTS_1013	Salmonella	enterica	enterica	Soerenga	1	XLD	Typical	OPUS	Salmonella Soerenga	na	IA
CTS_1014	Salmonella	enterica	enterica	Stanley	1	NA	na	CFX	Salmonella Stanley	IA	IA
CTS_1014	Salmonella	enterica	enterica	Stanley	1	XLD	Typical	CFX	Salmonella Stanley	IA	IA
CTS_1014	Salmonella	enterica	enterica	Stanley	1	NA	na	OPUS	Salmonella Stanley	IA	IA
CTS_1014	Salmonella	enterica	enterica	Stanley	1	XLD	Typical	OPUS	Salmonella Stanley	IA	IA
CTS_1015	Salmonella	enterica	enterica	Stanley	1	NA	na	CFX	Salmonella Stanley	IA	IA
CTS_1015	Salmonella	enterica	enterica	Stanley	1	XLD	Typical	CFX	Salmonella Stanley	IA	IA
CTS_1015	Salmonella	enterica	enterica	Stanley	1	NA	na	OPUS	Salmonella Stanley	IA	IA
CTS_1015	Salmonella	enterica	enterica	Stanley	1	XLD	Typical	OPUS	Salmonella Stanley	IA	IA
CTS_277	Salmonella	enterica	enterica	Stanley	1	NA	na	CFX	Salmonella Stanley	na	IA
CTS_277	Salmonella	enterica	enterica	Stanley	1	XLD	Typical	CFX	Salmonella Stanley	na	IA
CTS_277	Salmonella	enterica	enterica	Stanley	1	NA	na	OPUS	Salmonella Stanley	na	IA
CTS_277	Salmonella	enterica	enterica	Stanley	1	XLD	Typical	OPUS	Salmonella Stanley	na	IA
CTS_278	Salmonella	enterica	enterica	Stanley	1	NA	na	CFX	Salmonella Stanley	na	IA
CTS_278	Salmonella	enterica	enterica	Stanley	1	XLD	Typical	CFX	Salmonella Stanley	na	IA
CTS_278	Salmonella	enterica	enterica	Stanley	1	NA	na	OPUS	Salmonella Stanley	na	IA
CTS_278	Salmonella	enterica	enterica	Stanley	1	XLD	Typical	OPUS	Salmonella positive, Genovar WXRPP1	na	- Repeat test
CTS_278	Salmonella	enterica	enterica	Stanley	2	XLD	Typical	OPUS	Reaction not OK	na	Inconclusive result CTS_502 added
CTS_502	Salmonella	enterica	enterica	Stanley	1	NA	na	CFX	Salmonella Stanley	na	IA
CTS_502	Salmonella	enterica	enterica	Stanley	1	XLD	Typical	CFX	Salmonella Stanley	na	IA
CTS_502	Salmonella	enterica	enterica	Stanley	1	NA	na	OPUS	Salmonella Stanley	na	IA
CTS_502	Salmonella	enterica	enterica	Stanley	1	XLD	Typical	OPUS	Salmonella Stanley	na	IA
CTS_1016	Salmonella	enterica	enterica	Stanley	1	NA	na	CFX	Salmonella Stanley	na	IA
CTS_1016	Salmonella	enterica	enterica	Stanley	1	XLD	Typical	CFX	Salmonella Stanley	na	IA
CTS_1016	Salmonella	enterica	enterica	Stanley	1	NA	na	OPUS	Salmonella Stanley	na	IA
CTS_1016	Salmonella	enterica	enterica	Stanley	1	XLD	Typical	OPUS	Salmonella Stanley	na	IA
CTS_644	Salmonella	enterica	enterica	Taksony	1	NA	na	CFX	Salmonella Taksony	na	IA
CTS_644	Salmonella	enterica	enterica	Taksony	1	XLD	Typical	CFX	Salmonella Taksony	na	IA
CTS_644	Salmonella	enterica	enterica	Taksony	1	NA	na	OPUS	Salmonella Taksony	na	IA
CTS_644	Salmonella	enterica	enterica	Taksony	1	XLD	Typical	OPUS	Salmonella Taksony	na	IA
CTS_680	Salmonella	enterica	enterica	Taksony	1	NA	na	CFX	Salmonella Taksony	na	IA
CTS_680	Salmonella	enterica	enterica	Taksony	1	XLD	Typical	CFX	Salmonella Taksony	na	IA
CTS_680	Salmonella	enterica	enterica	Taksony	1	NA	na	OPUS	Salmonella Taksony	na	IA
CTS_680	Salmonella	enterica	enterica	Taksony	1	XLD	Typical	OPUS	Salmonella Taksony	na	IA
CTS_730	Salmonella	enterica	enterica	Taksony	1	NA	na	CFX	Salmonella Taksony	na	IA



CTS_730	Salmonella	enterica	enterica	Taksony	1	XLD	Typical	CFX	Salmonella Taksony	na	IA
CTS_730	Salmonella	enterica	enterica	Taksony	1	NA	na	OPUS	Salmonella Taksony	na	IA
CTS_730	Salmonella	enterica	enterica	Taksony	1	XLD	Typical	OPUS	Salmonella Taksony	na	IA
CTS_770	Salmonella	enterica	enterica	Taksony	1	NA	na	CFX	Salmonella Taksony	na	IA
CTS_770	Salmonella	enterica	enterica	Taksony	1	XLD	Typical	CFX	Salmonella Taksony	na	IA
CTS_770	Salmonella	enterica	enterica	Taksony	1	NA	na	OPUS	Salmonella Taksony	na	IA
CTS_770	Salmonella	enterica	enterica	Taksony	1	XLD	Typical	OPUS	Salmonella Taksony	na	IA
CTS_798	Salmonella	enterica	enterica	Taksony	1	NA	na	CFX	Salmonella Taksony	na	IA
CTS_798	Salmonella	enterica	enterica	Taksony	1	XLD	Typical	CFX	Salmonella Taksony	na	IA
CTS_798	Salmonella	enterica	enterica	Taksony	1	NA	na	OPUS	Salmonella Taksony	na	IA
CTS_798	Salmonella	enterica	enterica	Taksony	1	XLD	Typical	OPUS	Salmonella Taksony	na	IA
CTS_1017	Salmonella	enterica	enterica	Tennessee	1	NA	na	CFX	Salmonella Tennessee	na	IA
CTS_1017	Salmonella	enterica	enterica	Tennessee	1	XLD	Typical	CFX	Salmonella Tennessee	na	IA
CTS_1017	Salmonella	enterica	enterica	Tennessee	1	NA	na	OPUS	Salmonella Tennessee	na	IA
CTS_1017	Salmonella	enterica	enterica	Tennessee	1	XLD	Typical	OPUS	Salmonella positive, Genovar 4HWJP1	na	- Repeat test
CTS_1017	Salmonella	enterica	enterica	Tennessee	2	XLD	Typical	OPUS	Salmonella Tennessee	na	IA
CTS_1018	Salmonella	enterica	enterica	Tennessee	1	NA	na	CFX	Salmonella Tennessee	na	IA
CTS_1018	Salmonella	enterica	enterica	Tennessee	1	XLD	Typical	CFX	Salmonella Tennessee	na	IA
CTS_1018	Salmonella	enterica	enterica	Tennessee	1	NA	na	OPUS	Salmonella Tennessee	na	IA
CTS_1018	Salmonella	enterica	enterica	Tennessee	1	XLD	Typical	OPUS	Salmonella Tennessee	na	IA
CTS_279	Salmonella	enterica	enterica	Tennessee	1	NA	na	CFX	Salmonella Tennessee	IA	IA
CTS_279	Salmonella	enterica	enterica	Tennessee	1	XLD	Typical	CFX	Salmonella Tennessee	IA	IA
CTS_279	Salmonella	enterica	enterica	Tennessee	1	NA	na	OPUS	Salmonella Tennessee	IA	IA
CTS_279	Salmonella	enterica	enterica	Tennessee	1	XLD	Typical	OPUS	Salmonella Tennessee	IA	IA
CTS_280	Salmonella	enterica	enterica	Tennessee	1	NA	na	CFX	Salmonella Tennessee	IA	IA
CTS_280	Salmonella	enterica	enterica	Tennessee	1	XLD	Typical	CFX	Salmonella Tennessee	IA	IA
CTS_280	Salmonella	enterica	enterica	Tennessee	1	NA	na	OPUS	Salmonella Tennessee	IA	IA
CTS_280	Salmonella	enterica	enterica	Tennessee	1	XLD	Typical	OPUS	Salmonella Tennessee	IA	IA
CTS_283	Salmonella	enterica	enterica	Tennessee	1	NA	na	CFX	Salmonella Tennessee	na	IA
CTS_283	Salmonella	enterica	enterica	Tennessee	1	XLD	Typical	CFX	Salmonella Tennessee	na	IA
CTS_283	Salmonella	enterica	enterica	Tennessee	1	NA	na	OPUS	Salmonella Tennessee	na	IA
CTS_283	Salmonella	enterica	enterica	Tennessee	1	XLD	Typical	OPUS	Salmonella Tennessee	na	IA
CTS_1019	Salmonella	enterica	enterica	Thompson	1	NA	na	CFX	Salmonella Thompson	IA	IA
CTS_1019	Salmonella	enterica	enterica	Thompson	1	XLD	Typical	CFX	Salmonella Thompson	IA	IA
CTS_1019	Salmonella	enterica	enterica	Thompson	1	NA	na	OPUS	Salmonella Thompson	IA	IA
CTS_1019	Salmonella	enterica	enterica	Thompson	1	XLD	Typical	OPUS	Salmonella Thompson	IA	IA

CTS_285	Salmonella	enterica	enterica	Thompson	1	NA	na	CFX	Salmonella Thompson	IA	IA
CTS_285	Salmonella	enterica	enterica	Thompson	1	XLD	Typical	CFX	Salmonella Thompson	IA	IA
CTS_285	Salmonella	enterica	enterica	Thompson	1	NA	na	OPUS	Salmonella Thompson	IA	IA
CTS_285	Salmonella	enterica	enterica	Thompson	1	XLD	Typical	OPUS	Salmonella Thompson	IA	IA
CTS_286	Salmonella	enterica	enterica	Thompson	1	NA	na	CFX	Salmonella Thompson	na	IA
CTS_286	Salmonella	enterica	enterica	Thompson	1	XLD	Typical	CFX	Salmonella Thompson	na	IA
CTS_286	Salmonella	enterica	enterica	Thompson	1	NA	na	OPUS	Salmonella Thompson	na	IA
CTS_286	Salmonella	enterica	enterica	Thompson	1	XLD	Typical	OPUS	Salmonella Thompson	na	IA
CTS_287	Salmonella	enterica	enterica	Thompson	1	NA	na	CFX	Salmonella Thompson	na	IA
CTS_287	Salmonella	enterica	enterica	Thompson	1	XLD	Typical	CFX	Salmonella Thompson	na	IA
CTS_287	Salmonella	enterica	enterica	Thompson	1	NA	na	OPUS	Salmonella Thompson	na	IA
CTS_287	Salmonella	enterica	enterica	Thompson	1	XLD	Typical	OPUS	Salmonella Thompson	na	IA
CTS_288	Salmonella	enterica	enterica	Thompson	1	NA	na	CFX	Salmonella Thompson	na	IA
CTS_288	Salmonella	enterica	enterica	Thompson	1	XLD	Typical	CFX	Salmonella Thompson	na	IA
CTS_288	Salmonella	enterica	enterica	Thompson	1	NA	na	OPUS	Salmonella Thompson	na	IA
CTS_288	Salmonella	enterica	enterica	Thompson	1	XLD	Typical	OPUS	Salmonella Thompson	na	IA
CTS_1020	Salmonella	enterica	enterica	Typhimurium	1	NA	na	CFX	Salmonella Typhimurium	IA	IA
CTS_1020	Salmonella	enterica	enterica	Typhimurium	1	XLD	Typical	CFX	Salmonella Typhimurium	IA	IA
CTS_1020	Salmonella	enterica	enterica	Typhimurium	1	NA	na	OPUS	Salmonella Typhimurium	IA	IA
CTS_1020	Salmonella	enterica	enterica	Typhimurium	1	XLD	Typical	OPUS	Salmonella Typhimurium	IA	IA
CTS_289	Salmonella	enterica	enterica	Typhimurium	1	NA	na	CFX	Salmonella Typhimurium	IA	IA
CTS_289	Salmonella	enterica	enterica	Typhimurium	1	XLD	Typical	CFX	Salmonella Typhimurium	IA	IA
CTS_289	Salmonella	enterica	enterica	Typhimurium	1	NA	na	OPUS	Salmonella Typhimurium	IA	IA
CTS_289	Salmonella	enterica	enterica	Typhimurium	1	XLD	Typical	OPUS	Salmonella Typhimurium	IA	IA
CTS_291	Salmonella	enterica	enterica	Typhimurium	1	NA	na	CFX	Salmonella Typhimurium	IA	IA
CTS_291	Salmonella	enterica	enterica	Typhimurium	1	XLD	Typical	CFX	Salmonella Typhimurium	IA	IA



CTS_291	Salmonella	enterica	enterica	Typhimurium	1	NA	na	OPUS	Salmonella Typhimurium	IA	IA
CTS_291	Salmonella	enterica	enterica	Typhimurium	1	XLD	Typical	OPUS	Salmonella Typhimurium	IA	IA
CTS_292	Salmonella	enterica	enterica	Typhimurium	1	NA	na	CFX	Salmonella Typhimurium	na	IA
CTS_292	Salmonella	enterica	enterica	Typhimurium	1	XLD	Typical	CFX	Salmonella Typhimurium	na	IA
CTS_292	Salmonella	enterica	enterica	Typhimurium	1	NA	na	OPUS	Salmonella Typhimurium	na	IA
CTS_292	Salmonella	enterica	enterica	Typhimurium	1	XLD	Typical	OPUS	Salmonella Typhimurium	na	IA
CTS_293	Salmonella	enterica	enterica	Typhimurium	1	NA	na	CFX	Salmonella Typhimurium	na	IA
CTS_293	Salmonella	enterica	enterica	Typhimurium	1	XLD	Typical	CFX	Salmonella Typhimurium	na	IA
CTS_293	Salmonella	enterica	enterica	Typhimurium	1	NA	na	OPUS	Salmonella Typhimurium	na	IA
CTS_293	Salmonella	enterica	enterica	Typhimurium	1	XLD	Typical	OPUS	Salmonella Typhimurium	na	IA
CTS_1021	Salmonella	enterica	enterica	Uganda	1	NA	na	CFX	Salmonella Uganda	IA	IA
CTS_1021	Salmonella	enterica	enterica	Uganda	1	XLD	Typical	CFX	Salmonella Uganda	IA	IA
CTS_1021	Salmonella	enterica	enterica	Uganda	1	NA	na	OPUS	Salmonella Uganda	IA	IA
CTS_1021	Salmonella	enterica	enterica	Uganda	1	XLD	Typical	Opus	Salmonella Uganda	IA	IA
CTS_295	Salmonella	enterica	enterica	Uganda	1	NA	na	CFX	Salmonella Uganda	IA	IA
CTS_295	Salmonella	enterica	enterica	Uganda	1	XLD	Typical	CFX	Salmonella Uganda	IA	IA
CTS_295	Salmonella	enterica	enterica	Uganda	1	NA	na	OPUS	Salmonella Uganda	IA	IA
CTS_295	Salmonella	enterica	enterica	Uganda	1	XLD	Typical	OPUS	Salmonella Uganda	IA	IA
CTS_296	Salmonella	enterica	enterica	Uganda	1	NA	na	CFX	Salmonella Uganda	IA	IA
CTS_296	Salmonella	enterica	enterica	Uganda	1	XLD	Typical	CFX	Salmonella Uganda	IA	IA
CTS_296	Salmonella	enterica	enterica	Uganda	1	NA	na	OPUS	Salmonella Uganda	IA	IA
CTS_296	Salmonella	enterica	enterica	Uganda	1	XLD	Typical	OPUS	Salmonella Uganda	IA	IA
CTS_297	Salmonella	enterica	enterica	Uganda	1	NA	na	CFX	Salmonella Uganda	IA	IA
CTS_297	Salmonella	enterica	enterica	Uganda	1	XLD	Typical	CFX	Salmonella Positive, inconclusive typing result	IA	- Repeat test (typing)
CTS_297	Salmonella	enterica	enterica	Uganda	2	XLD	Typical	CFX	Salmonella Uganda	IA	IA

CTS_297	Salmonella	enterica	enterica	Uganda	1	NA	na	OPUS	Salmonella Uganda	IA	IA
CTS_297	Salmonella	enterica	enterica	Uganda	1	XLD	Typical	OPUS	Salmonella Uganda	IA	IA
CTS_1022	Salmonella	enterica	enterica	Uganda	1	NA	na	CFX	Salmonella Uganda	na	IA
CTS_1022	Salmonella	enterica	enterica	Uganda	1	XLD	Typical	CFX	Salmonella Uganda	na	IA
CTS_1022	Salmonella	enterica	enterica	Uganda	1	NA	na	OPUS	Salmonella Uganda	na	IA
CTS_1022	Salmonella	enterica	enterica	Uganda	1	XLD	Typical	Opus	Salmonella Uganda	na	IA
CTS_1023	Salmonella	enterica	enterica	Urbana	1	NA	na	CFX	Salmonella Johannesburg or Urbana	na	IA A or B
CTS_1023	Salmonella	enterica	enterica	Urbana	1	XLD	Typical	CFX	Salmonella Johannesburg or Urbana	na	IA A or B
CTS_1023	Salmonella	enterica	enterica	Urbana	1	NA	na	OPUS	Salmonella Johannesburg or Urbana	na	IA A or B
CTS_1023	Salmonella	enterica	enterica	Urbana	1	XLD	Typical	OPUS	Salmonella Johannesburg or Urbana	na	IA A or B
CTS_642	Salmonella	enterica	enterica	Urbana	1	NA	na	CFX	Salmonella Johannesburg or Urbana	na	IA A or B
CTS_642	Salmonella	enterica	enterica	Urbana	1	XLD	Typical	CFX	Salmonella Johannesburg or Urbana	na	IA A or B
CTS_642	Salmonella	enterica	enterica	Urbana	1	NA	na	OPUS	Salmonella Johannesburg or Urbana	na	IA A or B
CTS_642	Salmonella	enterica	enterica	Urbana	1	XLD	Typical	OPUS	Salmonella Johannesburg or Urbana	na	IA A or B
CTS_698	Salmonella	enterica	enterica	Urbana	1	NA	na	CFX	Salmonella Johannesburg or Urbana	na	IA A or B
CTS_698	Salmonella	enterica	enterica	Urbana	1	XLD	Typical	CFX	Salmonella Johannesburg or Urbana	na	IA A or B

CTS_698	Salmonella enterica enterica Urbana	1	NA na OPUS	Salmonella Johannesburg or Urbana	na IA A or B
CTS_698	Salmonella enterica enterica Urbana	1	XLD Typical OPUS	Salmonella Johannesburg or Urbana	na IA A or B
CTS_733	Salmonella enterica enterica Urbana	1	NA na CFX	Salmonella Johannesburg or Urbana	na IA A or B
CTS_733	Salmonella enterica enterica Urbana	1	XLD Typical CFX	Salmonella Johannesburg or Urbana	na IA A or B
CTS_733	Salmonella enterica enterica Urbana	1	NA na OPUS	Salmonella Johannesburg or Urbana	na IA A or B
CTS_733	Salmonella enterica enterica Urbana	1	XLD Typical OPUS	Salmonella Johannesburg or Urbana	na IA A or B
CTS_791	Salmonella enterica enterica Urbana	1	NA na CFX	Salmonella Johannesburg or Urbana	na IA A or B
CTS_791	Salmonella enterica enterica Urbana	1	XLD Typical CFX	Salmonella Johannesburg or Urbana	na IA A or B
CTS_791	Salmonella enterica enterica Urbana	1	NA na OPUS	Salmonella Johannesburg or Urbana	na IA A or B
CTS_791	Salmonella enterica enterica Urbana	1	XLD Typical OPUS	Salmonella Johannesburg or Urbana	na IA A or B
CTS_1024	Salmonella enterica enterica Virchow	1	NA CFX	Salmonella Virchow	IA IA
CTS_1024	Salmonella enterica enterica Virchow	1	XLD CFX	Salmonella Virchow	IA IA
CTS_1024	Salmonella enterica enterica Virchow	1	NA OPUS	Salmonella Virchow	IA IA
CTS_1024	Salmonella enterica enterica Virchow	1	XLD OPUS	Salmonella positive, Genovar CSRT1	IA - Repeat
CTS_1024	Salmonella enterica enterica Virchow	2	XLD OPUS	Salmonella Virchow	IA IA
CTS_1025	Salmonella enterica enterica Virchow	1	NA CFX	Salmonella Virchow	na IA

CTS_1025	Salmonella	enterica	enterica	Virchow	1	XLD	CFX	Salmonella Virchow	na	IA
CTS_1025	Salmonella	enterica	enterica	Virchow	1	NA	OPUS	Salmonella Virchow	na	IA
CTS_1025	Salmonella	enterica	enterica	Virchow	1	XLD	OPUS	Salmonella Virchow	na	IA
CTS_299	Salmonella	enterica	enterica	Virchow	1	NA	na	CFX	Salmonella Virchow	IA
CTS_299	Salmonella	enterica	enterica	Virchow	1	XLD	Typical	CFX	Salmonella Virchow	IA
CTS_299	Salmonella	enterica	enterica	Virchow	1	NA	na	OPUS	Salmonella Virchow	IA
CTS_299	Salmonella	enterica	enterica	Virchow	1	XLD	Typical	OPUS	Salmonella Virchow	IA
CTS_302	Salmonella	enterica	enterica	Virchow	1	NA	na	CFX	Salmonella Virchow	na
CTS_302	Salmonella	enterica	enterica	Virchow	1	XLD	Typical	CFX	Salmonella Virchow	na
CTS_302	Salmonella	enterica	enterica	Virchow	1	NA	na	OPUS	Salmonella Virchow	na
CTS_302	Salmonella	enterica	enterica	Virchow	1	XLD	Typical	OPUS	Salmonella Virchow	na
CTS_303	Salmonella	enterica	enterica	Virchow	1	NA	na	CFX	Salmonella Virchow	na
CTS_303	Salmonella	enterica	enterica	Virchow	1	XLD	Typical	CFX	Salmonella Virchow	na
CTS_303	Salmonella	enterica	enterica	Virchow	1	NA	na	OPUS	Salmonella Virchow	na
CTS_303	Salmonella	enterica	enterica	Virchow	1	XLD	Typical	OPUS	Salmonella Virchow	na
CTS_1026	Salmonella	enterica	enterica	Weltevreden	1	NA	na	CFX	Salmonella Weltevreden	na
CTS_1026	Salmonella	enterica	enterica	Weltevreden	1	XLD	Typical	CFX	Salmonella Weltevreden	na
CTS_1026	Salmonella	enterica	enterica	Weltevreden	1	NA	na	OPUS	Salmonella Weltevreden	na
CTS_1026	Salmonella	enterica	enterica	Weltevreden	1	XLD	Typical	OPUS	Salmonella Weltevreden	na
CTS_1027	Salmonella	enterica	enterica	Weltevreden	1	NA	na	CFX	Salmonella Weltevreden	na
CTS_1027	Salmonella	enterica	enterica	Weltevreden	1	XLD	Typical	CFX	Salmonella Weltevreden	na
CTS_1027	Salmonella	enterica	enterica	Weltevreden	1	NA	na	OPUS	Salmonella Weltevreden	na
CTS_1027	Salmonella	enterica	enterica	Weltevreden	1	XLD	Typical	OPUS	Salmonella positive, Genovar CRRTP1	na - Repeat
CTS_1027	Salmonella	enterica	enterica	Weltevreden	2	XLD	Typical	OPUS	Salmonella positive, Genovar CRRTP1	na inconclusive result CTS_1028 added
CTS_707	Salmonella	enterica	enterica	Weltevreden	1	NA	na	CFX	Salmonella Weltevreden	na
CTS_707	Salmonella	enterica	enterica	Weltevreden	1	XLD	Typical	CFX	Salmonella Weltevreden	na

CTS_707	Salmonella	enterica	enterica	Weltevreden	1	NA	na	OPUS	Salmonella Weltevreden	na	IA
CTS_707	Salmonella	enterica	enterica	Weltevreden	1	XLD	Typical	OPUS	Salmonella Weltevreden	na	IA
CTS_747	Salmonella	enterica	enterica	Weltevreden	1	NA	na	CFX	Salmonella Weltevreden	na	IA
CTS_747	Salmonella	enterica	enterica	Weltevreden	1	XLD	Typical	CFX	Salmonella Weltevreden	na	IA
CTS_747	Salmonella	enterica	enterica	Weltevreden	1	NA	na	OPUS	Salmonella Weltevreden	na	IA
CTS_747	Salmonella	enterica	enterica	Weltevreden	1	XLD	Typical	OPUS	Salmonella Weltevreden	na	IA
CTS_758	Salmonella	enterica	enterica	Weltevreden	1	NA	na	CFX	Salmonella Weltevreden	na	IA
CTS_758	Salmonella	enterica	enterica	Weltevreden	1	XLD	Typical	CFX	Salmonella Weltevreden	na	IA
CTS_758	Salmonella	enterica	enterica	Weltevreden	1	NA	na	OPUS	Salmonella Weltevreden	na	IA
CTS_758	Salmonella	enterica	enterica	Weltevreden	1	XLD	Typical	OPUS	Salmonella Weltevreden	na	IA
CTS_1028	Salmonella	enterica	enterica	Weltevreden	1	NA	na	CFX	Salmonella Weltevreden	na	IA
CTS_1028	Salmonella	enterica	enterica	Weltevreden	1	XLD	Typical	CFX	Salmonella Weltevreden	na	IA
CTS_1028	Salmonella	enterica	enterica	Weltevreden	1	NA	na	OPUS	Salmonella Weltevreden	na	IA
CTS_1028	Salmonella	enterica	enterica	Weltevreden	1	XLD	Typical	OPUS	Salmonella Weltevreden	na	IA
CTS_305	Salmonella	enterica	enterica	Worthington	1	NA	na	CFX	Salmonella Worthington	IA	IA
CTS_305	Salmonella	enterica	enterica	Worthington	1	XLD	Typical	CFX	Salmonella Worthington	IA	IA
CTS_305	Salmonella	enterica	enterica	Worthington	1	NA	na	OPUS	Salmonella Worthington	IA	IA
CTS_305	Salmonella	enterica	enterica	Worthington	1	XLD	Typical	OPUS	Salmonella Worthington	IA	IA

CTS_306	Salmonella	enterica	enterica	Worthington	1	NA	na	CFX	Salmonella Worthington	IA	IA
CTS_306	Salmonella	enterica	enterica	Worthington	1	XLD	Typical	CFX	Salmonella Worthington	IA	IA
CTS_306	Salmonella	enterica	enterica	Worthington	1	NA	na	OPUS	Salmonella Worthington	IA	IA
CTS_306	Salmonella	enterica	enterica	Worthington	1	XLD	Typical	OPUS	Salmonella Worthington	IA	IA
CTS_307	Salmonella	enterica	enterica	Worthington	1	NA	na	CFX	Salmonella Worthington	IA	IA
CTS_307	Salmonella	enterica	enterica	Worthington	1	XLD	Typical	CFX	Salmonella Worthington	IA	IA
CTS_307	Salmonella	enterica	enterica	Worthington	1	NA	na	OPUS	Salmonella Worthington	IA	IA
CTS_307	Salmonella	enterica	enterica	Worthington	1	XLD	Typical	OPUS	Salmonella Worthington	IA	IA
CTS_308	Salmonella	enterica	enterica	Worthington	1	NA	na	CFX	Salmonella Worthington	na	IA
CTS_308	Salmonella	enterica	enterica	Worthington	1	XLD	Typical	CFX	Salmonella Worthington	na	IA
CTS_308	Salmonella	enterica	enterica	Worthington	1	NA	na	OPUS	Salmonella Worthington	na	IA
CTS_308	Salmonella	enterica	enterica	Worthington	1	XLD	Typical	OPUS	Salmonella Worthington	na	IA
CTS_1029	Salmonella	enterica	enterica	Worthington	1	NA	na	CFX	Salmonella Worthington	IA	IA
CTS_1029	Salmonella	enterica	enterica	Worthington	1	XLD	Typical	CFX	Salmonella Worthington	IA	IA
CTS_1029	Salmonella	enterica	enterica	Worthington	1	NA	na	OPUS	Salmonella Worthington	IA	IA
CTS_1029	Salmonella	enterica	enterica	Worthington	1	XLD	Typical	Opus	Salmonella Worthington	IA	IA
CTS_310	Salmonella	enterica	enterica	Yoruba	1	NA	na	CFX	Salmonella Yoruba	IA	IA
CTS_310	Salmonella	enterica	enterica	Yoruba	1	XLD	Typical	CFX	Salmonella Yoruba	IA	IA
CTS_310	Salmonella	enterica	enterica	Yoruba	1	NA	na	OPUS	Salmonella Yoruba	IA	IA
CTS_310	Salmonella	enterica	enterica	Yoruba	1	XLD	Typical	OPUS	Salmonella Yoruba	IA	IA
CTS_311	Salmonella	enterica	enterica	Yoruba	1	NA	na	CFX	Salmonella Yoruba	na	IA

CTS_311	Salmonella	enterica	enterica	Yoruba	1	XLD	Typical	CFX	Salmonella Yoruba	na	IA
CTS_311	Salmonella	enterica	enterica	Yoruba	1	NA	na	OPUS	Salmonella Yoruba	na	IA
CTS_311	Salmonella	enterica	enterica	Yoruba	2	NA	na	OPUS	Salmonella Yoruba	na	IA
CTS_311	Salmonella	enterica	enterica	Yoruba	1	XLD	Typical	OPUS	Salmonella Yoruba	na	IA
CTS_312	Salmonella	enterica	enterica	Yoruba	1	NA	na	CFX	Salmonella Yoruba	na	IA
CTS_312	Salmonella	enterica	enterica	Yoruba	1	XLD	Typical	CFX	Salmonella Yoruba	na	IA
CTS_312	Salmonella	enterica	enterica	Yoruba	1	NA	na	OPUS	Salmonella Yoruba	na	IA
CTS_312	Salmonella	enterica	enterica	Yoruba	1	XLD	Typical	OPUS	Salmonella Yoruba	na	IA
CTS_313	Salmonella	enterica	enterica	Yoruba	1	NA	na	CFX	Salmonella Yoruba	na	IA
CTS_313	Salmonella	enterica	enterica	Yoruba	1	XLD	Typical	CFX	Salmonella Yoruba	na	IA
CTS_313	Salmonella	enterica	enterica	Yoruba	1	NA	na	OPUS	Salmonella Yoruba	na	IA
CTS_313	Salmonella	enterica	enterica	Yoruba	1	XLD	Typical	OPUS	Salmonella Yoruba	na	IA
CTS_526	Salmonella	enterica	enterica	Yoruba	1	NA	na	CFX	Salmonella Yoruba	IA	IA
CTS_526	Salmonella	enterica	enterica	Yoruba	1	XLD	Typical	CFX	Salmonella Yoruba	IA	IA
CTS_526	Salmonella	enterica	enterica	Yoruba	1	NA	na	OPUS	Salmonella Yoruba	IA	IA
CTS_526	Salmonella	enterica	enterica	Yoruba	1	XLD	Typical	OPUS	Salmonella Yoruba	IA	IA
CTS_540	Salmonella	enterica	enterica	Jubilee	1	NA	na	CFX	Salmonella positive, Genovar CXTJJ1	na	EA
CTS_540	Salmonella	enterica	enterica	Jubilee	1	XLD	Typical	CFX	Salmonella positive, Genovar CXTJJ1	na	EA
CTS_540	Salmonella	enterica	enterica	Jubilee	1	NA	na	OPUS	Salmonella positive, Genovar CXTJJ1	na	EA
CTS_540	Salmonella	enterica	enterica	Jubilee	1	XLD	Typical	OPUS	Salmonella positive, Genovar CXTJJ1	na	EA
CTS_425	Salmonella	enterica	enterica	Abony	1	NA	na	CFX	Salmonella positive, Genovar ESG6Y1	na	EA
CTS_425	Salmonella	enterica	enterica	Abony	1	XLD	Typical	CFX	Salmonella positive, Genovar ESG6Y1	na	EA
CTS_425	Salmonella	enterica	enterica	Abony	1	NA	na	OPUS	Salmonella positive, Genovar ESG6Y1	na	EA
CTS_425	Salmonella	enterica	enterica	Abony	1	XLD	Typical	OPUS	Salmonella positive, Genovar ESG6Y1	na	EA
CTS_542	Salmonella	enterica	enterica	Kumasi	1	NA	na	CFX	Salmonella positive, Genovar WXHY1	na	EA
CTS_542	Salmonella	enterica	enterica	Kumasi	1	XLD	Typical	CFX	Salmonella positive, Genovar WXHY1	na	EA

CTS_542	Salmonella	enterica	enterica	Kumasi	1	NA	na	OPUS	Salmonella positive, Genovar WXHY1	na	EA
CTS_542	Salmonella	enterica	enterica	Kumasi	1	XLD	Typical	OPUS	Salmonella positive, Genovar WSHY1	na	EA
CTS_553	Salmonella	enterica	enterica	Kingabwa	1	NA	na	CFX	Salmonella positive, Genovar CXTT1	na	EA
CTS_553	Salmonella	enterica	enterica	Kingabwa	1	XLD	Typical	CFX	Salmonella positive, Genovar CXTT1	na	EA
CTS_553	Salmonella	enterica	enterica	Kingabwa	1	NA	na	OPUS	Salmonella positive, Genovar CXTT1	na	EA
CTS_553	Salmonella	enterica	enterica	Kingabwa	1	XLD	Typical	OPUS	Salmonella positive, Genovar CXTT1	na	EA
CTS_562	Salmonella	enterica	enterica	Poano	1	NA	na	CFX	Salmonella positive, Genovar CRMJP1	na	EA
CTS_562	Salmonella	enterica	enterica	Poano	1	XLD	Typical	CFX	Salmonella positive, Genovar CRMJP1	na	EA
CTS_562	Salmonella	enterica	enterica	Poano	1	NA	na	OPUS	Salmonella positive, Genovar CRMJP1	na	EA
CTS_562	Salmonella	enterica	enterica	Poano	1	XLD	Typical	OPUS	Salmonella positive, Genovar CRMJP1	na	EA
CTS_577	Salmonella	enterica	enterica	Mgulani	1	NA	na	CFX	Salmonella positive, Genovar WSKTT1	na	EA
CTS_577	Salmonella	enterica	enterica	Mgulani	1	XLD	Typical	CFX	Salmonella positive, Genovar WHKTT1	na	EA
CTS_577	Salmonella	enterica	enterica	Mgulani	1	NA	na	OPUS	Salmonella positive, Genovar WSKTT1	na	EA
CTS_577	Salmonella	enterica	enterica	Mgulani	1	XLD	Typical	OPUS	Salmonella positive, Genovar WXJT1	na	EA
CTS_430	Salmonella	enterica	enterica	Augustenborg	1	NA	na	CFX	Salmonella positive, Genovar WHJT1	na	EA
CTS_430	Salmonella	enterica	enterica	Augustenborg	1	XLD	Typical	CFX	Salmonella positive, Genovar WHKTT1	na	EA
CTS_430	Salmonella	enterica	enterica	Augustenborg	1	NA	na	OPUS	Salmonella positive, Genovar WSKTT1	na	EA
CTS_430	Salmonella	enterica	enterica	Augustenborg	1	XLD	Typical	OPUS	Salmonella positive, Genovar WSKTT1	na	EA

CTS_593	Salmonella	enterica	enterica	Kintambo	1	NA	na	CFX	Salmonella positive, Genovar 4WGKJ1	na	EA
CTS_593	Salmonella	enterica	enterica	Kintambo	1	XLD	Typical	CFX	Salmonella positive, Genovar 4WGKJ1	na	EA
CTS_593	Salmonella	enterica	enterica	Kintambo	1	NA	na	OPUS	Salmonella positive, Genovar 4WGKJ1	na	EA
CTS_593	Salmonella	enterica	enterica	Kintambo	1	XLD	Typical	OPUS	Salmonella positive, Genovar 4WGKJ1	na	EA
CTS_605	Salmonella	enterica	enterica	Lome	1	NA	na	CFX	Salmonella positive, Genovar CWMVP1	na	EA
CTS_605	Salmonella	enterica	enterica	Lome	1	XLD	Typical	CFX	Salmonella positive, Genovar CWMVP1	na	EA
CTS_605	Salmonella	enterica	enterica	Lome	1	NA	na	OPUS	Salmonella positive, Genovar CWMVP1	na	EA
CTS_605	Salmonella	enterica	enterica	Lome	1	XLD	Typical	OPUS	Salmonella positive, Genovar CWMVP1	na	EA
CTS_433	Salmonella	enterica	enterica	Bergen	1	NA	na	CFX	Salmonella positive, Genovar WRGTP1	na	EA
CTS_433	Salmonella	enterica	enterica	Bergen	1	XLD	Typical	CFX	Salmonella positive, Genovar WRGTP1	na	EA
CTS_433	Salmonella	enterica	enterica	Bergen	1	NA	na	OPUS	Salmonella positive, Genovar WRGTP1	na	EA
CTS_433	Salmonella	enterica	enterica	Bergen	1	XLD	Typical	OPUS	Salmonella positive, Genovar WSGTP1	na	EA
CTS_608	Salmonella	enterica	enterica	Chingola	1	NA		CFX	Salmonella positive, Genovar CST6T1	na	EA
CTS_608	Salmonella	enterica	enterica	Chingola	1	XLD		CFX	Salmonella positive, Genovar CST6T1	na	EA
CTS_608	Salmonella	enterica	enterica	Chingola	1	NA		OPUS	Salmonella positive, Genovar CST6T1	na	EA
CTS_608	Salmonella	enterica	enterica	Chingola	1	XLD		OPUS	Salmonella positive, Genovar EST6T1	na	EA
CTS_435	Salmonella	enterica	enterica	Carrau	1	NA	na	CFX	Salmonella positive, Genovar CHYJM1	na	EA
CTS_435	Salmonella	enterica	enterica	Carrau	1	XLD	Typical	CFX	Salmonella positive, Genovar CHYJM1	na	EA

CTS_435	Salmonella	enterica	enterica	Carrau	1	NA	na	OPUS	Salmonella positive, Genovar CSYJM1	na	EA
CTS_435	Salmonella	enterica	enterica	Carrau	1	XLD	Typical	OPUS	Salmonella positive, Genovar CSYJM1	na	EA
CTS_437	Salmonella	enterica	enterica	Bruck	1	NA	na	CFX	Salmonella positive, Genovar CSG7P1	na	EA
CTS_437	Salmonella	enterica	enterica	Bruck	1	XLD	Typical	CFX	Salmonella positive, Genovar CSG7P1	na	EA
CTS_437	Salmonella	enterica	enterica	Bruck	1	NA	na	OPUS	Salmonella positive, Genovar CSG7P1	na	EA
CTS_437	Salmonella	enterica	enterica	Bruck	1	XLD	Typical	OPUS	Salmonella positive, Genovar CSG7P1	na	EA
CTS_438	Salmonella	enterica	enterica	Brunei	1	NA	na	CFX	Salmonella positive, Genovar ERTJP1	na	EA
CTS_438	Salmonella	enterica	enterica	Brunei	1	XLD	Typical	CFX	Salmonella positive, Genovar ERTJP1	na	EA
CTS_438	Salmonella	enterica	enterica	Brunei	1	NA	na	OPUS	Salmonella positive, Genovar ERTJP1	na	EA
CTS_438	Salmonella	enterica	enterica	Brunei	1	XLD	Typical	OPUS	Salmonella positive, Genovar ERTJP1	na	EA
CTS_439	Salmonella	enterica	enterica	Carno	1	NA	na	CFX	Salmonella positive, Genovar CSGYP1	na	EA
CTS_439	Salmonella	enterica	enterica	Carno	1	XLD	Typical	CFX	Salmonella positive, Genovar CSGYP1	na	EA
CTS_439	Salmonella	enterica	enterica	Carno	1	NA	na	OPUS	Salmonella positive, Genovar CSGYP1	na	EA
CTS_439	Salmonella	enterica	enterica	Carno	1	XLD	Typical	OPUS	Salmonella positive, Genovar CSGYP1	na	EA
CTS_512-1	Salmonella	enterica	enterica	Cotham	1	NA	na	CFX	Salmonella positive, Genovar WSTJP1	na	EA
CTS_512-1	Salmonella	enterica	enterica	Cotham	1	XLD	Typical	CFX	Salmonella positive, Genovar WSVJP1	na	EA
CTS_512-1	Salmonella	enterica	enterica	Cotham	1	NA	na	OPUS	Salmonella positive, Genovar WSVJP1	na	EA
CTS_512-1	Salmonella	enterica	enterica	Cotham	1	XLD	Typical	OPUS	Salmonella positive, Genovar WSVJP1	na	EA

CTS_441	Salmonella	enterica	enterica	Chandals	1	NA	na	CFX	Salmonella positive, Genovar WSVTM1	na	EA
CTS_441	Salmonella	enterica	enterica	Chandals	2	NA	na	CFX	Salmonella positive, Genovar WSVTG1	na	EA
CTS_441	Salmonella	enterica	enterica	Chandals	1	XLD	Typical	CFX	Salmonella positive, Genovar WSVTG1	na	EA
CTS_441	Salmonella	enterica	enterica	Chandals	1	NA	na	OPUS	Salmonella positive, Genovar WSVTG1	na	EA
CTS_441	Salmonella	enterica	enterica	Chandals	1	XLD	Typical	OPUS	Salmonella positive, Genovar WSVTG1	na	EA
CTS_625	Salmonella	enterica	enterica	Jukestown	1	NA	na	CFX	Salmonella positive, Genovar WHHZP1	na	EA
CTS_625	Salmonella	enterica	enterica	Jukestown	1	XLD	Typical	CFX	Salmonella positive, Genovar WSHZP1	na	EA
CTS_625	Salmonella	enterica	enterica	Jukestown	1	NA	na	OPUS	Salmonella positive, Genovar WSHZP1	na	EA
CTS_625	Salmonella	enterica	enterica	Jukestown	1	XLD	Typical	OPUS	Salmonella positive, Genovar WSHZP1	na	EA
CTS_443	Salmonella	enterica	enterica	Coeln	1	NA	na	CFX	Salmonella positive, Genovar EWPAJ1	na	EA
CTS_443	Salmonella	enterica	enterica	Coeln	1	XLD	Typical	CFX	Salmonella positive, Genovar EWPAJ1	na	EA
CTS_443	Salmonella	enterica	enterica	Coeln	1	NA	na	OPUS	Salmonella positive, Genovar EWPAJ1	na	EA
CTS_443	Salmonella	enterica	enterica	Coeln	1	XLD	Typical	OPUS	Salmonella positive, Genovar EWPAJ1	na	EA
CTS_444	Salmonella	enterica	enterica	Colindale	1	NA	na	CFX	Salmonella positive, Genovar CSSQJ1	na	EA
CTS_444	Salmonella	enterica	enterica	Colindale	1	XLD	Typical	CFX	Salmonella positive, Genovar CSSQJ1	na	EA
CTS_444	Salmonella	enterica	enterica	Colindale	1	NA	na	OPUS	Salmonella positive, Genovar CSSQJ1	na	EA
CTS_444	Salmonella	enterica	enterica	Colindale	1	XLD	Typical	OPUS	Salmonella positive, Genovar CSSQJ1	na	EA
CTS_445	Salmonella	enterica	enterica	Duisburg	1	NA	na	CFX	Salmonella positive, Genovar YSTVP1	na	EA

CTS_445	Salmonella	enterica	enterica	Duisburg	1	XLD	Typical	CFX	Salmonella positive, Genovar YSTVP1	na	EA
CTS_445	Salmonella	enterica	enterica	Duisburg	1	NA	na	OPUS	Salmonella positive, Genovar YSTVP1	na	EA
CTS_445	Salmonella	enterica	enterica	Duisburg	1	XLD	Typical	OPUS	Salmonella positive, Genovar YSTVP1	na	EA
CTS_446	Salmonella	enterica	enterica	Durban	1	NA	na	CFX	Salmonella positive, Genovar CHXJM1	na	EA
CTS_446	Salmonella	enterica	enterica	Durban	1	XLD	Typical	CFX	Salmonella positive, Genovar CSXJM1	na	EA
CTS_446	Salmonella	enterica	enterica	Durban	1	NA	na	OPUS	Salmonella positive, Genovar CSXJM1	na	EA
CTS_446	Salmonella	enterica	enterica	Durban	1	XLD	Typical	OPUS	Salmonella positive, Genovar CSXJM1	na	EA
CTS_627	Salmonella	enterica	enterica	Myrria	1	NA	na	CFX	Salmonella positive, Genovar WRVJM1	na	EA
CTS_627	Salmonella	enterica	enterica	Myrria	1	XLD	Typical	CFX	Salmonella positive, Genovar WRVJM1	na	EA
CTS_627	Salmonella	enterica	enterica	Myrria	1	NA	na	OPUS	Salmonella positive, Genovar YRVJM1	na	EA
CTS_627	Salmonella	enterica	enterica	Myrria	1	XLD	Typical	OPUS	Salmonella positive, Genovar WRVJM1	na	EA
CTS_632	Salmonella	enterica	enterica	Babelsberg	1	NA	na	CFX	Salmonella positive, Genovar 4SMQP1	na	EA
CTS_632	Salmonella	enterica	enterica	Babelsberg	1	XLD	Typical	CFX	Salmonella positive, Genovar 4SMQP1	na	EA
CTS_632	Salmonella	enterica	enterica	Babelsberg	1	NA	na	OPUS	Salmonella Positive, inconclusive typing result	na	- Repeat test
CTS_632	Salmonella	enterica	enterica	Babelsberg	2	NA	na	OPUS	Salmonella positive, Genovar 4SMQP1	na	EA
CTS_639	Salmonella	enterica	enterica	Malstatt	1	NA	na	CFX	Salmonella positive, Genovar CRJ3P1	na	EA
CTS_639	Salmonella	enterica	enterica	Malstatt	1	XLD	Typical	CFX	Salmonella positive, Genovar CRJ3P1	na	EA
CTS_639	Salmonella	enterica	enterica	Malstatt	1	NA	na	OPUS	Salmonella positive, Genovar CRJ3P1	na	EA

CTS_639	Salmonella	enterica	enterica	Malstatt	1	XLD	Typical	OPUS	Salmonella positive, Genovar CRJ3P1	na	EA
CTS_656	Salmonella	enterica	enterica	Lawndale	1	NA	na	CFX	Salmonella positive, Genovar CSYTJ1	na	EA
CTS_656	Salmonella	enterica	enterica	Lawndale	1	XLD	Typical	CFX	Salmonella positive, Genovar CHYTJ1	na	EA
CTS_656	Salmonella	enterica	enterica	Lawndale	1	NA	na	OPUS	Salmonella positive, Genovar CSYTJ1	na	EA
CTS_656	Salmonella	enterica	enterica	Lawndale	1	XLD	Typical	OPUS	Salmonella positive, Genovar CSYTJ1	na	EA
CTS_451	Salmonella	enterica	enterica	Glostrup	1	NA	na	CFX	Salmonella positive, Genovar YHVAP1	na	EA
CTS_451	Salmonella	enterica	enterica	Glostrup	1	XLD	Typical	CFX	Salmonella positive, Genovar YSVAP1	na	EA
CTS_451	Salmonella	enterica	enterica	Glostrup	1	NA	na	OPUS	Salmonella positive, Genovar YSVAP1	na	EA
CTS_451	Salmonella	enterica	enterica	Glostrup	1	XLD	Typical	OPUS	Salmonella positive, Genovar YSVAP1	na	EA
CTS_670	Salmonella	enterica	enterica	Gombe	1	NA	na	CFX	Salmonella positive, Genovar MWG2P1	na	EA
CTS_670	Salmonella	enterica	enterica	Gombe	1	XLD	Typical	CFX	Salmonella positive, Genovar MRG2P1	na	EA
CTS_670	Salmonella	enterica	enterica	Gombe	1	NA	na	OPUS	Salmonella positive, Genovar MRG2P1	na	EA
CTS_670	Salmonella	enterica	enterica	Gombe	1	XLD	Typical	OPUS	Salmonella positive, Genovar MRG2P1	na	EA
CTS_453	Salmonella	enterica	enterica	Grumpensis	1	NA	na	CFX	Salmonella positive, Genovar WHXTJ1	na	EA
CTS_453	Salmonella	enterica	enterica	Grumpensis	1	XLD	Typical	CFX	Salmonella positive, Genovar WHXTJ1	na	EA
CTS_453	Salmonella	enterica	enterica	Grumpensis	1	NA	na	OPUS	Salmonella positive, Genovar WSXTJ1	na	EA
CTS_453	Salmonella	enterica	enterica	Grumpensis	1	XLD	Typical	OPUS	Salmonella positive, Genovar WSXTJ1	na	EA
CTS_674	Salmonella	enterica	enterica	Herston	1	NA	na	CFX	Salmonella positive, Genovar WRW2Y1	na	EA

CTS_674	Salmonella	enterica	enterica	Herston	1	XLD	Typical	CFX	Salmonella positive, Genovar WRW2Y1	na	EA
CTS_674	Salmonella	enterica	enterica	Herston	1	NA	na	OPUS	Salmonella positive, Genovar YRW2Y1	na	EA
CTS_674	Salmonella	enterica	enterica	Herston	1	XLD	Typical	OPUS	Salmonella positive, Genovar YRW2Y1	na	EA
CTS_675	Salmonella	enterica	enterica	Mishmarhaemek	1	NA	na	CFX	Salmonella positive, Genovar WSGBY1	na	EA
CTS_675	Salmonella	enterica	enterica	Mishmarhaemek	1	XLD	Typical	CFX	Salmonella positive, Genovar WSGBY1	na	EA
CTS_675	Salmonella	enterica	enterica	Mishmarhaemek	1	NA	na	OPUS	Salmonella positive, Genovar WSGBY1	na	EA
CTS_675	Salmonella	enterica	enterica	Mishmarhaemek	1	XLD	Typical	OPUS	Salmonella positive, Genovar WSGBY1	na	EA
CTS_684	Salmonella	enterica	enterica	Mons	1	NA	na	CFX	Salmonella positive, Genovar YRGAP1	na	EA
CTS_684	Salmonella	enterica	enterica	Mons	1	XLD	Typical	CFX	Salmonella positive, Genovar YRGAP1	na	EA
CTS_684	Salmonella	enterica	enterica	Mons	1	NA	na	OPUS	Salmonella positive, Genovar YRGAP1	na	EA
CTS_684	Salmonella	enterica	enterica	Mons	1	XLD	Typical	OPUS	Salmonella positive, Genovar YRGAP1	na	EA
CTS_457	Salmonella	enterica	enterica	Ibadan	1	NA	na	CFX	Salmonella positive, Genovar CHGEP1	na	EA
CTS_457	Salmonella	enterica	enterica	Ibadan	1	XLD	Typical	CFX	Salmonella positive, Genovar CHGEP1	na	EA
CTS_457	Salmonella	enterica	enterica	Ibadan	1	NA	na	OPUS	Salmonella positive, Genovar CSGEP1	na	EA
CTS_457	Salmonella	enterica	enterica	Ibadan	1	XLD	Typical	OPUS	Salmonella positive, Genovar CSGEP1	na	EA
CTS_689	Salmonella	enterica	enterica	Ahmadi	1	NA	na	CFX	Salmonella positive, Genovar WRRYW1	na	EA
CTS_689	Salmonella	enterica	enterica	Ahmadi	1	XLD	Typical	CFX	Salmonella positive, Genovar WRRYW1	na	EA
CTS_689	Salmonella	enterica	enterica	Ahmadi	1	NA	na	OPUS	Salmonella positive, Genovar WRRYW1	na	EA

CTS_689	Salmonella	enterica	enterica	Ahmadi	1	XLD	Typical	OPUS	Salmonella positive, Genovar WRRYW1	na	EA
CTS_690	Salmonella	enterica	enterica	Korovi	1	NA	na	CFX	Salmonella positive, Genovar CSJ6Y1	na	EA
CTS_690	Salmonella	enterica	enterica	Korovi	1	XLD	Typical	CFX	Salmonella positive, Genovar CSJ6Y1	na	EA
CTS_690	Salmonella	enterica	enterica	Korovi	1	NA	na	OPUS	Salmonella positive, Genovar CSJ6Y1	na	EA
CTS_690	Salmonella	enterica	enterica	Korovi	1	XLD	Typical	OPUS	Salmonella positive, Genovar CSJ6Y1	na	EA
CTS_460	Salmonella	enterica	enterica	Jangwani	1	NA	na	CFX	Salmonella positive, Genovar CHXKJ1	na	EA
CTS_460	Salmonella	enterica	enterica	Jangwani	1	XLD	Typical	CFX	Salmonella positive, Genovar CHXKJ1	na	EA
CTS_460	Salmonella	enterica	enterica	Jangwani	1	NA	na	OPUS	Salmonella positive, Genovar CSXKJ1	na	EA
CTS_460	Salmonella	enterica	enterica	Jangwani	1	XLD	Typical	OPUS	Salmonella positive, Genovar CHXKJ1	na	EA
CTS_706	Salmonella	enterica	enterica	Ball	1	NA	na	CFX	Salmonella positive, Genovar EWP2J1	na	EA
CTS_706	Salmonella	enterica	enterica	Ball	1	XLD	Typical	CFX	Salmonella positive, Genovar EWP2J1	na	EA
CTS_706	Salmonella	enterica	enterica	Ball	1	NA	na	OPUS	Salmonella positive, Genovar EWP2J1	na	EA
CTS_706	Salmonella	enterica	enterica	Ball	1	XLD	Typical	OPUS	Salmonella positive, Genovar EWP2J1	na	EA
CTS_710	Salmonella	enterica	enterica	Bournemouth	1	NA		CFX	Salmonella positive, Genovar CSKPYH	na	EA
CTS_710	Salmonella	enterica	enterica	Bournemouth	1	XLD		CFX	Salmonella positive, Genovar CSKPYH	na	EA
CTS_710	Salmonella	enterica	enterica	Bournemouth	1	NA		OPUS	Salmonella positive, Genovar CSKPYH	na	EA
CTS_710	Salmonella	enterica	enterica	Bournemouth	1	XLD		OPUS	Salmonella positive, Genovar CSKPYH	na	EA
CTS_463	Salmonella	enterica	enterica	Kirkee	1	NA	na	CFX	Salmonella positive, Genovar CSPPP1	na	EA

CTS_463	Salmonella	enterica	enterica	Kirkee	1	XLD	Typical	CFX	Salmonella positive, Genovar CSPPP1	na	EA
CTS_463	Salmonella	enterica	enterica	Kirkee	1	NA	na	OPUS	Salmonella positive, Genovar CSPPP1	na	EA
CTS_463	Salmonella	enterica	enterica	Kirkee	1	XLD	Typical	OPUS	Salmonella positive, Genovar CSPPP1	na	EA
CTS_464	Salmonella	enterica	enterica	Kisarawe	1	NA	na	CFX	Salmonella positive, Genovar CXMKP1	na	EA
CTS_464	Salmonella	enterica	enterica	Kisarawe	1	XLD	Typical	CFX	Salmonella positive, Genovar CXMKP1	na	EA
CTS_464	Salmonella	enterica	enterica	Kisarawe	1	NA	na	OPUS	Salmonella positive, Genovar CXMKP1	na	EA
CTS_464	Salmonella	enterica	enterica	Kisarawe	1	XLD	Typical	OPUS	Salmonella positive, Genovar CXMKP1	na	EA
CTS_720	Salmonella	enterica	enterica	Agoueve	1	NA	na	CFX	Salmonella positive, Genovar 4RH3P1	na	EA
CTS_720	Salmonella	enterica	enterica	Agoueve	1	XLD	Typical	CFX	Salmonella positive, Genovar 4RH3P1	na	EA
CTS_720	Salmonella	enterica	enterica	Agoueve	1	NA	na	OPUS	Salmonella positive, Genovar 4RH3P1	na	EA
CTS_720	Salmonella	enterica	enterica	Agoueve	1	XLD	Typical	OPUS	Salmonella positive, Genovar 4RH3P1	na	EA
CTS_466	Salmonella	enterica	enterica	Lagos	1	NA	na	CFX	Salmonella positive, Genovar YRP3P1	na	EA
CTS_466	Salmonella	enterica	enterica	Lagos	1	XLD	Typical	CFX	Salmonella positive, Genovar YRP3P1	na	EA
CTS_466	Salmonella	enterica	enterica	Lagos	1	NA	na	OPUS	Salmonella positive, Genovar YRP3P1	na	EA
CTS_466	Salmonella	enterica	enterica	Lagos	1	XLD	Typical	OPUS	Salmonella positive, Genovar YRP3P1	na	EA
CTS_738	Salmonella	enterica	enterica	Grandhaven	1	NA	na	CFX	Salmonella positive, Genovar CSTZP1	na	EA
CTS_738	Salmonella	enterica	enterica	Grandhaven	1	XLD	Typical	CFX	Salmonella positive, Genovar CSTZP1	na	EA
CTS_738	Salmonella	enterica	enterica	Grandhaven	1	NA	na	OPUS	Reaction not OK	na	- Repeat test
CTS_738	Salmonella	enterica	enterica	Grandhaven	2	NA	na	OPUS	Salmonella positive, Genovar CSTZP1	na	EA

CTS_738	Salmonella	enterica	enterica	Grandhaven	1	XLD	Typical	OPUS	Salmonella positive, Genovar CSTZP1	na	EA
CTS_468	Salmonella	enterica	enterica	Lille	1	NA	na	CFX	Salmonella positive, Genovar 4NMZP1	na	EA
CTS_468	Salmonella	enterica	enterica	Lille	1	XLD	Typical	CFX	Salmonella positive, Genovar 4NMZP1	na	EA
CTS_468	Salmonella	enterica	enterica	Lille	1	NA	na	OPUS	Salmonella positive, Genovar 4XMZP1	na	EA
CTS_468	Salmonella	enterica	enterica	Lille	1	XLD	Typical	OPUS	Salmonella positive, Genovar 4XMZP1	na	EA
CTS_749	Salmonella	enterica	enterica	Millesi	1	NA	na	CFX	Salmonella positive, Genovar CSMYP1	na	EA
CTS_749	Salmonella	enterica	enterica	Millesi	1	XLD	Typical	CFX	Salmonella positive, Genovar CSMYP1	na	EA
CTS_749	Salmonella	enterica	enterica	Millesi	1	NA	na	OPUS	Salmonella positive, Genovar CSMYP1	na	EA
CTS_749	Salmonella	enterica	enterica	Millesi	1	XLD	Typical	OPUS	Salmonella positive, Genovar CSMYP1	na	EA
CTS_752	Salmonella	enterica	enterica	Irumu	1	NA	na	CFX	Salmonella positive, Genovar CXRY1	na	EA
CTS_752	Salmonella	enterica	enterica	Irumu	1	XLD	Typical	CFX	Salmonella positive, Genovar CXRY1	na	EA
CTS_752	Salmonella	enterica	enterica	Irumu	1	NA	na	OPUS	Salmonella positive, Genovar CXRY1	na	EA
CTS_752	Salmonella	enterica	enterica	Irumu	1	XLD	Typical	OPUS	Salmonella positive, Genovar CXRY1	na	EA
CTS_472	Salmonella	enterica	enterica	Matopeni	1	NA	na	CFX	Salmonella positive, Genovar CXJEY1	na	EA
CTS_472	Salmonella	enterica	enterica	Matopeni	1	XLD	Typical	CFX	Salmonella positive, Genovar CXJEY1	na	EA
CTS_472	Salmonella	enterica	enterica	Matopeni	1	NA	na	OPUS	Salmonella positive, Genovar CXJEY1	na	EA
CTS_472	Salmonella	enterica	enterica	Matopeni	1	XLD	Typical	OPUS	Salmonella positive, Genovar CXJEY1	na	EA
CTS_753	Salmonella	enterica	enterica	Telaviv	1	NA	na	CFX	Salmonella positive, Genovar CRH7Y1	na	EA

CTS_753	Salmonella	enterica	enterica	Telaviv	1	XLD	Typical	CFX	Salmonella positive, Genovar CRH7Y1	na	EA
CTS_753	Salmonella	enterica	enterica	Telaviv	1	NA	na	OPUS	Salmonella positive, Genovar CRH7Y1	na	EA
CTS_753	Salmonella	enterica	enterica	Telaviv	1	XLD	Typical	OPUS	Salmonella positive, Genovar CRH7Y1	na	EA
CTS_474	Salmonella	enterica	enterica	Miami	1	NA	na	CFX	Salmonella positive, Genovar CSZTP1	na	EA
CTS_474	Salmonella	enterica	enterica	Miami	1	XLD	Typical	CFX	Salmonella positive, Genovar CSZTP1	na	EA
CTS_474	Salmonella	enterica	enterica	Miami	1	NA	na	OPUS	Salmonella positive, Genovar CSZTP1	na	EA
CTS_474	Salmonella	enterica	enterica	Miami	1	XLD	Typical	OPUS	Salmonella positive, Genovar CSZTP1	na	EA
CTS_475	Salmonella	enterica	enterica	Michigan	1	NA	na	CFX	Salmonella positive, Genovar CSYET1	na	EA
CTS_475	Salmonella	enterica	enterica	Michigan	1	XLD	Typical	CFX	Salmonella positive, Genovar CSYET1	na	EA
CTS_475	Salmonella	enterica	enterica	Michigan	1	NA	na	OPUS	Salmonella positive, Genovar CSYET1	na	EA
CTS_475	Salmonella	enterica	enterica	Michigan	1	XLD	Typical	OPUS	Salmonella positive, Genovar CSYET1	na	EA
CTS_476	Salmonella	enterica	enterica	Mikawasima	1	NA	na	CFX	Salmonella positive, Genovar CGH6T1	na	EA
CTS_476	Salmonella	enterica	enterica	Mikawasima	1	XLD	Typical	CFX	Salmonella positive, Genovar CGH6T1	na	EA
CTS_476	Salmonella	enterica	enterica	Mikawasima	1	NA	na	OPUS	Salmonella positive, Genovar CGH6T1	na	EA
CTS_476	Salmonella	enterica	enterica	Mikawasima	1	XLD	Typical	OPUS	Salmonella positive, Genovar CRH6T1	na	EA
CTS_477	Salmonella	enterica	enterica	Moroto	1	NA	na	CFX	Salmonella positive, Genovar WHG6Y1	na	EA
CTS_477	Salmonella	enterica	enterica	Moroto	1	XLD	Typical	CFX	Salmonella positive, Genovar WSG6Y1	na	EA
CTS_477	Salmonella	enterica	enterica	Moroto	1	NA	na	OPUS	Salmonella positive, Genovar WSG6Y1	na	EA

CTS_477	Salmonella	enterica	enterica	Moroto	1	XLD	Typical	OPUS	Salmonella positive, Genovar WSG6Y1	na	EA
CTS_478	Salmonella	enterica	enterica	Nagoya	1	NA	na	CFX	Salmonella positive, Genovar EHT6W1	na	EA
CTS_478	Salmonella	enterica	enterica	Nagoya	1	XLD	Typical	CFX	Salmonella positive, Genovar EHT6W1	na	EA
CTS_478	Salmonella	enterica	enterica	Nagoya	1	NA	na	OPUS	Salmonella positive, Genovar EST6W1	na	EA
CTS_478	Salmonella	enterica	enterica	Nagoya	1	XLD	Typical	OPUS	Salmonella positive, Genovar EST6W1	na	EA
CTS_479	Salmonella	enterica	enterica	Napoli	1	NA	na	CFX	Salmonella positive, Genovar CSTPW1	na	EA
CTS_479	Salmonella	enterica	enterica	Napoli	1	XLD	Typical	CFX	Salmonella positive, Genovar CSTPW1	na	EA
CTS_479	Salmonella	enterica	enterica	Napoli	1	NA	na	OPUS	Salmonella positive, Genovar CSTPW1	na	EA
CTS_479	Salmonella	enterica	enterica	Napoli	1	XLD	Typical	OPUS	Salmonella positive, Genovar CSTPW1	na	EA
CTS_756	Salmonella	enterica	enterica	Hofit	1	NA	na	CFX	Salmonella positive, Genovar WSJJY1	na	EA
CTS_756	Salmonella	enterica	enterica	Hofit	1	XLD	Typical	CFX	Salmonella positive, Genovar WSJJY1	na	EA
CTS_756	Salmonella	enterica	enterica	Hofit	1	NA	na	OPUS	Salmonella positive, Genovar WSJJY1	na	EA
CTS_756	Salmonella	enterica	enterica	Hofit	1	XLD	Typical	OPUS	Salmonella positive, Genovar WSJJY1	na	EA
CTS_481	Salmonella	enterica	enterica	Oslo	1	NA	na	CFX	Salmonella positive, Genovar CSG6P1	na	EA
CTS_481	Salmonella	enterica	enterica	Oslo	1	XLD	Typical	CFX	Salmonella positive, Genovar CSG6P1	na	EA
CTS_481	Salmonella	enterica	enterica	Oslo	1	NA	na	OPUS	Salmonella positive, Genovar CSG6P1	na	EA
CTS_481	Salmonella	enterica	enterica	Oslo	1	XLD	Typical	OPUS	Salmonella positive, Genovar CSG6P1	na	EA
CTS_482	Salmonella	enterica	enterica	Paratyphi A	1	NA	na	CFX	Salmonella positive, Genovar CGH3P1	na	EA

CTS_482	Salmonella	enterica	enterica	Paratyphi A	1	XLD	Typical	CFX	Salmonella positive, Genovar CRH3P1	na	EA
CTS_482	Salmonella	enterica	enterica	Paratyphi A	1	NA	na	OPUS	Salmonella positive, Genovar CRH3P1	na	EA
CTS_482	Salmonella	enterica	enterica	Paratyphi A	1	XLD	Typical	OPUS	Salmonella positive, Genovar CRH3P1	na	EA
CTS_483	Salmonella	enterica	enterica	Paratyphi C	1	NA	na	CFX	Salmonella positive, Genovar CTJPT1	na	EA
CTS_483	Salmonella	enterica	enterica	Paratyphi C	1	XLD	Typical	CFX	Salmonella positive, Genovar CTJPT1	na	EA
CTS_483	Salmonella	enterica	enterica	Paratyphi C	1	NA	na	OPUS	Salmonella positive, Genovar CVJPT1	na	EA
CTS_483	Salmonella	enterica	enterica	Paratyphi C	1	XLD	Typical	OPUS	Salmonella positive, Genovar CVJPT1	na	EA
CTS_484	Salmonella	enterica	enterica	Pomona	1	NA	na	CFX	Salmonella positive, Genovar CRVKP1	na	EA
CTS_484	Salmonella	enterica	enterica	Pomona	1	XLD	Typical	CFX	Salmonella positive, Genovar CRVKP1	na	EA
CTS_484	Salmonella	enterica	enterica	Pomona	1	NA	na	OPUS	Salmonella positive, Genovar CRVKP1	na	EA
CTS_484	Salmonella	enterica	enterica	Pomona	1	XLD	Typical	OPUS	Salmonella positive, Genovar CRVKP1	na	EA
CTS_485	Salmonella	enterica	enterica	Potsdam	1	NA	na	CFX	Salmonella positive, Genovar CSVFJ1	na	EA
CTS_485	Salmonella	enterica	enterica	Potsdam	1	XLD	Typical	CFX	Reaction not OK	na	na Repeat test
CTS_485	Salmonella	enterica	enterica	Potsdam	2	XLD	Typical	CFX	No DNA detected	na	Inconclusive result CT_521 added
CTS_485	Salmonella	enterica	enterica	Potsdam	1	NA	na	OPUS	Salmonella positive, Genovar CSVFJ1	na	EA
CTS_485	Salmonella	enterica	enterica	Potsdam	1	XLD	Typical	OPUS	Salmonella positive, Genovar CSVFJ1	na	EA
CTS_486	Salmonella	enterica	enterica	Regent	1	NA	na	CFX	Salmonella positive, Genovar 4HGPP1	na	EA
CTS_486	Salmonella	enterica	enterica	Regent	1	XLD	Typical	CFX	Salmonella positive, Genovar 4SGPP1	na	EA
CTS_486	Salmonella	enterica	enterica	Regent	1	NA	na	OPUS	Salmonella positive, Genovar 4SGPP1	na	EA

CTS_486	Salmonella	enterica	enterica	Regent	1	XLD	Typical	OPUS	Salmonella positive, Genovar 4SGPP1	na	EA
CTS_487	Salmonella	enterica	enterica	Rubislaw	1	NA	na	CFX	Salmonella positive, Genovar CHYTM1	na	EA
CTS_487	Salmonella	enterica	enterica	Rubislaw	1	XLD	Typical	CFX	Salmonella positive, Genovar CHYTG1	na	EA
CTS_487	Salmonella	enterica	enterica	Rubislaw	1	NA	na	OPUS	Salmonella positive, Genovar CHYTM1	na	EA
CTS_487	Salmonella	enterica	enterica	Rubislaw	1	XLD	Typical	OPUS	Salmonella positive, Genovar CHYTM1	na	EA
CTS_763	Salmonella	enterica	enterica	Kasenyi	1	NA	na	CFX	Salmonella positive, Genovar CXTJJ1	na	EA
CTS_763	Salmonella	enterica	enterica	Kasenyi	1	XLD	Typical	CFX	Salmonella positive, Genovar CXTJJ1	na	EA
CTS_763	Salmonella	enterica	enterica	Kasenyi	1	NA	na	OPUS	Salmonella positive, Genovar CXTJJ1	na	EA
CTS_763	Salmonella	enterica	enterica	Kasenyi	1	XLD	Typical	OPUS	Salmonella positive, Genovar CXTJJ1	na	EA
CTS_772	Salmonella	enterica	enterica	Larochelle	1	NA	na	CFX	Salmonella positive, Genovar CHJFY1	na	EA
CTS_772	Salmonella	enterica	enterica	Larochelle	1	XLD	Typical	CFX	Salmonella positive, Genovar CHJFY1	na	EA
CTS_772	Salmonella	enterica	enterica	Larochelle	1	NA	na	OPUS	Salmonella positive, Genovar CHJFY1	na	EA
CTS_772	Salmonella	enterica	enterica	Larochelle	1	XLD	Typical	OPUS	Salmonella positive, Genovar CSJFY1	na	EA
CTS_491	Salmonella	enterica	enterica	Teitelkebir	1	NA	na	CFX	Salmonella positive, Genovar WSJ2P1	na	EA
CTS_491	Salmonella	enterica	enterica	Teitelkebir	1	XLD	Typical	CFX	Salmonella positive, Genovar WSJ2P1	na	EA
CTS_491	Salmonella	enterica	enterica	Teitelkebir	1	NA	na	OPUS	Salmonella positive, Genovar WSJ2P1	na	EA
CTS_491	Salmonella	enterica	enterica	Teitelkebir	1	XLD	Typical	OPUS	Salmonella positive, Genovar WSJ2P1	na	EA
CTS_492	Salmonella	enterica	enterica	Toulon	1	NA	na	CFX	Salmonella positive, Genovar CHGQP1	na	EA

CTS_492	Salmonella	enterica	enterica	Toulon	1	XLD	Typical	CFX	Salmonella positive, Genovar CNGKP1	na	EA
CTS_492	Salmonella	enterica	enterica	Toulon	1	NA	na	OPUS	Salmonella positive, Genovar CHGKP1	na	EA
CTS_492	Salmonella	enterica	enterica	Toulon	1	XLD	Typical	OPUS	Salmonella positive, Genovar CHGKP1	na	EA
CTS_792	Salmonella	enterica	enterica	Carmel	1	NA		CFX	Salmonella positive, Genovar CSRY1	na	EA
CTS_792	Salmonella	enterica	enterica	Carmel	1	XLD		CFX	Salmonella positive, Genovar CSRY1	na	EA
CTS_792	Salmonella	enterica	enterica	Carmel	1	NA		OPUS	Salmonella positive, Genovar CSRY1	na	EA
CTS_792	Salmonella	enterica	enterica	Carmel	1	XLD		OPUS	Salmonella positive, Genovar CSRY1	na	EA
CTS_494	Salmonella	enterica	enterica	Veneziana	1	NA	na	CFX	Salmonella positive, Genovar WST6Y1	na	EA
CTS_494	Salmonella	enterica	enterica	Veneziana	1	XLD	Typical	CFX	Salmonella positive, Genovar WST6Y1	na	EA
CTS_494	Salmonella	enterica	enterica	Veneziana	1	NA	na	OPUS	Salmonella positive, Genovar WST6Y1	na	EA
CTS_494	Salmonella	enterica	enterica	Veneziana	1	XLD	Typical	OPUS	Salmonella positive, Genovar WST6Y1	na	EA
CTS_803	Salmonella	enterica	enterica	Nigeria	1	NA	na	CFX	Salmonella positive, Genovar CXK7P1	na	EA
CTS_803	Salmonella	enterica	enterica	Nigeria	1	XLD	Typical	CFX	Salmonella positive, Genovar CXK7P1	na	EA
CTS_803	Salmonella	enterica	enterica	Nigeria	1	NA	na	OPUS	Salmonella positive, Genovar CXK7P1	na	EA
CTS_803	Salmonella	enterica	enterica	Nigeria	1	XLD	Typical	OPUS	Salmonella positive, Genovar CXK7P1	na	EA
CTS_497	Salmonella	enterica	enterica	Yaba	1	NA	na	CFX	Salmonella positive, Genovar CHGZP1	na	EA
CTS_497	Salmonella	enterica	enterica	Yaba	1	XLD	Typical	CFX	Salmonella positive, Genovar CHGZP1	na	EA
CTS_497	Salmonella	enterica	enterica	Yaba	1	NA	na	OPUS	Salmonella positive, Genovar CSGZP1	na	EA

CTS_497	Salmonella	enterica	enterica	Yaba	1	XLD	Typical	OPUS	Salmonella positive, Genovar CSGZP1	na	EA
CTS_498	Salmonella	enterica	enterica	Zanzibar	1	NA	na	CFX	Salmonella positive, Genovar CRVYY1	na	EA
CTS_498	Salmonella	enterica	enterica	Zanzibar	1	XLD	Typical	CFX	Salmonella positive, Genovar CRVYY1	na	EA
CTS_498	Salmonella	enterica	enterica	Zanzibar	1	NA	na	OPUS	Salmonella positive, Genovar CRVYY1	na	EA
CTS_498	Salmonella	enterica	enterica	Zanzibar	1	XLD	Typical	OPUS	Salmonella positive, Genovar CRVYY1	na	EA
CTS_804	Salmonella	enterica	enterica	Hessarek	1	NA	na	CFX	Salmonella positive, Genovar EVKZY1	na	EA
CTS_804	Salmonella	enterica	enterica	Hessarek	1	XLD	Typical	CFX	Salmonella positive, Genovar EVKZY1	na	EA
CTS_804	Salmonella	enterica	enterica	Hessarek	1	NA	na	OPUS	Salmonella positive, Genovar EVKZY1	na	EA
CTS_804	Salmonella	enterica	enterica	Hessarek	1	XLD	Typical	OPUS	Salmonella positive, Genovar EVKZY1	na	EA
CTS_521	Salmonella	enterica	enterica	Potsdam	1	NA	na	CFX	Salmonella positive, Genovar CSTFJ1	na	EA
CTS_521	Salmonella	enterica	enterica	Potsdam	1	XLD	Typical	CFX	Salmonella positive, Genovar CSVFJ1	na	EA
CTS_521	Salmonella	enterica	enterica	Potsdam	1	NA	na	OPUS	Salmonella positive, Genovar CSVFJ1	na	EA
CTS_521	Salmonella	enterica	enterica	Potsdam	1	XLD	Typical	OPUS	Salmonella positive, Genovar CSVFJ1	na	EA
CTS_512-2	Salmonella	enterica	enterica	Eboko	1	NA	na	CFX	Salmonella positive, Genovar ERJKJ1	na	EA
CTS_512-2	Salmonella	enterica	enterica	Eboko	1	XLD	Typical	CFX	Salmonella positive, Genovar ERJKJ1	na	EA
CTS_512-2	Salmonella	enterica	enterica	Eboko	1	NA	na	OPUS	Salmonella positive, Genovar ERJKJ1	na	EA
CTS_512-2	Salmonella	enterica	enterica	Eboko	1	XLD	Typical	OPUS	Salmonella positive, Genovar ERJKJ1	na	EA
CTS_632	Salmonella	enterica	enterica	Babelsberg	1	XLD	Typical	OPUS	Salmonella positive, Genovar 4SMQP1	na	EA

CTS_614	Salmonella	enterica	enterica	Fomeco	1	NA	na	CFX	Salmonella positive, Genovar CSJPP1	na	EA
CTS_614	Salmonella	enterica	enterica	Fomeco	1	XLD	Typical	CFX	Salmonella positive, Genovar CSJPP1	na	EA
CTS_614	Salmonella	enterica	enterica	Fomeco	1	NA	na	OPUS	Salmonella positive, Genovar CSJPP1	na	EA
CTS_614	Salmonella	enterica	enterica	Fomeco	1	XLD	Typical	OPUS	Salmonella positive, Genovar CSJPP1	na	EA
CTS_784	Salmonella	enterica	enterica	Freetown	1	NA	na	CFX	Salmonella positive, Genovar CHVTP1	na	EA
CTS_784	Salmonella	enterica	enterica	Freetown	1	XLD	Typical	CFX	Salmonella positive, Genovar CHVTP1	na	EA
CTS_784	Salmonella	enterica	enterica	Freetown	1	NA	na	OPUS	Salmonella positive, Genovar CSVTP1	na	EA
CTS_784	Salmonella	enterica	enterica	Freetown	1	XLD	Typical	OPUS	Salmonella positive, Genovar CSVTP1	na	EA
CTS_488	Salmonella	enterica	enterica	Ruiru	1	NA	na	CFX	Salmonella positive, Genovar CSTJJ1	na	EA
CTS_488	Salmonella	enterica	enterica	Ruiru	1	XLD	Typical	CFX	Salmonella positive, Genovar CSVJJ1	na	EA
CTS_488	Salmonella	enterica	enterica	Ruiru	1	NA	na	OPUS	Salmonella positive, Genovar CSVJJ1	na	EA
CTS_488	Salmonella	enterica	enterica	Ruiru	1	XLD	Typical	OPUS	Salmonella positive, Genovar CSVJJ1	na	EA
CTS_324	Buttiauxella	agrestis	-	-	1	NA	na	CFX	No salmonella	EA	EA
CTS_324	Buttiauxella	agrestis	-	-	1	XLD	Typical	CFX	No salmonella	EA	EA
CTS_324	Buttiauxella	agrestis	-	-	1	NA	na	OPUS	No salmonella	EA	EA
CTS_324	Buttiauxella	agrestis	-	-	1	XLD	Typical	OPUS	No salmonella	EA	EA
CTS_326	Cedecea	davisae	-	-	1	NA	na	CFX	No salmonella	EA	EA
CTS_326	Cedecea	davisae	-	-	1	XLD	Typical	CFX	No salmonella	EA	EA
CTS_326	Cedecea	davisae	-	-	1	NA	na	OPUS	No salmonella	EA	EA
CTS_326	Cedecea	davisae	-	-	1	XLD	Typical	OPUS	No salmonella	EA	EA
CTS_331	Citrobacter	freundii	-	-	1	NA	na	CFX	No salmonella	EA	EA
CTS_331	Citrobacter	freundii	-	-	1	XLD	Typical	CFX	No salmonella	EA	EA
CTS_331	Citrobacter	freundii	-	-	1	NA	na	OPUS	No salmonella	EA	EA
CTS_331	Citrobacter	freundii	-	-	1	XLD	Typical	OPUS	No salmonella	EA	EA
CTS_338	Cronobacter	sakazakii	-	-	1	NA	na	CFX	No salmonella	EA	EA



CTS_338	Cronobacter	sakazakii	-	-	1	XLD	Typical	CFX	No salmonella	EA	EA
CTS_338	Cronobacter	sakazakii	-	-	1	NA	na	OPUS	No salmonella	EA	EA
CTS_338	Cronobacter	sakazakii	-	-	1	XLD	Typical	OPUS	No salmonella	EA	EA
CTS_339	Enterobacter	aerogenes	-	-	1	NA	na	CFX	No salmonella	EA	EA
CTS_339	Enterobacter	aerogenes	-	-	1	XLD	Typical	CFX	No salmonella	EA	EA
CTS_339	Enterobacter	aerogenes	-	-	1	NA	na	OPUS	No salmonella	EA	EA
CTS_339	Enterobacter	aerogenes	-	-	1	XLD	Typical	OPUS	No salmonella	EA	EA
CTS_349	Escherichia	coli	-	-	1	NA	na	CFX	No salmonella	EA	EA
CTS_349	Escherichia	coli	-	-	1	XLD	Typical	CFX	No salmonella	EA	EA
CTS_349	Escherichia	coli	-	-	1	NA	na	OPUS	No salmonella	EA	EA
CTS_349	Escherichia	coli	-	-	1	XLD	Typical	OPUS	No salmonella	EA	EA
CTS_361	Franconibacter	helveticus	-	-	1	NA	na	CFX	No salmonella	EA	EA
CTS_361	Franconibacter	helveticus	-	-	1	XLD	Typical	CFX	No salmonella	EA	EA
CTS_361	Franconibacter	helveticus	-	-	1	NA	na	OPUS	No salmonella	EA	EA
CTS_361	Franconibacter	helveticus	-	-	1	XLD	Typical	OPUS	No salmonella	EA	EA
CTS_362	Gibbsiella	dentisursi	-	-	1	NA	na	CFX	No salmonella	EA	EA
CTS_362	Gibbsiella	dentisursi	-	-	1	XLD	Typical	CFX	No salmonella	EA	EA
CTS_362	Gibbsiella	dentisursi	-	-	1	NA	na	OPUS	No salmonella	EA	EA
CTS_362	Gibbsiella	dentisursi	-	-	1	XLD	Typical	OPUS	No salmonella	EA	EA
CTS_374	Kluyvera	ascorbata	-	-	1	NA	na	CFX	No salmonella	EA	EA
CTS_374	Kluyvera	ascorbata	-	-	1	XLD	Typical	CFX	No salmonella	EA	EA
CTS_374	Kluyvera	ascorbata	-	-	1	NA	na	OPUS	No salmonella	EA	EA
CTS_374	Kluyvera	ascorbata	-	-	1	XLD	Typical	OPUS	No salmonella	EA	EA
CTS_376	Kosakonia	sacchari	-	-	1	NA	na	CFX	No salmonella	EA	EA
CTS_376	Kosakonia	sacchari	-	-	1	XLD	Typical	CFX	No salmonella	EA	EA
CTS_376	Kosakonia	sacchari	-	-	1	NA	na	OPUS	No salmonella	EA	EA
CTS_376	Kosakonia	sacchari	-	-	1	XLD	Typical	OPUS	No salmonella	EA	EA
CTS_378	Leclercia	adecarboxylata	-	-	1	NA	na	CFX	No salmonella	EA	EA
CTS_378	Leclercia	adecarboxylata	-	-	1	XLD	Typical	CFX	No salmonella	EA	EA
CTS_378	Leclercia	adecarboxylata	-	-	1	NA	na	OPUS	No salmonella	EA	EA
CTS_378	Leclercia	adecarboxylata	-	-	1	XLD	Typical	OPUS	No salmonella	EA	EA
CTS_379	Lelliottia	amnigena	-	-	1	NA	na	CFX	No salmonella	EA	EA
CTS_379	Lelliottia	amnigena	-	-	1	XLD	Typical	CFX	No salmonella	EA	EA
CTS_379	Lelliottia	amnigena	-	-	1	NA	na	OPUS	No salmonella	EA	EA
CTS_379	Lelliottia	amnigena	-	-	1	XLD	Typical	OPUS	No salmonella	EA	EA
CTS_380	Mangrovibacter	yixingensis	-	-	1	NA	na	CFX	No salmonella	EA	EA



CTS_380	Mangrovibacter	yixingensis	-	-	1	XLD	Typical	CFX	No salmonella	EA	EA
CTS_380	Mangrovibacter	yixingensis	-	-	1	NA	na	OPUS	No salmonella	EA	EA
CTS_380	Mangrovibacter	yixingensis	-	-	1	XLD	Typical	OPUS	No salmonella	EA	EA
CTS_381	Phytobacter	diazotrophicus	-	-	1	NA	na	CFX	No salmonella	EA	EA
CTS_381	Phytobacter	diazotrophicus	-	-	1	XLD	Typical	CFX	No salmonella	EA	EA
CTS_381	Phytobacter	diazotrophicus	-	-	1	NA	na	OPUS	No salmonella	EA	EA
CTS_381	Phytobacter	diazotrophicus	-	-	1	XLD	Typical	OPUS	No salmonella	EA	EA
CTS_382	Plesiomonas	shigelloides	-	-	1	NA	na	CFX	No salmonella	EA	EA
CTS_382	Plesiomonas	shigelloides	-	-	1	XLD	Typical	CFX	No salmonella	EA	EA
CTS_382	Plesiomonas	shigelloides	-	-	1	NA	na	OPUS	No salmonella	EA	EA
CTS_382	Plesiomonas	shigelloides	-	-	1	XLD	Typical	OPUS	No salmonella	EA	EA
CTS_383	Pluralibacter	pyrinus	-	-	1	NA	na	CFX	No salmonella	EA	EA
CTS_383	Pluralibacter	pyrinus	-	-	1	XLD	Typical	CFX	No salmonella	EA	EA
CTS_383	Pluralibacter	pyrinus	-	-	1	NA	na	OPUS	No salmonella	EA	EA
CTS_383	Pluralibacter	pyrinus	-	-	1	XLD	Typical	OPUS	No salmonella	EA	EA
CTS_384	Pseudescherichia	vulneris	-	-	1	NA	na	CFX	No salmonella	EA	EA
CTS_384	Pseudescherichia	vulneris	-	-	1	XLD	Typical	CFX	No salmonella	EA	EA
CTS_384	Pseudescherichia	vulneris	-	-	1	NA	na	OPUS	No salmonella	EA	EA
CTS_384	Pseudescherichia	vulneris	-	-	1	XLD	Typical	OPUS	No salmonella	EA	EA
CTS_385	Pseudocitrobacter	faecalis	-	-	1	NA	na	CFX	No salmonella	EA	EA
CTS_385	Pseudocitrobacter	faecalis	-	-	1	XLD	Typical	CFX	No salmonella	EA	EA
CTS_385	Pseudocitrobacter	faecalis	-	-	1	NA	na	OPUS	No salmonella	EA	EA
CTS_385	Pseudocitrobacter	faecalis	-	-	1	XLD	Typical	OPUS	No salmonella	EA	EA
CTS_386	Raoultella	ornithinolytica	-	-	1	NA	na	CFX	No salmonella	EA	EA
CTS_386	Raoultella	ornithinolytica	-	-	1	XLD	Typical	CFX	No salmonella	EA	EA
CTS_386	Raoultella	ornithinolytica	-	-	1	NA	na	OPUS	No salmonella	EA	EA
CTS_386	Raoultella	ornithinolytica	-	-	1	XLD	Typical	OPUS	No salmonella	EA	EA
CTS_388	Rosenbergiella	nectarea	-	-	1	NA	na	CFX	No salmonella	EA	EA
CTS_388	Rosenbergiella	nectarea	-	-	1	XLD	Typical	CFX	No salmonella	EA	EA
CTS_388	Rosenbergiella	nectarea	-	-	1	NA	na	OPUS	No salmonella	EA	EA
CTS_388	Rosenbergiella	nectarea	-	-	1	XLD	Typical	OPUS	No salmonella	EA	EA
CTS_391	Shigella	flexneri	-	-	1	NA	na	CFX	No salmonella	EA	EA
CTS_391	Shigella	flexneri	-	-	1	XLD	Typical	CFX	No salmonella	EA	EA
CTS_391	Shigella	flexneri	-	-	1	NA	na	OPUS	No salmonella	EA	EA
CTS_391	Shigella	flexneri	-	-	1	XLD	Typical	OPUS	No salmonella	EA	EA
CTS_395	Shimwellia	pseudoproteus	-	-	1	NA	na	CFX	No salmonella	EA	EA



CTS_395	Shimwellia	pseudoproteus	-	-	1	NA	na	OPUS	No salmonella	EA	EA
CTS_395	Shimwellia	pseudoproteus	-	-	1	XLD	no growth	CFX		na	na
CTS_395	Shimwellia	pseudoproteus	-	-	1	XLD	no growth	OPUS		na	na
CTS_396	Siccibacter	turicensis	-	-	1	NA	na	CFX	No salmonella	EA	EA
CTS_396	Siccibacter	turicensis	-	-	1	XLD	Typical	CFX	No salmonella	EA	EA
CTS_396	Siccibacter	turicensis	-	-	1	NA	na	OPUS	No salmonella	EA	EA
CTS_396	Siccibacter	turicensis	-	-	1	XLD	Typical	OPUS	No salmonella	EA	EA
CTS_364	Klebsiella	aerogenes	-	-	1	NA	na	CFX	No salmonella	EA	EA
CTS_364	Klebsiella	aerogenes	-	-	1	XLD	Typical	CFX	No salmonella	EA	EA
CTS_364	Klebsiella	aerogenes	-	-	1	NA	na	OPUS	No salmonella	EA	EA
CTS_364	Klebsiella	aerogenes	-	-	1	XLD	Typical	OPUS	No salmonella	EA	EA
CTS_363	Citrobacter	freundii	-	-	1	NA	na	CFX	No salmonella	EA	EA
CTS_363	Citrobacter	freundii	-	-	1	NA	na	OPUS	No salmonella	EA	EA
CTS_363	Citrobacter	freundii	-	-	1	XLD	Typical	CFX	No salmonella	EA	EA
CTS_363	Citrobacter	freundii	-	-	1	XLD	Typical	OPUS	No salmonella	EA	EA
CTS_325	Buttiauxella	warmboldiae	-	-	1	NA	na	CFX	No salmonella	EA	EA
CTS_325	Buttiauxella	warmboldiae	-	-	1	NA	na	OPUS	No salmonella	EA	EA
CTS_325	Buttiauxella	warmboldiae	-	-	1	XLD	no growth	CFX		na	na
CTS_325	Buttiauxella	warmboldiae	-	-	1	XLD	no growth	OPUS		na	na
CTS_327	Citrobacter	freundii	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_327	Citrobacter	freundii	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_327	Citrobacter	freundii	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_327	Citrobacter	freundii	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_328	Citrobacter	amalonaticus	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_328	Citrobacter	amalonaticus	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_328	Citrobacter	amalonaticus	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_328	Citrobacter	amalonaticus	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_329	Citrobacter	braakii	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_329	Citrobacter	braakii	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_329	Citrobacter	braakii	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_329	Citrobacter	braakii	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_330	Citrobacter	braakii	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_330	Citrobacter	braakii	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_330	Citrobacter	braakii	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_330	Citrobacter	braakii	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_332	Citrobacter	freundii	-	-	1	NA	na	CFX	No salmonella	EA	na



CTS_332	Citrobacter	freundii	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_332	Citrobacter	freundii	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_332	Citrobacter	freundii	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_333	Citrobacter	gillenii	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_333	Citrobacter	gillenii	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_333	Citrobacter	gillenii	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_333	Citrobacter	gillenii	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_334	Citrobacter	koseri	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_334	Citrobacter	koseri	-	-	1	XLD	Atypical	CFX	No salmonella	EA	na
CTS_334	Citrobacter	koseri	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_334	Citrobacter	koseri	-	-	1	XLD	Atypical	OPUS	No salmonella	EA	na
CTS_335	Citrobacter	murlinae	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_335	Citrobacter	murlinae	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_335	Citrobacter	murlinae	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_335	Citrobacter	murlinae	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_336	Citrobacter	youngae	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_336	Citrobacter	youngae	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_336	Citrobacter	youngae	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_336	Citrobacter	youngae	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_337	Cronobacter	malonaticus	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_337	Cronobacter	malonaticus	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_337	Cronobacter	malonaticus	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_337	Cronobacter	malonaticus	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_340	Enterobacter	aerogenes	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_340	Enterobacter	aerogenes	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_340	Enterobacter	aerogenes	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_340	Enterobacter	aerogenes	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_341	Enterobacter	amnigenus	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_341	Enterobacter	amnigenus	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_341	Enterobacter	amnigenus	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_341	Enterobacter	amnigenus	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_342	Enterobacter	asburiae	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_342	Enterobacter	asburiae	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_342	Enterobacter	asburiae	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_342	Enterobacter	asburiae	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_343	Enterobacter	cloacae	-	-	1	NA	na	CFX	No salmonella	EA	na

CTS_343	Enterobacter	cloacae	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_343	Enterobacter	cloacae	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_343	Enterobacter	cloacae	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_344	Enterobacter	cloacae	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_344	Enterobacter	cloacae	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_344	Enterobacter	cloacae	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_344	Enterobacter	cloacae	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_345	Enterobacter	hormaechei	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_345	Enterobacter	hormaechei	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_345	Enterobacter	hormaechei	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_345	Enterobacter	hormaechei	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_346	Enterobacter	kobei	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_346	Enterobacter	kobei	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_346	Enterobacter	kobei	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_346	Enterobacter	kobei	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_347	Enterobacter	ludwigii	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_347	Enterobacter	ludwigii	-	-	1	XLD	Atypical	CFX	No salmonella	EA	na
CTS_347	Enterobacter	ludwigii	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_347	Enterobacter	ludwigii	-	-	1	XLD	Atypical	OPUS	No salmonella	EA	na
CTS_348	Enterobacter	roggenkampii	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_348	Enterobacter	roggenkampii	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_348	Enterobacter	roggenkampii	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_348	Enterobacter	roggenkampii	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_350	Escherichia	coli	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_350	Escherichia	coli	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_350	Escherichia	coli	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_350	Escherichia	coli	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_351	Escherichia	coli	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_351	Escherichia	coli	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_351	Escherichia	coli	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_351	Escherichia	coli	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_352	Escherichia	coli	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_352	Escherichia	coli	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_352	Escherichia	coli	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_352	Escherichia	coli	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_353	Escherichia	coli	-	-	1	NA	na	CFX	No salmonella	EA	na

CTS_353	Escherichia coli	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_353	Escherichia coli	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_353	Escherichia coli	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_354	Escherichia coli O157:H7	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_354	Escherichia coli O157:H7	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_354	Escherichia coli O157:H7	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_354	Escherichia coli O157:H7	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_355	Escherichia coli (STEC)	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_355	Escherichia coli (STEC)	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_355	Escherichia coli (STEC)	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_355	Escherichia coli (STEC)	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_356	Escherichia coli (stx1, stx2, eae)	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_356	Escherichia coli (stx1, stx2, eae)	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_356	Escherichia coli (stx1, stx2, eae)	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_356	Escherichia coli (stx1, stx2, eae)	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_357	Escherichia coli (stx2)	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_357	Escherichia coli (stx2)	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_357	Escherichia coli (stx2)	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_357	Escherichia coli (stx2)	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_358	Escherichia fergusonii	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_358	Escherichia fergusonii	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_358	Escherichia fergusonii	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_358	Escherichia fergusonii	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_359	Escherichia hermannii	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_359	Escherichia hermannii	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_359	Escherichia hermannii	-	-	2	NA	na	OPUS	No salmonella	EA	na
CTS_359	Escherichia hermannii	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_359	Escherichia hermannii	-	-	1	NA	na	OPUS	Reaction not OK	na	na Repeat test
CTS_360	Escherichia marmotae	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_360	Escherichia marmotae	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_360	Escherichia marmotae	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_360	Escherichia marmotae	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_365	Klebsiella aerogenes	-	-	1	NA	na	CFX	No salmonella	EA	na



CTS_365	Klebsiella	aerogenes	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_365	Klebsiella	aerogenes	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_365	Klebsiella	aerogenes	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_366	Klebsiella	grimontii	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_366	Klebsiella	grimontii	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_366	Klebsiella	grimontii	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_366	Klebsiella	grimontii	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_367	Klebsiella	michiganensis	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_367	Klebsiella	michiganensis	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_367	Klebsiella	michiganensis	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_367	Klebsiella	michiganensis	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_368	Klebsiella	quasipneumoniae	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_368	Klebsiella	quasipneumoniae	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_368	Klebsiella	quasipneumoniae	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_368	Klebsiella	quasipneumoniae	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_369	Klebsiella	oxytoca	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_369	Klebsiella	oxytoca	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_369	Klebsiella	oxytoca	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_369	Klebsiella	oxytoca	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_370	Klebsiella	oxytoca	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_370	Klebsiella	oxytoca	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_370	Klebsiella	oxytoca	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_370	Klebsiella	oxytoca	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_371	Klebsiella	pneumoniae	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_371	Klebsiella	pneumoniae	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_371	Klebsiella	pneumoniae	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_371	Klebsiella	pneumoniae	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_372	Klebsiella	pneumoniae	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_372	Klebsiella	pneumoniae	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_372	Klebsiella	pneumoniae	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_372	Klebsiella	pneumoniae	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_373	Klebsiella	variicola	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_373	Klebsiella	variicola	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_373	Klebsiella	variicola	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_373	Klebsiella	variicola	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_375	Kluyvera	intermedia	-	-	1	NA	na	CFX	No salmonella	EA	na



CTS_375	Kluyvera	intermedia	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_375	Kluyvera	intermedia	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_375	Kluyvera	intermedia	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_377	Kosakonia	radicincitans	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_377	Kosakonia	radicincitans	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_377	Kosakonia	radicincitans	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_377	Kosakonia	radicincitans	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_387	Raoultella	terrigena	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_387	Raoultella	terrigena	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_387	Raoultella	terrigena	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_387	Raoultella	terrigena	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_389	Shigella	boydii	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_389	Shigella	boydii	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_389	Shigella	boydii	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_389	Shigella	boydii	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_390	Shigella	boydii	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_390	Shigella	boydii	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_390	Shigella	boydii	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_390	Shigella	boydii	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_392	Shigella	flexneri	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_392	Shigella	flexneri	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_392	Shigella	flexneri	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_392	Shigella	flexneri	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_393	Shigella	sonnei	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_393	Shigella	sonnei	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_393	Shigella	sonnei	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_393	Shigella	sonnei	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_394	Shigella	sonnei	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_394	Shigella	sonnei	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_394	Shigella	sonnei	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_394	Shigella	sonnei	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_397	Trabulsiella	guamensis	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_397	Trabulsiella	guamensis	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_397	Trabulsiella	guamensis	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_397	Trabulsiella	guamensis	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_398	Yokenella	regensburgei	-	-	1	NA	na	CFX	No salmonella	EA	na

CTS_398	Yokenella	regensburgei	-	-	1	XLD	Typical	CFX	No salmonella	EA	na	
CTS_398	Yokenella	regensburgei	-	-	1	NA	na	OPUS	No salmonella	EA	na	
CTS_398	Yokenella	regensburgei	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na	
CTS_522	Escherichia	coli	-	-	1	NA	na	CFX	No salmonella	na	EA	
CTS_522	Escherichia	coli	-	-	1	XLD	Typical	CFX	No salmonella	na	EA	
CTS_522	Escherichia	coli	-	-	1	NA	na	OPUS	No salmonella	na	EA	
CTS_522	Escherichia	coli	-	-	1	XLD	Typical	OPUS	No salmonella	na	EA	
CTS_531	Escherichia	coli	-	-	1	NA	na	CFX	No salmonella	EA	EA	
CTS_531	Escherichia	coli	-	-	1	XLD	Typical	CFX	No salmonella	EA	EA	
CTS_531	Escherichia	coli	-	-	1	NA	na	OPUS	No salmonella	EA	EA	
CTS_531	Escherichia	coli	-	-	1	XLD	Typical	OPUS	No salmonella	EA	EA	
CTS_399	Acinetobacter	baumannii	-	-	1	NA	na	CFX	No salmonella	EA	na	
CTS_399	Acinetobacter	baumannii	-	-	1	XLD	Typical	CFX	No salmonella	EA	na	
CTS_399	Acinetobacter	baumannii	-	-	1	NA	na	OPUS	No salmonella	EA	na	
CTS_399	Acinetobacter	baumannii	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na	
CTS_400	Acinetobacter	pittii	-	-	1	NA	na	CFX	No salmonella	EA	na	
CTS_400	Acinetobacter	pittii	-	-	1	NA	na	OPUS	No salmonella	EA	na	
CTS_400	Acinetobacter	pittii	-	-	1	XLD	no growth	CFX		na	na	no growth on XLD
CTS_400	Acinetobacter	pittii	-	-	1	XLD	no growth	OPUS		na	na	no growth on XLD
CTS_401	Acinetobacter	baumannii	-	-	1	NA	na	CFX	No salmonella	EA	na	
CTS_401	Acinetobacter	baumannii	-	-	1	XLD	Typical	CFX	No salmonella	EA	na	
CTS_401	Acinetobacter	baumannii	-	-	1	NA	na	OPUS	No salmonella	EA	na	
CTS_401	Acinetobacter	baumannii	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na	
CTS_402	Acinetobacter	nosocomialis	-	-	1	NA	na	CFX	No salmonella	EA	na	
CTS_402	Acinetobacter	nosocomialis	-	-	2	XLD	Typical	CFX	No salmonella	EA	EA	
CTS_402	Acinetobacter	nosocomialis	-	-	1	NA	na	OPUS	No salmonella	EA	EA	
CTS_402	Acinetobacter	nosocomialis	-	-	2	XLD	Typical	OPUS	No salmonella	EA	EA	
CTS_402	Acinetobacter	nosocomialis	-	-	1	XLD	Typical	CFX	No DNA detected	na	na	Repeat test
CTS_402	Acinetobacter	nosocomialis	-	-	1	XLD	Typical	OPUS	No DNA detected	na	na	Repeat test
CTS_403	Acinetobacter	junii	-	-	1	NA	na	CFX	No salmonella	EA	na	
CTS_403	Acinetobacter	junii	-	-	1	NA	na	OPUS	No salmonella	EA	na	
CTS_403	Acinetobacter	junii	-	-	1	XLD	no growth	CFX		na	na	no growth on XLD
CTS_403	Acinetobacter	junii	-	-	1	XLD	no growth	OPUS		na	na	no growth on XLD
CTS_404	Aeromonas	salmonicida	-	-	1	NA	na	CFX	No salmonella	EA	na	
CTS_404	Aeromonas	salmonicida	-	-	1	XLD	Typical	CFX	No salmonella	EA	na	
CTS_404	Aeromonas	salmonicida	-	-	1	NA	na	OPUS	No salmonella	EA	na	



CTS_404	Aeromonas	salmonicida	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_405	Burkholderia	cenocepacia	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_405	Burkholderia	cenocepacia	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_405	Burkholderia	cenocepacia	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_405	Burkholderia	cenocepacia	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_406	Edwardsiella	tarda	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_406	Edwardsiella	tarda	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_406	Edwardsiella	tarda	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_406	Edwardsiella	tarda	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_407	Morganella	morganii	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_407	Morganella	morganii	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_407	Morganella	morganii	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_407	Morganella	morganii	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_408	Hafnia	alvei	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_408	Hafnia	alvei	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_408	Hafnia	alvei	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_408	Hafnia	alvei	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_409	Morganella	morganii	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_409	Morganella	morganii	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_409	Morganella	morganii	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_409	Morganella	morganii	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_410	Pantoea	spp	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_410	Pantoea	spp	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_410	Pantoea	spp	-	-	1	XLD	no growth	CFX		na	na no growth on XLD
CTS_410	Pantoea	spp	-	-	1	XLD	no growth	OPUS		na	na no growth on XLD
CTS_411	Proteus	mirabilis	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_411	Proteus	mirabilis	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_411	Proteus	mirabilis	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_411	Proteus	mirabilis	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_412	Proteus	vulgaris	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_412	Proteus	vulgaris	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_412	Proteus	vulgaris	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_412	Proteus	vulgaris	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_413	Providencia	alcalifaciens	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_413	Providencia	alcalifaciens	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_413	Providencia	alcalifaciens	-	-	1	NA	na	OPUS	No salmonella	EA	na



CTS_413	Providencia	alcalifaciens	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_414	Providencia	rettgeri	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_414	Providencia	rettgeri	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_414	Providencia	rettgeri	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_414	Providencia	rettgeri	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_415	Providencia	stuartii	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_415	Providencia	stuartii	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_415	Providencia	stuartii	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_415	Providencia	stuartii	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_416	Pseudomonas	aeruginosa	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_416	Pseudomonas	aeruginosa	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_416	Pseudomonas	aeruginosa	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_416	Pseudomonas	aeruginosa	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_417	Proteus	mirabilis	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_417	Proteus	mirabilis	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_417	Proteus	mirabilis	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_417	Proteus	mirabilis	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_418	Providencia	rettgeri	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_418	Providencia	stuartii	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_418	Providencia	stuartii	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_418	Providencia	stuartii	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_419	Pseudomonas	aeruginosa	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_419	Pseudomonas	aeruginosa	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_419	Pseudomonas	aeruginosa	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_419	Pseudomonas	aeruginosa	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_420	Serratia	marcescens	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_420	Serratia	marcescens	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_420	Serratia	marcescens	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_420	Serratia	marcescens	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_421	Serratia	plymuthica	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_421	Serratia	plymuthica	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_421	Serratia	plymuthica	-	-	1	XLD	no growth	CFX		na	na no growth on XLD
CTS_421	Serratia	plymuthica	-	-	1	XLD	no growth	OPUS		na	na no growth on XLD
CTS_422	Stenotrophomonas	maltophilia	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_422	Stenotrophomonas	maltophilia	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_422	Stenotrophomonas	maltophilia	-	-	1	NA	na	OPUS	No salmonella	EA	na



CTS_422	Stenotrophomonas maltophilia	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na
CTS_423	Yersinia enterocolitica	-	-	1	NA	na	CFX	No salmonella	EA	na
CTS_423	Yersinia enterocolitica	-	-	1	XLD	Typical	CFX	No salmonella	EA	na
CTS_423	Yersinia enterocolitica	-	-	1	NA	na	OPUS	No salmonella	EA	na
CTS_423	Yersinia enterocolitica	-	-	1	XLD	Typical	OPUS	No salmonella	EA	na

13 ANNEX G: Collaborators in ILS

Company	Country
ADRIA DEVELOPPEMENT	France
ADRIA DEVELOPPEMENT	France
Agro Food Lab	The Netherlands
BIO-RAD	France
CLVP	The Netherlands
Demetris BV	The Netherlands
ECCA btx	Belgium
Hendrix Genetics	France
Istituto Zooprofilattico Sperimentale delle Venezie	Italy
Lavetan	Belgium
Nestle France S.A.S.	France
Nestle France S.A.S.	France
Poulpharm	Belgium
Storteboom	The Netherlands
TLR	The Netherlands

14 ANNEX H: Raw data from ILS

CTS 2.0-1				
Sample code	Strain	Result reference method	Result alternative method	Remarks
S1	<i>Salmonella bongori</i>	Yes	1. Salmonella positive, Genovar 4HG2R1 2. Salmonella positive, Genovar 4HG2R1	
S2	<i>Salmonella enterica enterica</i> Virchow	Yes	Salmonella Virchow	
S3	<i>Salmonella enterica enterica</i> Cotham	Yes	1. Salmonella positive, Genovar WSVJP1 2. Salmonella positive, Genovar WSVJP1	
S4	<i>Salmonella enterica enterica</i> Hartford	Yes	1. Salmonella positive, Genovar CSTPY1 2. Salmonella positive, Genovar CSTPY1	
S5	<i>Buttiauxella agrestis</i>	No	No salmonella	Buttiauxella agrestis of Buttiauxella izardii (MALDI-TOF)
S6	<i>Salmonella enterica enterica</i> Anatum	Yes	Salmonella Anatum	
S7	<i>Cronobacter sakazakii</i>	No	No salmonella	Cronobacter spp. (MALDI-TOF)
S8	<i>Salmonella enterica enterica</i> Enteritidis	Yes	1. Salmonella Enteritidis 2. Salmonella Enteritidis	
S9	<i>Salmonella enterica enterica</i> Montevideo	Yes	1. Salmonella positive, Genovar 4SVTT1 2. Salmonella Montevideo	
S10	<i>Escherichia coli</i>	No	No salmonella	Proteus mirabilis (MALDI-TOF)
S11	<i>Salmonella enterica enterica</i> Heidelberg	Yes	Salmonella Heidelberg	
S12	<i>Shigella flexneri</i>	No	No salmonella	Escherichia coli (MALDI-TOF)
S13	<i>Salmonella enterica enterica</i> Mbandaka	Yes	Salmonella Mbandaka	
S14	<i>Salmonella enterica enterica</i> Ouakam	Yes	Salmonella Ouakam	
S15	<i>Salmonella enterica enterica</i> Senftenberg	Yes	Salmonella Senftenberg	
S16	<i>Salmonella enterica enterica</i> monophasic variant of Salmonella Typhimurium (1,4,[5],12:i:-)	Yes	Salmonella Typhimurium monophasic	
S17	<i>Salmonella enterica enterica</i> Minnesota	Yes	Salmonella Minnesota	
S18	<i>Salmonella enterica enterica</i> Jangwani	Yes	1. Salmonella positive, Genovar CSXKJ1 2. Salmonella positive, Genovar CSXKJ1	

S19	<i>Salmonella enterica enterica</i> Infantis	Yes	Salmonella Infantis	
S20	<i>Hafnia alvei</i>	No	No salmonella	Hafnia alvei (MALDI-TOF)
S21	<i>Salmonella enterica enterica</i> Typhimurium	Yes	Salmonella Typhimurium	
S22	<i>Salmonella enterica enterica</i> Reading	Yes	Salmonella Sandiego or Reading	Sample was repeated with alternative method with identical result
S23	<i>Salmonella enterica enterica</i> Newport	Yes	Salmonella Newport	
S24	<i>Salmonella enterica enterica</i> Emek	Yes	1. Salmonella positive, Genovar 6RGJY1 2. Salmonella positive, Genovar 6RGJY1	
S25	<i>Salmonella enterica enterica</i> Hadar	Yes	Salmonella Hadar	
S26	<i>Klebsiella aerogenes</i>	No	No salmonella	Klebsiella aerogenes (MALDI-TOF)
S27	<i>Enterobacter aerogenes</i>	No	No salmonella	Klebsiella aerogenes (MALDI-TOF)
S28	<i>Salmonella enterica enterica</i> Braenderup	Yes	Salmonella Braenderup	
S29	<i>Salmonella enterica arizonae</i>	Yes	1. Salmonella positive, Genovar 4KG6G1 2. Salmonella positive, Genovar 4KG6G1	
S30	<i>Citrobacter freundii</i>	No	No salmonella	Citrobacter freundii (MALDI-TOF)
Observations or comments		Rerun on 21-10. Samples tested with MALDI-TOF (MicroVal certificate 2017LR73) as well; results identical to reference method		

CTS 2.0-2				
Sample code	Strain	Result reference method	Result alternative method	Remarks
S1	<i>Salmonella bongori</i>	Yes	1. Salmonella positive, Genovar 4HG2R1 2. Salmonella positive, Genovar 4HG2R1	-
S2	<i>Salmonella enterica enterica</i> Virchow	Yes	Salmonella Virchow	-
S3	<i>Salmonella enterica enterica</i> Cotham	Yes	1. Salmonella positive, Genovar WSVJP1 2. Salmonella positive, Genovar WSVJP1	-
S4	<i>Salmonella enterica enterica</i> Hartford	Yes	1. Salmonella positive, Genovar CSTPY1 2. Salmonella positive, Genovar CSTPY1	-
S5	<i>Buttiauxella agrestis</i>	No	No salmonella	Buttiauxella agrestis
S6	<i>Salmonella enterica enterica</i> Anatum	Yes	Salmonella Anatum	-
S7	<i>Cronobacter sakazakii</i>	No	No salmonella	Cronobacter spp.
S8	<i>Salmonella enterica enterica</i> Enteritidis	Yes	Salmonella Enteritidis	-
S9	<i>Salmonella enterica enterica</i> Montevideo	Yes	Salmonella Montevideo	-
S10	<i>Escherichia coli</i>	No	No salmonella	Proteus mirabilis
S11	<i>Salmonella enterica enterica</i> Heidelberg	Yes	Salmonella Heidelberg	-
S12	<i>Shigella flexneri</i>	No	No salmonella	Escherichia coli
S13	<i>Salmonella enterica enterica</i> Mbandaka	Yes	Salmonella Mbandaka	-
S14	<i>Salmonella enterica enterica</i> Ouakam	Yes	Salmonella Ouakam	-
S15	<i>Salmonella enterica enterica</i> Senftenberg	Yes	Salmonella Senftenberg	-
S16	<i>Salmonella enterica enterica</i> monophasic variant of <i>Salmonella</i> Typhimurium (1,4,[5],12:i:-)	Yes	Salmonella Typhimurium monophasic	-
S17	<i>Salmonella enterica enterica</i> Minnesota	Yes	Salmonella Minnesota	-
S18	<i>Salmonella enterica enterica</i> Jangwani	Yes	1. Salmonella positive, Genovar CHXKJ1 2. Salmonella positive, Genovar CHXKJ1	-
S19	<i>Salmonella enterica enterica</i> Infantis	Yes	Salmonella Infantis	-
S20	<i>Hafnia alvei</i>	No	No salmonella	Hafnia alvei
S21	<i>Salmonella enterica enterica</i> Typhimurium	Yes	Salmonella Typhimurium	-
S22	<i>Salmonella enterica enterica</i> Reading	Yes	Salmonella Sandiego or Reading	-
S23	<i>Salmonella enterica enterica</i> Newport	Yes	Salmonella Newport	-

S24	<i>Salmonella enterica enterica</i> Emek	Yes	1. Salmonella positive, Genovar 6GGJY1 2. Salmonella positive, Genovar 6RGJY1	-
S25	<i>Salmonella enterica enterica</i> Hadar	Yes	Salmonella Hadar	-
S26	<i>Klebsiella aerogenes</i>	No	No salmonella	Klebsiella aerogenes
S27	<i>Enterobacter aerogenes</i>	No	No salmonella	Klebsiella aerogenes
S28	<i>Salmonella enterica enterica</i> Braenderup	Yes	Salmonella Braenderup	-
S29	<i>Salmonella enterica arizonae</i>	Yes	1. Salmonella positive, Genovar 4KG6G1 2. Salmonella positive, Genovar 4KG6G1	-
S30	<i>Citrobacter freundii</i>	No	No salmonella	Citrobacter freundii
Observations or comments		-		

CTS 2.0-3				
Sample code	Strain	Result reference method	Result alternative method	Remarks
S1	<i>Salmonella bongori</i>	Yes	1. Reaction not OK 2. Salmonella positive, Genovar 4HG2R1	-
S2	<i>Salmonella enterica enterica</i> Virchow	Yes	Salmonella Virchow	-
S3	<i>Salmonella enterica enterica</i> Cotham	Yes	1. Salmonella positive, Genovar WSVJJ1 2. Salmonella positive, inconclusive typing result	-
S4	<i>Salmonella enterica enterica</i> Hartford	Yes	1. Salmonella positive, Genovar CSTPY1 2. Salmonella positive, Genovar CSTPY1	-
S5	<i>Buttiauxella agrestis</i>	No	No salmonella	-
S6	<i>Salmonella enterica enterica</i> Anatum	Yes	Salmonella Anatum	-
S7	<i>Cronobacter sakazakii</i>	No	No salmonella	-
S8	<i>Salmonella enterica enterica</i> Enteritidis	Yes	Salmonella Enteritidis	-
S9	<i>Salmonella enterica enterica</i> Montevideo	Yes	Salmonella Montevideo	-
S10	<i>Escherichia coli</i>	No	No salmonella	-
S11	<i>Salmonella enterica enterica</i> Heidelberg	Yes	1. Salmonella positive, Genovar ENJYT1 2. Salmonella Heidelberg	-
S12	<i>Shigella flexneri</i>	No	No salmonella	-
S13	<i>Salmonella enterica enterica</i> Mbandaka	Yes	Salmonella Mbandaka	-
S14	<i>Salmonella enterica enterica</i> Ouakam	Yes	Salmonella Ouakam	-
S15	<i>Salmonella enterica enterica</i> Senftenberg	Yes	Salmonella Senftenberg	-
S16	<i>Salmonella enterica enterica</i> monophasic variant of <i>Salmonella</i> Typhimurium (1,4,[5],12:i:-)	Yes	Salmonella Typhimurium monophasic	-
S17	<i>Salmonella enterica enterica</i> Minnesota	Yes	Salmonella Minnesota	-
S18	<i>Salmonella enterica enterica</i> Jangwani	Yes	1. Salmonella positive, Genovar CHXKJ1 2. Salmonella positive, Genovar CHXKJ1	-
S19	<i>Salmonella enterica enterica</i> Infantis	Yes	Salmonella Infantis	-
S20	<i>Hafnia alvei</i>	Yes	No salmonella	No typical colonies on XLD
S21	<i>Salmonella enterica enterica</i> Typhimurium	Yes	Salmonella Typhimurium	-
S22	<i>Salmonella enterica enterica</i> Reading	Yes	Salmonella Sandiego or Reading	-

S23	<i>Salmonella enterica enterica</i> Newport	Yes	Salmonella Newport	-
S24	<i>Salmonella enterica enterica</i> Emek	Yes	1. Salmonella positive, Genovar 6GGJY1 2. Salmonella positive, Genovar 6GGJY1	-
S25	<i>Salmonella enterica enterica</i> Hadar	Yes	Salmonella Hadar	-
S26	<i>Klebsiella aerogenes</i>	No	No salmonella	-
S27	<i>Enterobacter aerogenes</i>	No	No salmonella	-
S28	<i>Salmonella enterica enterica</i> Braenderup	Yes	Salmonella Braenderup	-
S29	<i>Salmonella enterica arizonae</i>	Yes	1. Salmonella positive, Genovar 4KG6G1 2. Salmonella positive, Genovar 4KG6G1	-
S30	<i>Citrobacter freundii</i>	No	No salmonella	-
Observations or comments		-		

CTS 2.0-4				
Sample code	Strain	Result reference method	Result alternative method	Remarks
S1	<i>Salmonella bongori</i>	Yes	1. Salmonella positive, Genovar 4HG2R1 2. Salmonella positive, Genovar 4HG2R1	-
S2	<i>Salmonella enterica enterica</i> Virchow	Yes	Salmonella Virchow	-
S3	<i>Salmonella enterica enterica</i> Cotham	Yes	1. Salmonella positive, Genovar WSTJP1 2. Salmonella positive, Genovar WSVJP1	-
S4	<i>Salmonella enterica enterica</i> Hartford	Yes	1. Salmonella positive, Genovar CSTPY1 2. Salmonella positive, Genovar CSTPY1	-
S5	<i>Buttiauxella agrestis</i>	No	No salmonella	-
S6	<i>Salmonella enterica enterica</i> Anatum	Yes	Salmonella Anatum	-
S7	<i>Cronobacter sakazakii</i>	No	No salmonella	-
S8	<i>Salmonella enterica enterica</i> Enteritidis	Yes	Salmonella Enteritidis	-
S9	<i>Salmonella enterica enterica</i> Montevideo	Yes	Salmonella Montevideo	-
S10	<i>Escherichia coli</i>	No	No salmonella	-
S11	<i>Salmonella enterica enterica</i> Heidelberg	Yes	Salmonella Heidelberg	-
S12	<i>Shigella flexneri</i>	No	No salmonella	-
S13	<i>Salmonella enterica enterica</i> Mbandaka	Yes	1. Salmonella positive, Genovar WSRPM1 2. Salmonella Mbandaka	-
S14	<i>Salmonella enterica enterica</i> Ouakam	Yes	Salmonella Ouakam	-
S15	<i>Salmonella enterica enterica</i> Senftenberg	Yes	1. Salmonella positive, Genovar 4SJKM1 2. Salmonella Senftenberg	-
S16	<i>Salmonella enterica enterica</i> monophasic variant of <i>Salmonella</i> Typhimurium (1,4,[5],12:i:-)	Yes	Salmonella Typhimurium monophasic	-
S17	<i>Salmonella enterica enterica</i> Minnesota	Yes	Salmonella Minnesota	-
S18	<i>Salmonella enterica enterica</i> Jangwani	Yes	1. Salmonella positive, Genovar CSXKJ1 2. Salmonella positive, Genovar CSXKJ1	-
S19	<i>Salmonella enterica enterica</i> Infantis	Yes	Salmonella Infantis	-
S20	<i>Hafnia alvei</i>	No	No salmonella	-
S21	<i>Salmonella enterica enterica</i> Typhimurium	Yes	Salmonella Typhimurium	-
S22	<i>Salmonella enterica enterica</i> Reading	Yes	Salmonella Reading or Reading	-
S23	<i>Salmonella enterica enterica</i> Newport	Yes	Salmonella Newport	-

S24	<i>Salmonella enterica enterica</i> Emek	Yes	1. Salmonella positive, Genovar 6RGJY1 2. Salmonella positive, Genovar 6RGJY1	-
S25	<i>Salmonella enterica enterica</i> Hadar	Yes	Salmonella Hadar	-
S26	<i>Klebsiella aerogenes</i>	No	No salmonella	-
S27	<i>Enterobacter aerogenes</i>	No	No salmonella	-
S28	<i>Salmonella enterica enterica</i> Braenderup	Yes	Salmonella Braenderup	-
S29	<i>Salmonella enterica arizonae</i>	Yes	1. Salmonella positive, Genovar 4KG6G1 2. Salmonella positive, Genovar 4KG6G1	-
S30	<i>Citrobacter freundii</i>	No	No salmonella	-
Observations or comments		Analysis S1-S16 on 19-10, analysis S17-S30 on 20-10, rerun on 21-10. PCR system used identical to CTS 2.0-5, but different technician.		

CTS 2.0-5				
Sample code	Strain	Result reference method	Result alternative method	Remarks
S1	<i>Salmonella bongori</i>	Yes	1. Salmonella positive, Genovar 4HG2R1 2. Salmonella positive, Genovar 4HG2R1	-
S2	<i>Salmonella enterica enterica</i> Virchow	Yes	Salmonella Virchow	-
S3	<i>Salmonella enterica enterica</i> Cotham	Yes	1. Salmonella positive, Genovar WSVJP1 2. Salmonella positive, Genovar WSVJP1	-
S4	<i>Salmonella enterica enterica</i> Hartford	Yes	1. Salmonella positive, Genovar CSTPY1 2. Salmonella positive, Genovar CSTYY1	-
S5	<i>Buttiauxella agrestis</i>	No	No salmonella	-
S6	<i>Salmonella enterica enterica</i> Anatum	Yes	Salmonella Anatum	-
S7	<i>Cronobacter sakazakii</i>	No	No salmonella	-
S8	<i>Salmonella enterica enterica</i> Enteritidis	Yes	1. Salmonella Enteritidis 2. Salmonella Enteritidis	-
S9	<i>Salmonella enterica enterica</i> Montevideo	Yes	Salmonella Montevideo	-
S10	<i>Escherichia coli</i>	No	No salmonella	-
S11	<i>Salmonella enterica enterica</i> Heidelberg	Yes	Salmonella Heidelberg	-
S12	<i>Shigella flexneri</i>	No	No salmonella	-
S13	<i>Salmonella enterica enterica</i> Mbandaka	Yes	Salmonella Mbandaka	-
S14	<i>Salmonella enterica enterica</i> Ouakam	Yes	1. Salmonella positive, Genovar 4XGJJ1 2. Salmonella positive, Genovar 4NGJJ1	-
S15	<i>Salmonella enterica enterica</i> Senftenberg	Yes	Salmonella Senftenberg	-
S16	<i>Salmonella enterica enterica</i> monophasic variant of <i>Salmonella</i> Typhimurium (1,4,[5],12:i:-)	Yes	Salmonella Typhimurium monophasic	-
S17	<i>Salmonella enterica enterica</i> Minnesota	Yes	Salmonella Minnesota	-
S18	<i>Salmonella enterica enterica</i> Jangwani	Yes	1. Salmonella positive, Genovar CSXKJ1 2. Salmonella positive, Genovar CHXKJ1	-
S19	<i>Salmonella enterica enterica</i> Infantis	Yes	Salmonella Infantis	-
S20	<i>Hafnia alvei</i>	No	No salmonella	-
S21	<i>Salmonella enterica enterica</i> Typhimurium	Yes	Salmonella Typhimurium	-
S22	<i>Salmonella enterica enterica</i> Reading	Yes	Salmonella Reading or Sandiego	-
S23	<i>Salmonella enterica enterica</i> Newport	Yes	Salmonella Newport	-

S24	<i>Salmonella enterica enterica</i> Emek	Yes	1. Salmonella positive, Genovar 6RGJT1 2. Salmonella positive, Genovar 6RGJY1	-
S25	<i>Salmonella enterica enterica</i> Hadar	Yes	Salmonella Hadar	-
S26	<i>Klebsiella aerogenes</i>	No	No salmonella	-
S27	<i>Enterobacter aerogenes</i>	No	No salmonella	-
S28	<i>Salmonella enterica enterica</i> Braenderup	Yes	Salmonella Braenderup	-
S29	<i>Salmonella enterica arizonae</i>	Yes	1. Salmonella positive, Genovar 4KG6G1 2. Salmonella positive, Genovar 4KG6G1	-
S30	<i>Citrobacter freundii</i>	No	No salmonella	-
Observations or comments		Analysis S1-S16 on 19-10, analysis S17-S30 on 20-10, rerun on 21-10. PCR system used identical to CTS 2.0-4, but different technician.		

CTS 2.0-6				
Sample code	Strain	Result reference method	Result alternative method	Remarks
S1	<i>Salmonella bongori</i>	Yes	1. Salmonella positive, Genovar 4HG2R1 2. Salmonella positive, Genovar 4HG2R1	-
S2	<i>Salmonella enterica enterica</i> Virchow	Yes	Salmonella Virchow	-
S3	<i>Salmonella enterica enterica</i> Cotham	Yes	1. Salmonella positive, Genovar WHVJP1 2. Salmonella positive, Genovar WSVJP1	-
S4	<i>Salmonella enterica enterica</i> Hartford	Yes	1. Salmonella positive, Genovar CSTPY1 2. Salmonella positive, Genovar CSTPY1	-
S5	<i>Buttiauxella agrestis</i>	No	No salmonella	-
S6	<i>Salmonella enterica enterica</i> Anatum	Yes	Salmonella Anatum	-
S7	<i>Cronobacter sakazakii</i>	No	No salmonella	-
S8	<i>Salmonella enterica enterica</i> Enteritidis	Yes	Salmonella Enteritidis	-
S9	<i>Salmonella enterica enterica</i> Montevideo	Yes	Salmonella Montevideo	-
S10	<i>Escherichia coli</i>	No	No salmonella	-
S11	<i>Salmonella enterica enterica</i> Heidelberg	Yes	Salmonella Heidelberg	-
S12	<i>Shigella flexneri</i>	No	No salmonella	-
S13	<i>Salmonella enterica enterica</i> Mbandaka	Yes	Salmonella Mbandaka	-
S14	<i>Salmonella enterica enterica</i> Ouakam	Yes	1. Salmonella Ouakam 2. Salmonella Ouakam	-
S15	<i>Salmonella enterica enterica</i> Senftenberg	Yes	Salmonella Senftenberg	-
S16	<i>Salmonella enterica enterica</i> monophasic variant of <i>Salmonella</i> Typhimurium (1,4,[5],12:i:-)	Yes	Salmonella Typhimurium monophasic	-
S17	<i>Salmonella enterica enterica</i> Minnesota	Yes	Salmonella Minnesota	-
S18	<i>Salmonella enterica enterica</i> Jangwani	Yes	1. Salmonella positive, Genovar CHXKJ1 2. Salmonella positive, Genovar CHXKJ1	-
S19	<i>Salmonella enterica enterica</i> Infantis	Yes	Salmonella Infantis	-
S20	<i>Hafnia alvei</i>	No	No salmonella	-
S21	<i>Salmonella enterica enterica</i> Typhimurium	Yes	Salmonella Typhimurium	-
S22	<i>Salmonella enterica enterica</i> Reading	Yes	Salmonella Reading or Sandiego	-
S23	<i>Salmonella enterica enterica</i> Newport	Yes	Salmonella Newport	-

S24	<i>Salmonella enterica enterica</i> Emek	Yes	1. Salmonella positive, Genovar 6GGJY1 2. Salmonella positive, Genovar 6GGJY1	-
S25	<i>Salmonella enterica enterica</i> Hadar	Yes	Salmonella Hadar	-
S26	<i>Klebsiella aerogenes</i>	No	No salmonella	-
S27	<i>Enterobacter aerogenes</i>	No	No salmonella	-
S28	<i>Salmonella enterica enterica</i> Braenderup	Yes	Salmonella Braenderup	-
S29	<i>Salmonella enterica arizonae</i>	Yes	1. Salmonella positive, Genovar 4KG6G1 2. Salmonella positive, Genovar 4KG6G1	-
S30	<i>Citrobacter freundii</i>	No	No salmonella	-
Observations or comments		-		

CTS 2.0-7				
Sample code	Strain	Result reference method	Result alternative method	Remarks
S1	<i>Salmonella bongori</i>	Yes	1. Salmonella positive, Genovar 4HG2R1 2. Salmonella positive, Genovar 4HG2R1	-
S2	<i>Salmonella enterica enterica</i> Virchow	Yes	Salmonella Virchow	-
S3	<i>Salmonella enterica enterica</i> Cotham	Yes	1. Salmonella positive, Genovar WSVJP1 2. Salmonella positive, Genovar WHVJP1	-
S4	<i>Salmonella enterica enterica</i> Hartford	Yes	1. Salmonella positive, Genovar CSTPY1 2. Salmonella positive, Genovar CSTPY1	-
S5	<i>Buttiauxella agrestis</i>	No	No salmonella	-
S6	<i>Salmonella enterica enterica</i> Anatum	Yes	Salmonella Anatum	-
S7	<i>Cronobacter sakazakii</i>	No	No salmonella	-
S8	<i>Salmonella enterica enterica</i> Enteritidis	Yes	Salmonella Enteritidis	-
S9	<i>Salmonella enterica enterica</i> Montevideo	Yes	Salmonella Montevideo	-
S10	<i>Escherichia coli</i>	No	No salmonella	-
S11	<i>Salmonella enterica enterica</i> Heidelberg	Yes	Salmonella Heidelberg	-
S12	<i>Shigella flexneri</i>	No	No salmonella	-
S13	<i>Salmonella enterica enterica</i> Mbandaka	Yes	Salmonella Mbandaka	-
S14	<i>Salmonella enterica enterica</i> Ouakam	Yes	Salmonella Ouakam	-
S15	<i>Salmonella enterica enterica</i> Senftenberg	Yes	Salmonella Senftenberg	-
S16	<i>Salmonella enterica enterica</i> monophasic variant of <i>Salmonella</i> Typhimurium (1,4,[5],12:i:-)	Yes	Salmonella Typhimurium monophasic	-
S17	<i>Salmonella enterica enterica</i> Minnesota	Yes	Salmonella Minnesota	-
S18	<i>Salmonella enterica enterica</i> Jangwani	Yes	1. Salmonella positive, Genovar CHXKJ1 2. Salmonella positive, Genovar CHXKJ1	-
S19	<i>Salmonella enterica enterica</i> Infantis	Yes	Salmonella Infantis	-
S20	<i>Hafnia alvei</i>	No	No salmonella	-
S21	<i>Salmonella enterica enterica</i> Typhimurium	Yes	Salmonella Typhimurium	-
S22	<i>Salmonella enterica enterica</i> Reading	Yes	Salmonella Reading or Sandiego	-
S23	<i>Salmonella enterica enterica</i> Newport	Yes	Salmonella Newport	-

S24	<i>Salmonella enterica enterica</i> Emek	Yes	1. Salmonella positive, Genovar 6HGJY1 2. Salmonella positive, Genovar 6GGJY1	-
S25	<i>Salmonella enterica enterica</i> Hadar	Yes	Salmonella Hadar	-
S26	<i>Klebsiella aerogenes</i>	No	No salmonella	-
S27	<i>Enterobacter aerogenes</i>	No	1. Reaction not OK 2. No salmonella	-
S28	<i>Salmonella enterica enterica</i> Braenderup	Yes	1. Salmonella positive, Genovar CXJZY1 2. Salmonella Braenderup	-
S29	<i>Salmonella enterica arizonae</i>	Yes	1. Salmonella positive, Genovar 4KG6G1 2. Salmonella positive, Genovar 4KG6G1	-
S30	<i>Citrobacter freundii</i>	No	No salmonella	-
Observations or comments		-		

CTS 2.0-8				
Sample code	Strain	Result reference method	Result alternative method	Remarks
S1	<i>Salmonella bongori</i>	Yes	1. Salmonella positive, Genovar 4HG2R1 2. Salmonella positive, Genovar 4HR2R1	TSI agar slant (surface) result doubtful
S2	<i>Salmonella enterica enterica</i> Virchow	Yes	1. No DNA detected 2. Salmonella Virchow	-
S3	<i>Salmonella enterica enterica</i> Cotham	Yes	1. Salmonella positive, Genovar WSVJP1 2. Salmonella positive, Genovar WSVJP1	-
S4	<i>Salmonella enterica enterica</i> Hartford	Yes	1. Salmonella positive, Genovar CSTPY1 2. Salmonella positive, Genovar CXTYP1	TSI agar slant (surface) result doubtful
S5	<i>Buttiauxella agrestis</i>	No	No salmonella	Urea agar slant result doubtful
S6	<i>Salmonella enterica enterica</i> Anatum	Yes	Salmonella Anatum	TSI agar slant (surface) result doubtful
S7	<i>Cronobacter sakazakii</i>	No	No salmonella	Doubtful reference method results
S8	<i>Salmonella enterica enterica</i> Enteritidis	Yes	1. Salmonella Enteritidis 2. Salmonella Enteritidis	TSI agar slant (surface) result doubtful
S9	<i>Salmonella enterica enterica</i> Montevideo	Yes	Salmonella Montevideo	TSI agar slant (surface) result doubtful
S10	<i>Escherichia coli</i>	No	No salmonella	2 types of colonies on NA. They become distinct on XLD (black and white). Results alternative method identical. Only black colony tested with reference method. Doubtful reference method results (no LDC medium).
S11	<i>Salmonella enterica enterica</i> Heidelberg	Yes	Salmonella Heidelberg	TSI agar slant (surface) result doubtful
S12	<i>Shigella flexneri</i>	No	No salmonella	Doubtful reference method results
S13	<i>Salmonella enterica enterica</i> Mbandaka	Yes	Salmonella Mbandaka	TSI agar slant (surface) result doubtful
S14	<i>Salmonella enterica enterica</i> Ouakam	Yes	Salmonella Ouakam	TSI agar slant (surface) result doubtful
S15	<i>Salmonella enterica enterica</i> Senftenberg	Yes	1. Salmonella positive, Genovar 4SVKM1 2. Salmonella positive, Genovar 4SKZW1	TSI agar slant (surface) result doubtful; test repeated on 26-10-2022
S16	<i>Salmonella enterica enterica</i> monophasic variant of	Yes	Salmonella Typhimurium monophasic	TSI agar slant (surface) result doubtful

	Salmonella Typhimurium (1,4,[5],12:i:-)			
S17	Salmonella enterica enterica Minnesota	Yes	1. Salmonella positive, Genovar CSSJT1 2. Salmonella Minnesota	-
S18	Salmonella enterica enterica Jangwani	Yes	1. Salmonella positive, Genovar CSXKJ1 2. Salmonella positive, Genovar CSXKJ1	TSI agar slant (surface) result doubtful
S19	Salmonella enterica enterica Infantis	Yes	Salmonella Infantis	-
S20	Hafnia alvei	No	No salmonella	Doubtful reference method results
S21	Salmonella enterica enterica Typhimurium	Yes	Salmonella Typhimurium	TSI agar slant (surface) result doubtful
S22	Salmonella enterica enterica Reading	Yes	1. Salmonella positive, Genovar ESTTW1 2. Salmonella Sandiego or Reading	TSI agar slant (surface) result doubtful
S23	Salmonella enterica enterica Newport	Yes	Salmonella Newport	TSI agar slant (surface) result doubtful
S24	Salmonella enterica enterica Emek	Yes	1. Salmonella positive, Genovar 6RGJY1 2. Salmonella positive, Genovar 6RGJY1	-
S25	Salmonella enterica enterica Hadar	Yes	Salmonella Hadar	TSI agar slant (surface) result doubtful
S26	Klebsiella aerogenes	Yes	No salmonella	TSI agar slant (surface) result doubtful
S27	Enterobacter aerogenes	No	No salmonella	TSI agar slant (surface) result doubtful
S28	Salmonella enterica enterica Braenderup	Yes	Salmonella Braenderup	TSI agar slant (surface) result doubtful
S29	Salmonella enterica arizonae	Yes	1. Salmonella positive, Genovar 4KG6G1 2. Salmonella positive, Genovar 4KG6G1	TSI agar slant (surface) result doubtful
S30	Citrobacter freundii	No	No salmonella	Doubtful reference method results
Observations or comments		-		

CTS 2.0-9				
Sample code	Strain	Result reference method	Result alternative method	Remarks
S1	<i>Salmonella bongori</i>	Yes	1. Salmonella positive, Genovar 4HG2R1 2. Salmonella positive, Genovar 4HG2R1	TSI agar slant (surface) result doubtful
S2	<i>Salmonella enterica enterica</i> Virchow	Yes	Salmonella Virchow	
S3	<i>Salmonella enterica enterica</i> Cotham	Yes	1. Salmonella positive, Genovar WSVJP1 2. Salmonella positive, Genovar WHVJP1	
S4	<i>Salmonella enterica enterica</i> Hartford	Yes	1. Salmonella positive, Genovar CSTPY1 2. Salmonella positive, Genovar CSTPY1	
S5	<i>Buttiauxella agrestis</i>	No	No salmonella	
S6	<i>Salmonella enterica enterica</i> Anatum	Yes	Salmonella Anatum	TSI agar slant (surface) result doubtful
S7	<i>Cronobacter sakazakii</i>	No	No salmonella	
S8	<i>Salmonella enterica enterica</i> Enteritidis	Yes	1. Salmonella Enteritidis 2. Salmonella Enteritidis	
S9	<i>Salmonella enterica enterica</i> Montevideo	Yes	Salmonella Montevideo	
S10	<i>Escherichia coli</i>	No	No salmonella	Bacterial bloom on NA agar
S11	<i>Salmonella enterica enterica</i> Heidelberg	Yes	Salmonella Heidelberg	
S12	<i>Shigella flexneri</i>	No	1. Salmonella positive. Inconclusive typing result 2. No salmonella	
S13	<i>Salmonella enterica enterica</i> Mbandaka	Yes	1. Salmonella positive, Genovar WSRPM1 2. Salmonella positive, Genovar WSRPG1	
S14	<i>Salmonella enterica enterica</i> Ouakam	Yes	1. Ouakam 2. Salmonella positive, Genovar 4NGJJ1	
S15	<i>Salmonella enterica enterica</i> Senftenberg	Yes	Salmonella Senftenberg	
S16	<i>Salmonella enterica enterica</i> monophasic variant of <i>Salmonella</i> Typhimurium (1,4,[5],12:i:-)	Yes	Salmonella Typhimurium monophasic	
S17	<i>Salmonella enterica enterica</i> Minnesota	Yes	Salmonella Minnesota	
S18	<i>Salmonella enterica enterica</i> Jangwani	Yes	1. Salmonella positive, Genovar CSXKJ1 2. Salmonella positive, Genovar CSXKJ1	
S19	<i>Salmonella enterica enterica</i> Infantis	Yes	Salmonella Infantis	
S20	<i>Hafnia alvei</i>	No	No salmonella	
S21	<i>Salmonella enterica enterica</i> Typhimurium	Yes	Salmonella Typhimurium	

S22	<i>Salmonella enterica enterica</i> Reading	Yes	Salmonella Sandiego or Reading	
S23	<i>Salmonella enterica enterica</i> Newport	Yes	Salmonella Newport	
S24	<i>Salmonella enterica enterica</i> Emek	Yes	1. Salmonella positive, Genovar 6GGJY1 2. Salmonella positive, Genovar 6RGJY1	
S25	<i>Salmonella enterica enterica</i> Hadar	Yes	Salmonella Hadar	
S26	<i>Klebsiella aerogenes</i>	No	No salmonella	
S27	<i>Enterobacter aerogenes</i>	No	No salmonella	
S28	<i>Salmonella enterica enterica</i> Braenderup	Yes	Salmonella Braenderup	
S29	<i>Salmonella enterica arizonae</i>	Yes	1. Salmonella positive, Genovar 4KG6G1 2. Salmonella positive, Genovar 4KG6G1	
S30	<i>Citrobacter freundii</i>	No	1. Reaction not OK 2. No salmonella	
Observations or comments		Results on TSI slant agar were difficult to interpret due to the high presence of H ₂ S. PCR was not connected to computer and therefore there was no access to CTS 2.0 Analysis portal. Analysis of the data was not done following the steps described in the IFU.		

CTS 2.0-10				
Sample code	Strain	Result reference method	Result alternative method	Remarks
S1	<i>Salmonella bongori</i>	Yes	1. Salmonella positive, Genovar 4HG2R1 2. Salmonella positive, Genovar 4HG2R1	Urea agar slant result uncertain
S2	<i>Salmonella enterica enterica</i> Virchow	Yes	Salmonella Virchow	-
S3	<i>Salmonella enterica enterica</i> Cotham	Yes	1. Salmonella positive, Genovar WSVJP1 2. Salmonella positive, Genovar WSVJP1	-
S4	<i>Salmonella enterica enterica</i> Hartford	Yes	1. Salmonella positive, Genovar CSTPY1 2. Salmonella positive, Genovar CSTPY1	-
S5	<i>Buttiauxella agrestis</i>	No	No salmonella	-
S6	<i>Salmonella enterica enterica</i> Anatum	Yes	Salmonella Anatum	-
S7	<i>Cronobacter sakazakii</i>	No	No salmonella	-
S8	<i>Salmonella enterica enterica</i> Enteritidis	Yes	Salmonella Enteritidis	-
S9	<i>Salmonella enterica enterica</i> Montevideo	Yes	Salmonella Montevideo	-
S10	<i>Escherichia coli</i>	No	No salmonella	-
S11	<i>Salmonella enterica enterica</i> Heidelberg	Yes	Salmonella Heidelberg	-
S12	<i>Shigella flexneri</i>	No	No salmonella	-
S13	<i>Salmonella enterica enterica</i> Mbandaka	Yes	Salmonella Mbandaka	-
S14	<i>Salmonella enterica enterica</i> Ouakam	Yes	Salmonella Ouakam	-
S15	<i>Salmonella enterica enterica</i> Senftenberg	Yes	Salmonella Senftenberg	-
S16	<i>Salmonella enterica enterica</i> monophasic variant of <i>Salmonella</i> Typhimurium (1,4,[5],12:i:-)	Yes	Salmonella Typhimurium monophasic	-
S17	<i>Salmonella enterica enterica</i> Minnesota	Yes	Salmonella Minnesota	-
S18	<i>Salmonella enterica enterica</i> Jangwani	Yes	1. Salmonella positive, Genovar CHXKJ1 2. Salmonella positive, Genovar CHXKJ1	-
S19	<i>Salmonella enterica enterica</i> Infantis	Yes	Salmonella Infantis	-
S20	<i>Hafnia alvei</i>	No	No salmonella	-
S21	<i>Salmonella enterica enterica</i> Typhimurium	Yes	Salmonella Typhimurium	-
S22	<i>Salmonella enterica enterica</i> Reading	Yes	Salmonella Sandiego or Reading	-
S23	<i>Salmonella enterica enterica</i> Newport	Yes	Salmonella Newport	-

S24	<i>Salmonella enterica enterica</i> Emek	Yes	1. Salmonella positive, Genovar 6GGJY1 2. Salmonella positive, Genovar 6GGJY1	-
S25	<i>Salmonella enterica enterica</i> Hadar	Yes	Salmonella Hadar	-
S26	<i>Klebsiella aerogenes</i>	No	No salmonella	-
S27	<i>Enterobacter aerogenes</i>	No	No salmonella	-
S28	<i>Salmonella enterica enterica</i> Braenderup	Yes	Salmonella Braenderup	-
S29	<i>Salmonella enterica arizonae</i>	Yes	1. Salmonella positive, Genovar 4KG6G1 2. Salmonella positive, Genovar 4KG6G1	-
S30	<i>Citrobacter freundii</i>	No	No salmonella	-
Observations or comments		The non-Salmonella strains showed different morphology and features on XLD than the other strains the others		

CTS 2.0-12				
Sample code	Strain	Result reference method	Result alternative method	Remarks
S1	<i>Salmonella bongori</i>	Yes	1. Salmonella positive, Genovar 4HG2R1 2. Salmonella positive, Genovar 4HG2R1	-
S2	<i>Salmonella enterica enterica</i> Virchow	Yes	Salmonella Virchow	-
S3	<i>Salmonella enterica enterica</i> Cotham	Yes	1. Salmonella positive, Genovar WSVJP1 2. Salmonella positive, Genovar WSVJP1	-
S4	<i>Salmonella enterica enterica</i> Hartford	Yes	1. Salmonella positive, Genovar CSTPY1 2. Salmonella positive, Genovar CSTPY1	-
S5	<i>Buttiauxella agrestis</i>	No	No salmonella	-
S6	<i>Salmonella enterica enterica</i> Anatum	Yes	Salmonella Anatum	-
S7	<i>Cronobacter sakazakii</i>	No	No salmonella	-
S8	<i>Salmonella enterica enterica</i> Enteritidis	Yes	Salmonella Enteritidis	-
S9	<i>Salmonella enterica enterica</i> Montevideo	Yes	Salmonella Montevideo	-
S10	<i>Escherichia coli</i>	No	No salmonella	-
S11	<i>Salmonella enterica enterica</i> Heidelberg	Yes	Salmonella Heidelberg	-
S12	<i>Shigella flexneri</i>	No	No salmonella	-
S13	<i>Salmonella enterica enterica</i> Mbandaka	Yes	Salmonella Mbandaka	-
S14	<i>Salmonella enterica enterica</i> Ouakam	Yes	Salmonella Ouakam	-
S15	<i>Salmonella enterica enterica</i> Senftenberg	Yes	Salmonella Senftenberg	-
S16	<i>Salmonella enterica enterica</i> monophasic variant of <i>Salmonella</i> Typhimurium (1,4,[5],12:i:-)	Yes	Salmonella Typhimurium monophasic	-
S17	<i>Salmonella enterica enterica</i> Minnesota	Yes	Salmonella Minnesota	-
S18	<i>Salmonella enterica enterica</i> Jangwani	Yes	1. Salmonella positive, Genovar CSXKJ1 2. Salmonella positive, Genovar CSXKJ1	-
S19	<i>Salmonella enterica enterica</i> Infantis	Yes	Salmonella Infantis	-
S20	<i>Hafnia alvei</i>	No	No salmonella	-
S21	<i>Salmonella enterica enterica</i> Typhimurium	Yes	Salmonella Typhimurium	-
S22	<i>Salmonella enterica enterica</i> Reading	Yes	Salmonella Reading or Sandiego	-
S23	<i>Salmonella enterica enterica</i> Newport	Yes	Salmonella Newport	-

S24	<i>Salmonella enterica enterica</i> Emek	Yes	1. Salmonella positive, Genovar 6RGJY1 2. Salmonella positive, Genovar 6RGJY1	-
S25	<i>Salmonella enterica enterica</i> Hadar	Yes	Salmonella Hadar	-
S26	<i>Klebsiella aerogenes</i>	No	No salmonella	-
S27	<i>Enterobacter aerogenes</i>	No	No salmonella	-
S28	<i>Salmonella enterica enterica</i> Braenderup	Yes	Salmonella Braenderup	-
S29	<i>Salmonella enterica arizonae</i>	Yes	1. Salmonella positive, Genovar 4KG6G1 2. Salmonella positive, Genovar 4KG6G1	-
S30	<i>Citrobacter freundii</i>	No	No salmonella	-
Observations or comments		-		

CTS 2.0-13				
Sample code	Strain	Result reference method	Result alternative method	Remarks
S1	<i>Salmonella bongori</i>	Yes	1. Salmonella positive, Genovar 4HG2R1 2. Salmonella positive, Genovar 4HG2R1	-
S2	<i>Salmonella enterica enterica</i> Virchow	Yes	Salmonella Virchow	-
S3	<i>Salmonella enterica enterica</i> Cotham	Yes	1. Salmonella positive, Genovar WSVJP1 2. Salmonella positive, Genovar WSVJP1	-
S4	<i>Salmonella enterica enterica</i> Hartford	Yes	1. Salmonella positive, Genovar CSTPY1 2. Salmonella positive, Genovar CSTPY1	-
S5	<i>Buttiauxella agrestis</i>	No	No salmonella	Rahnella aquatilis
S6	<i>Salmonella enterica enterica</i> Anatum	Yes	Salmonella Anatum	-
S7	<i>Cronobacter sakazakii</i>	No	No salmonella	Cronobacter spp
S8	<i>Salmonella enterica enterica</i> Enteritidis	Yes	Salmonella Enteritidis	-
S9	<i>Salmonella enterica enterica</i> Montevideo	Yes	Salmonella Montevideo	-
S10	<i>Escherichia coli</i>	No	1. No salmonella 2. No salmonella	No match found
S11	<i>Salmonella enterica enterica</i> Heidelberg	Yes	Salmonella Heidelberg	-
S12	<i>Shigella flexneri</i>	No	No salmonella	Shigella spp
S13	<i>Salmonella enterica enterica</i> Mbandaka	Yes	Salmonella Mbandaka	
S14	<i>Salmonella enterica enterica</i> Ouakam	Yes	Salmonella Ouakam	-
S15	<i>Salmonella enterica enterica</i> Senftenberg	Yes	Salmonella Senftenberg	-
S16	<i>Salmonella enterica enterica</i> monophasic variant of <i>Salmonella</i> Typhimurium (1,4,[5],12:i:-)	Yes	Salmonella Typhimurium monophasic	-
S17	<i>Salmonella enterica enterica</i> Minnesota	Yes	Salmonella Minnesota	-
S18	<i>Salmonella enterica enterica</i> Jangwani	Yes	1. Salmonella positive, Genovar CSXKJ1 2. Salmonella positive, Genovar CSXKJ1	-
S19	<i>Salmonella enterica enterica</i> Infantis	Yes	Salmonella Infantis	-
S20	<i>Hafnia alvei</i>	No	No salmonella	Hafnia alvei
S21	<i>Salmonella enterica enterica</i> Typhimurium	Yes	Salmonella Typhimurium	-
S22	<i>Salmonella enterica enterica</i> Reading	Yes	Salmonella Sandiego or Reading	Alternative method repeated, result identical

S23	<i>Salmonella enterica enterica</i> Newport	Yes	Salmonella Newport	-
S24	<i>Salmonella enterica enterica</i> Emek	Yes	1. Salmonella positive, Genovar 6RGJY1 2. Salmonella positive, Genovar 6RGJY1	-
S25	<i>Salmonella enterica enterica</i> Hadar	Yes	Salmonella Hadar	-
S26	<i>Klebsiella aerogenes</i>	No	No salmonella	Enterobacter aerogenes
S27	<i>Enterobacter aerogenes</i>	No	No salmonella	Enterobacter aerogenes
S28	<i>Salmonella enterica enterica</i> Braenderup	Yes	Salmonella Braenderup	-
S29	<i>Salmonella enterica arizonae</i>	Yes	1. Salmonella positive, Genovar 4KG6G1 2. Salmonella positive, Genovar 4KG6G1	-
S30	<i>Citrobacter freundii</i>	No	No salmonella	Citrobacter freundii
Observations or comments		-		

CTS 2.0-14				
Sample code	Strain	Result reference method	Result alternative method	Remarks
S1	<i>Salmonella bongori</i>	Yes	1. Salmonella positive, Genovar 4HG2R1 2. Salmonella positive, Genovar 4HG2R1	-
S2	<i>Salmonella enterica enterica</i> Virchow	Yes	Salmonella Virchow	-
S3	<i>Salmonella enterica enterica</i> Cotham	Yes	1. Salmonella positive, Genovar WSVJP1 2. Salmonella positive, Genovar WHVJP1	-
S4	<i>Salmonella enterica enterica</i> Hartford	Yes	1. Salmonella positive, Genovar CSTPY1 2. Salmonella positive, Genovar CSTPY1	-
S5	<i>Buttiauxella agrestis</i>	No	No salmonella	-
S6	<i>Salmonella enterica enterica</i> Anatum	Yes	Salmonella Anatum	-
S7	<i>Cronobacter sakazakii</i>	No	No salmonella	-
S8	<i>Salmonella enterica enterica</i> Enteritidis	Yes	Salmonella Enteritidis	-
S9	<i>Salmonella enterica enterica</i> Montevideo	Yes	Salmonella Montevideo	-
S10	<i>Escherichia coli</i>	No	No salmonella	-
S11	<i>Salmonella enterica enterica</i> Heidelberg	Yes	Salmonella Heidelberg	-
S12	<i>Shigella flexneri</i>	No	No salmonella	-
S13	<i>Salmonella enterica enterica</i> Mbandaka	Yes	Salmonella Mbandaka	-
S14	<i>Salmonella enterica enterica</i> Ouakam	Yes	Salmonella Ouakam	-
S15	<i>Salmonella enterica enterica</i> Senftenberg	Yes	Salmonella Senftenberg	-
S16	<i>Salmonella enterica enterica</i> monophasic variant of <i>Salmonella</i> Typhimurium (1,4,[5],12:i:-)	Yes	Salmonella Typhimurium monophasic	-
S17	<i>Salmonella enterica enterica</i> Minnesota	Yes	Salmonella Minnesota	-
S18	<i>Salmonella enterica enterica</i> Jangwani	Yes	1. Salmonella positive, Genovar CHXKJ1 2. Salmonella positive, Genovar CHXKJ1	-
S19	<i>Salmonella enterica enterica</i> Infantis	Yes	Salmonella Infantis	-
S20	<i>Hafnia alvei</i>	No	No salmonella	-
S21	<i>Salmonella enterica enterica</i> Typhimurium	Yes	Salmonella Typhimurium	-
S22	<i>Salmonella enterica enterica</i> Reading	Yes	Salmonella Sandiego or Reading	-
S23	<i>Salmonella enterica enterica</i> Newport	Yes	Salmonella Newport	-

S24	<i>Salmonella enterica enterica</i> Emek	Yes	1. Salmonella positive, Genovar 6GGJY1 2. Salmonella positive, Genovar 6GGJY1	-
S25	<i>Salmonella enterica enterica</i> Hadar	Yes	Salmonella Hadar	-
S26	<i>Klebsiella aerogenes</i>	No	No salmonella	-
S27	<i>Enterobacter aerogenes</i>	No	No salmonella	-
S28	<i>Salmonella enterica enterica</i> Braenderup	Yes	Salmonella Braenderup	-
S29	<i>Salmonella enterica arizonae</i>	Yes	1. Salmonella positive, Genovar 4KG6G1 2. Salmonella positive, Genovar 4KG6G1	-
S30	<i>Citrobacter freundii</i>	No	No salmonella	-
Observations or comments		No batch code and expiry date information on the TSI and LDC media		

CTS 2.0-15				
Sample code	Strain	Result reference method	Result alternative method	Remarks
S1	<i>Salmonella bongori</i>	Yes	1. Salmonella positive, Genovar 4HG2R1 2. Salmonella positive, Genovar 4HG2R1	-
S2	<i>Salmonella enterica enterica</i> Virchow	Yes	Salmonella Virchow	-
S3	<i>Salmonella enterica enterica</i> Cotham	Yes	1. Salmonella positive, Genovar WSVJP1 2. Salmonella positive, Genovar WSVJP1	-
S4	<i>Salmonella enterica enterica</i> Hartford	Yes	1. Salmonella positive, Genovar CSTPY1 2. Salmonella positive, Genovar CSTYY1	-
S5	<i>Buttiauxella agrestis</i>	No	No salmonella	-
S6	<i>Salmonella enterica enterica</i> Anatum	Yes	Salmonella Anatum	-
S7	<i>Cronobacter sakazakii</i>	No	No salmonella	-
S8	<i>Salmonella enterica enterica</i> Enteritidis	Yes	Salmonella Enteritidis	-
S9	<i>Salmonella enterica enterica</i> Montevideo	Yes	Salmonella Montevideo	-
S10	<i>Escherichia coli</i>	No	No salmonella	-
S11	<i>Salmonella enterica enterica</i> Heidelberg	Yes	Salmonella Heidelberg	-
S12	<i>Shigella flexneri</i>	No	No salmonella	-
S13	<i>Salmonella enterica enterica</i> Mbandaka	Yes	Salmonella Mbandaka	-
S14	<i>Salmonella enterica enterica</i> Ouakam	Yes	Salmonella Ouakam	-
S15	<i>Salmonella enterica enterica</i> Senftenberg	Yes	Salmonella Senftenberg	-
S16	<i>Salmonella enterica enterica</i> monophasic variant of <i>Salmonella</i> Typhimurium (1,4,[5],12:i:-)	Yes	Salmonella Typhimurium monophasic	-
S17	<i>Salmonella enterica enterica</i> Minnesota	Yes	Salmonella Minnesota	-
S18	<i>Salmonella enterica enterica</i> Jangwani	Yes	1. Salmonella positive, Genovar CHXKJ1 2. Salmonella positive, Genovar CSXKJ1	-
S19	<i>Salmonella enterica enterica</i> Infantis	Yes	Salmonella Infantis	-
S20	<i>Hafnia alvei</i>	No	No salmonella	-
S21	<i>Salmonella enterica enterica</i> Typhimurium	Yes	Salmonella Typhimurium	-
S22	<i>Salmonella enterica enterica</i> Reading	Yes	Salmonella Sandiego or Reading	-
S23	<i>Salmonella enterica enterica</i> Newport	Yes	Salmonella Newport	-

S24	<i>Salmonella enterica enterica</i> Emek	Yes	1. Salmonella positive, Genovar 6RGJY1 2. Salmonella positive, Genovar 6RGTY1	-
S25	<i>Salmonella enterica enterica</i> Hadar	Yes	Salmonella Hadar	-
S26	<i>Klebsiella aerogenes</i>	No	No salmonella	-
S27	<i>Enterobacter aerogenes</i>	No	No salmonella	-
S28	<i>Salmonella enterica enterica</i> Braenderup	Yes	Salmonella Braenderup	-
S29	<i>Salmonella enterica arizonae</i>	Yes	1. Salmonella positive, Genovar 4KG6G1 2. Salmonella positive, Genovar 4KG6G1	-
S30	<i>Citrobacter freundii</i>	No	No salmonella	-
Observations or comments		-		