CERTIFICATION

AOAC® *Performance Tested*SM

Certificate No.

051601

The AOAC Research Institute hereby certifies the test kit known as:

Solus Scientific *Salmonella* ELISA

manufactured by

Solus Scientific Ltd.
Unit 9 Mansfield Networkcentre
Millennium Business Park
Concorde Way, Mansfield
Nottinghamshire, NG9 7JZ

This method has been evaluated in the AOAC® *Performance Tested Methods*SM Program and found to perform as stated by the manufacturer contingent to the comments contained in the manuscript. This certificate means that an AOAC® Certification Mark License Agreement has been executed which authorizes the manufacturer to display the AOAC *Performance Tested*SM certification mark along with the statement - "THIS METHOD'S PERFORMANCE WAS REVIEWED BY AOAC RESEARCH INSTITUTE AND WAS FOUND TO PERFORM TO THE MANUFACTURER'S SPECIFICATIONS" - on the above mentioned method for a period of one calendar year from the date of this certificate (February 27, 2020 – December 31, 2020). Renewal may be granted at the end of one year under the rules stated in the licensing agreement.

Scott Coates

Scott Coates, Senior Director
Signature for AOAC Research Institute

February 27, 2020
Date

2275 Research Blvd., Ste. 300, Rockville, Maryland, USA Telephone: +1-301-924-7077 Fax: +1-301-924-7089
Internet e-mail: aoacri@aoac.org * World Wide Web Site: http://www.aoac.org

METHOD AUTHORS
Ben Bastin, Alison DeShields, Patrick Bird, M. Joseph Benzinger, Jr., Erin Crowley, James Agin, David Goins, Ray Wakefield, Simon Illingworth, and Paul Wells

SUBMITTING COMPANY
Solus Scientific Ltd.
Millennium Business Park
Concorde Way, Mansfield
Nottinghamshire, NG9 7JZ United Kingdom

KIT NAME(S)
Solus Scientific *Salmonella* ELISA

CATALOG NUMBERS
SAL0096S, SAL0480S

INDEPENDENT LABORATORY
Q Laboratories, Inc.
1400 Harrison Ave
Cincinnati, OH
USA

AOAC EXPERTS AND PEER REVIEWERS
Yi Chen[1], Michael Brodsky[2], Yvonne Salfinger[3]
[1] US FDA CFSAN, College Park, MD, USA
[2] Brodsky Consultants, Thornhill, Ontario, Canada
[3] Consultant, Denver, CO, USA

APPLICABILITY OF METHOD
Target organism – *Salmonella* species

Matrixes – (25g) – raw chicken breast, raw salmon filet, bagged romaine lettuce, shredded cheddar cheese, instant non-fat dry milk, shell eggs
(375 g) raw beef trim
stainless steel environmental surface (swab, 1 x 1 in), polystyrene environmental surface (sponge, 4 x 4 in)

Performance claims - The Solus Scientific *Salmonella* ELISA method is equivalent to the reference methods.

REFERENCE METHODS
United States Department of Agriculture Microbiological Laboratory Guidelines 4.08: *Isolation and Identification of Salmonella from Red Meat, Poultry, Pasteurized Egg, Catfish Products, and Environmental Sponges*. June 29th, 2014. (Accessed October 2015)
http://www.fsis.usda.gov/wps/wcm/connect/700c05fe-06a2-492a-a6e1-3357f7701f52/MLG-4.pdf?MOD=AJPERES (2)
Food and Drug Administration Bacteriological Analytical Manual Chapter 5: *Salmonella*. February, 2014. (Accessed October 2015)
http://www.fda.gov/Food/FoodScienceResearch/LaboratoryMethods/ucm070149.htm (3)

ORIGINAL CERTIFICATION DATE
May 04, 2016

CERTIFICATION RENEWAL RECORD
Renewed annually through December 2020

METHOD MODIFICATION RECORD
1. **December 2018 Level 1**
2. **February 2020 Level 1**

SUMMARY OF MODIFICATION
1. **Editorial/clerical changes to text to bring the language and style in line with more recently approved products.**
2. **Rebranding from Solus Scientific to PerkinElmer. Combined 1 and 5 plate kits into single IFU.**

Under this AOAC® *Performance Tested*SM License Number, 051601 this method is distributed by:
NONE

Under this AOAC® *Performance Tested*SM License Number, 051601 this method is distributed as:
NONE

PRINCIPLE OF THE METHOD (1)
The Solus Scientific *Salmonella* ELISA method is used for the rapid and specific detection of *Salmonella* species in enriched food and environmental samples.
The Solus Scientific *Salmonella* ELISA method relies on antibodies attaches to the wells of the microplate strips that are specific to *Salmonella* antigens. Samples are heat treated and an aliquot is added to the antibody coated wells.
Salmonella specific antigens present in the samples will bind immunologically to the antibody. After washing to remove unbound material, an enzyme-labeled antibody will bind to the proteins and thus to the well. After a second wash step to remove any unbound enzyme-antibody, the enzyme substrate is added. The substrate reacts in the presence of the enzyme producing a blue color change in the sample well. The substrate reaction is stopped after 30 minutes with the addition of dilute sulphuric acid changing any blue color present in the wells to yellow. [4]

DISCUSSION OF THE VALIDATION STUDY (1)

The inclusivity study showed the Solus *Salmonella* ELISA had a high specificity for the *Salmonella* species but one limitation was noted for *Salmonella arizonae*, since the assay did not detect all the strains from this subspecies.

The exclusivity study showed the Solus *Salmonella* ELISA had a high specificity and the few crossreactions observed with a small number of strains after a non-selective enrichment in BPW were all eliminated after the subculture in the selective broth, RVS. Since the enrichment protocol for food matrixes and environmental surfaces always includes a second enrichment step in RVS, the crossreactions remain limited.

The Solus Scientific *Salmonella* ELISA methods successfully recovered *Salmonella* species from all of the matrixes and environmental surfaces analyzed. Using POD analysis, no statistically significant differences were observed between the number of positive samples detected by the candidate method and each of the reference methods for all matrixes and environmental surfaces tested.

After results of the original analysis of the raw chicken breast were obtained, an investigation into the cause of the discrepant results was performed. The samples that produced the false positive results in the first round of testing, displayed previously in Table D, had notably higher absorbance values (OD_{450} of ~0.250-0.425) than what would be expected for a typical negative sample (OD_{450} < 0.0.050). These results suggested two potential sources for the issues: a cross reaction with background flora or an issue with the lot of the testing media, RVS (i.e. an issue with the specificity of this lot of media). For all of the matrixes evaluated, the raw chicken breast had the second highest background microflora (APC of $>10^5$ CFU/g) and further identification of the background flora was conducted. Several colonies recovered from the selective agar plates were struck for isolation onto non-selective agar for further biochemical analysis. Two species were predominately isolated, *Pseudomonas aeruginosa* and *Hafnia alvei.*

When tested with the Somatic Polyvalent O antisera, these two strains cross reacted strongly with the antisera indicating the potential for cross reaction with *Salmonella* antibodies. The combination of the high absorbance readings, may indicate that these strains were able to grow in the lot of RVS and produce a cross reaction with the assay. Discussions with the manufacturer of the RVS indicated that the different sources for the raw materials, including ingredients designed to make the media select, were being used and could be one of the factors that lead to the discrepant results. To determine if the issue was specific to that lot of media, or that lot of chicken breast, a second set of raw chicken breast samples were analyzed. For the retest of the raw chicken breast, two lots of Solus Scientific RVS (the original lot and a newly manufactured lot) and a third lot of Accumedia brand RVS were evaluated. Based on the results obtained from the retest, summarized in Table E, it does not appear that the lot or brand of the media was the definitive cause, nor does it appear that the matrix itself is the issue. No definitive cause of the issues was identified, but for matrixes with high microbial backgrounds, special note should be taken with all presumptive positive samples.

The manual and the automated methods for the Solus Scientific *Salmonella* ELISA method are quick and simple to perform, providing results in less than 2 hours post incubation of the selective enrichment for 30 sample replicates. The method offers the benefit of the use of both the manual method and the automated method to obtain results. The small footprint of both methods offers the ability to test in various laboratories. The Dynex DS2 software is user friendly with the ability to track lot information and sample identification quickly and with ease. The Dynex DS2 software and instrument also offer the ability to run multiple assays at one time and has an open platform.

Table 19: Solus Scientific *Salmonella* ELISA, Candidate* vs. Reference – POD Results (1)

Matrix/Test Portion	Strain	ELISA Method	MPN[a]/ Test Portion	N[b]	Candidate			Reference			dPOD$_C$[f]	95% CI[g]
					x[c]	POD$_C$[d]	95% CI	X	POD$_R$[e]	95% CI		
Raw Beef Trim (375 g)	*Salmonella* Typhimurium ATCC 14028	Manual	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			0.49 (0.17, 0.69)	20	9	0.45	0.26, 0.66	6	0.30	0.15, 0.52	0.15	-0.14, 0.41
			3.76 (1.55, 9.10)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43
Matrix/Test Portion	**Strain**	**ELISA Method**	**MPN[a]/ Test Portion**	**N[b]**	**Candidate**			**Reference**			**dPOD$_C$[f]**	**95% CI[g]**
					x[c]	**POD$_C$[d]**	**95% CI**	**X**	**POD$_R$[e]**	**95% CI**		
Raw Chicken Breast (25 g)	*Salmonella* Enteritidis ATCC 13076	Automated	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			0.61 (0.33, 1.02)	20	11	0.55	0.34, 0.74	9	0.45	0.26, 0.66	0.10	-0.19, 0.37
			4.38 (1.72, 11.15)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43
Matrix/Test Portion	**Strain**	**ELISA Method**	**MPN[a]/ Test Portion**	**N[b]**	**Candidate**			**Reference**			**dPOD$_C$[f]**	**95% CI[g]**
					x[c]	**POD$_C$[d]**	**95% CI**	**X**	**POD$_R$[e]**	**95% CI**		
Raw Chicken Breast (25 g)	*Salmonella* Enteritidis ATCC 13076	Manual	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			0.61 (0.33, 1.02)	20	11	0.55	0.34, 0.74	9	0.45	0.26, 0.66	0.10	-0.19, 0.37
			4.38 (1.72, 11.15)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43
Matrix/Test Portion	**Strain**	**ELISA Method**	**MPN[a]/ Test Portion**	**N[b]**	**Candidate**			**Reference**			**dPOD$_C$[f]**	**95% CI[g]**
					x[c]	**POD$_C$[d]**	**95% CI**	**X**	**POD$_R$[e]**	**95% CI**		
Raw Salmon Filet (25 g)	*Salmonella* Senftenberg ATCC 43845	Manual	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			0.61 (0.33, 1.02)	20	8	0.40	0.22, 0.61	9	0.45	0.26, 0.66	-0.05	-0.33, 0.24
			3.01 (1.31, 6.89)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43

*The alternative and traditional confirmation both produced identical results

[a]MPN = Most Probable Number is calculated using the LCF MPN calculator provided by AOAC RI, with 95% confidence interval

[b]N = Number of test portions

[c]x = Number of positive test portions

[d]POD$_C$ = Candidate method confirmed positive outcomes divided by the total number of trials

[e]POD$_R$ = Reference method confirmed positive outcomes divided by the total number of trials

[f]dPOD$_C$= Difference between the confirmed candidate method result and reference method confirmed result POD values

[g]95% CI = If the confidence interval of a dPOD does not contain zero, then the difference is statistically significant at the 5% level

Table 20: Solus Scientific *Salmonella* ELISA, Candidate* vs. Reference – POD Results (1)

Matrix/Test Portion	Strain	ELISA Method	MPN[a]/ Test Portion	N[b]	Candidate			Reference			dPOD$_C$[f]	95% CI[g]
					x[c]	POD$_C$[d]	95% CI	X	POD$_R$[e]	95% CI		
Bagged Romaine Lettuce (25 g)	*Salmonella* Hadar ATCC 51956	Manual	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			0.38 (0.17, 0.67)	20	7	0.35	0.18, 0.57	6	0.30	0.15, 0.52	0.05	-0.23, 0.32
			3.01 (1.31, 6.89)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43
Matrix/Test Portion	**Strain**	**ELISA Method**	**MPN[a]/ Test Portion**	**N[b]**	**Candidate**			**Reference**			**dPOD$_C$[f]**	**95% CI[g]**
					x[c]	**POD$_C$[d]**	**95% CI**	**X**	**POD$_R$[e]**	**95% CI**		
Shredded Cheddar Cheese (25 g)	*Salmonella* Heidelberg NCTC 5717	Manual	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			0.46 (0.23, 0.78)	20	9	0.45	0.26, 0.66	6	0.30	0.15, 0.52	0.15	-0.14, 0.41
			2.29 (1.04, 5.02)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43
Matrix/Test Portion	**Strain**	**ELISA Method**	**MPN[a]/ Test Portion**	**N[b]**	**Candidate**			**Reference**			**dPOD$_C$[f]**	**95% CI[g]**
					x[c]	**POD$_C$[d]**	**95% CI**	**X**	**POD$_R$[e]**	**95% CI**		
Instant Non-Fat Dry Milk (25 g)	*Salmonella* Abony NCTC 6017	Manual	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			0.49 (0.25, 0.85)	20	6	0.30	0.15, 0.52	7	0.35	0.18, 0.57	-0.05	-0.32, 0.23
			3.01 (1.31, 6.89)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43
Matrix/Test Portion	**Strain**	**ELISA Method**	**MPN[a]/ Test Portion**	**N[b]**	**Candidate**			**Reference**			**dPOD$_C$[f]**	**95% CI[g]**
					x[c]	**POD$_C$[d]**	**95% CI**	**X**	**POD$_R$[e]**	**95% CI**		
Shell Eggs (25 g)	*Salmonella* Jerusalem QL 024.12	Automated	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			0.98 (0.60, 1.69)	20	15	0.75	0.53, 0.89	12	0.60	0.39, 0.78	0.15	-0.13, 0.40
			4.38 (1.72, 11.2)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43
Matrix/Test Portion	**Strain**	**ELISA Method**	**MPN[a]/ Test Portion**	**N[b]**	**Candidate**			**Reference**			**dPOD$_C$[f]**	**95% CI[g]**
					x[c]	**POD$_C$[d]**	**95% CI**	**X**	**POD$_R$[e]**	**95% CI**		
Shell Eggs (25 g)	*Salmonella* Jerusalem QL 024.12	Manual	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			0.98 (0.60, 1.69)	20	15	0.75	0.53, 0.89	12	0.60	0.39, 0.78	0.15	-0.13, 0.40
			4.38 (1.72, 11.2)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43

*The alternative and traditional confirmation both produced identical results.

[a]MPN = Most Probable Number is calculated using the LCF MPN calculator provided by AOAC RI, with 95% confidence interval

[b]N = Number of test portions

[c]x = Number of positive test portions

[d]POD$_C$ = Candidate method confirmed positive outcomes divided by the total number of trials

[e]POD$_R$ = Reference method confirmed positive outcomes divided by the total number of trials

[f]dPOD$_C$= Difference between the confirmed candidate method result and reference method confirmed result POD values

[g]95% CI = If the confidence interval of a dPOD does not contain zero, then the difference is statistically significant at the 5% level

Table 21: Solus Scientific *Salmonella* ELISA, Candidate* vs. Reference – POD Results (1)

Matrix	Strain	ELISA Method	CFU[a]/ Test Area	N[b]	Candidate			Reference			dPOD$_C$[f]	95% CI[g]
					x[c]	POD$_C$[d]	95% CI	X	POD$_R$[e]	95% CI		
Stainless Steel	*Salmonella* Typhimurium ATCC BAA-215 & *Citrobacter freundii* ATCC 8090	Automated	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			35 & 210	20	9	0.45	0.26, 0.66	8	0.40	0.34, 0.74	0.05	-0.24, 0.33
			440 & 1200	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43
Matrix	**Strain**	**ELISA Method**	**CFU[a]/ Test Area**	**N[b]**	**Candidate**			**Reference**			**dPOD$_C$[f]**	**95% CI[g]**
					x[c]	**POD$_C$[d]**	**95% CI**	**X**	**POD$_R$[e]**	**95% CI**		
Stainless Steel	*Salmonella* Typhimurium ATCC BAA-215 & *Citrobacter freundii* ATCC 8090	Manual	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			32 & 510	20	9	0.45	0.26, 0.66	8	0.40	0.43, 0.82	0.05	-0.24, 0.33
			400 & 3700	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43
Matrix	**Strain**	**ELISA Method**	**CFU[a]/ Test Area**	**N[b]**	**Candidate**			**Reference**			**dPOD$_C$[f]**	**95% CI[g]**
					x[c]	**POD$_C$[d]**	**95% CI**	**X**	**POD$_R$[e]**	**95% CI**		
Polystyrene	*Salmonella* Montevideo ATCC 8387 & *E. coli* ATCC 8090	Manual	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			40 & 390	20	6	0.30	0.15, 0.52	7	0.35	0.26, 0.66	-0.05	-0.32, 0.23
			320 & 2200	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43

*The alternative and traditional confirmation produced identical results.

[a]CFU/Test Area = Results of the CFU/Test area were determined by plating the inoculum for each matrix in triplicate

[b]N = Number of test portions

[c]x = Number of positive test portions

[d]POD$_C$ = Candidate method confirmed positive outcomes divided by the total number of trials

[e]POD$_R$ = Reference method confirmed positive outcomes divided by the total number of trials

[f]dPOD$_C$= Difference between the confirmed candidate method result and reference method confirmed result POD values

[g]95% CI = If the confidence interval of a dPOD does not contain zero, then the difference is statistically significant at the 5% level

Table 22: Solus Scientific *Salmonella* ELISA, Presumptive vs. Alternative Confirmed – POD Results (1)

Matrix/Test Portion	Strain	ELISA Method	MPN[a]/ Test Portion	N[b]	Presumptive			Confirmed			dPOD$_{CP}$[f]	95% CI[g]
					x[c]	POD$_{CP}$[d]	95% CI	X	POD$_{CC}$[e]	95% CI		
Raw Beef Trim (375 g)	*Salmonella* Typhimurium ATCC 14028	Manual	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			0.49 (0.17, 0.69)	20	9	0.45	0.26, 0.66	9	0.45	0.26, 0.66	0.00	-0.28, 0.28
			3.76 (1.55, 9.10)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43
Matrix/Test Portion	**Strain**	**ELISA Method**	**MPN[a]/ Test Portion**	**N[b]**	**Presumptive**			**Confirmed**			**dPOD$_{CP}$[f]**	**95% CI[g]**
					x[c]	**POD$_{CP}$[d]**	**95% CI**	**X**	**POD$_{CC}$[e]**	**95% CI**		
Raw Chicken Breast (25 g)	*Salmonella* Enteritidis ATCC 13076	Automated	-	5	2	0.40	0.12, 0.77	0	0.00	0.00, 0.43	0.40	-0.12, 0.77
			0.61 (0.33, 1.02)	20	15	0.75	0.53, 0.89	11	0.55	0.34, 0.74	0.20	-0.09, 0.45
			4.38 (1.72, 11.15)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43
Matrix/Test Portion	**Strain**	**ELISA Method**	**MPN[a]/ Test Portion**	**N[b]**	**Presumptive**			**Confirmed**			**dPOD$_{CP}$[f]**	**95% CI[g]**
					x[c]	**POD$_{CP}$[d]**	**95% CI**	**X**	**POD$_{CC}$[e]**	**95% CI**		
Raw Chicken Breast (25 g)	*Salmonella* Enteritidis ATCC 13076	Manual	-	5	2	0.40	0.12, 0.77	0	0.00	0.00, 0.43	0.40	-0.12, 0.77
			0.61 (0.33, 1.02)	20	13	0.65	0.43, 0.82	11	0.55	0.34, 0.74	0.10	-0.19, 0.37
			4.38 (1.72, 11.15)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43
Matrix/Test Portion	**Strain**	**ELISA Method**	**MPN[a]/ Test Portion**	**N[b]**	**Presumptive**			**Confirmed**			**dPOD$_{CP}$[f]**	**95% CI[g]**
					x[c]	**POD$_{CP}$[d]**	**95% CI**	**X**	**POD$_{CC}$[e]**	**95% CI**		
Raw Salmon Filet (25 g)	*Salmonella* Senftenberg ATCC 43845	Manual	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			0.61 (0.33, 1.02)	20	8	0.40	0.22, 0.61	8	0.40	0.22, 0.61	0.00	-0.28, 0.28
			3.01 (1.31, 6.89)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43

[a]MPN = Most Probable Number is calculated using the LCF MPN calculator provided by AOAC RI, with 95% confidence interval

[b]N = Number of test portions

[c]x = Number of positive test portions

[d]POD$_{CP}$ = Candidate method presumptive positive outcomes divided by the total number of trials

[e]POD$_{CC}$ = Candidate method confirmed positive outcomes divided by the total number of trials

[f]dPOD$_{CP}$= Difference between the candidate method presumptive result and candidate method confirmed result POD values

[g]95% CI = If the confidence interval of a dPOD does not contain zero, then the difference is statistically significant at the 5% level

Table 23: Solus Scientific *Salmonella* ELISA, Presumptive vs. Alternative Confirmed – POD Results (1)

Matrix/Test Portion	Strain	ELISA Method	MPN[a]/ Test Portion	N[b]	Presumptive			Confirmed			dPOD$_{CP}$[f]	95% CI[g]
					x[c]	POD$_{CP}$[d]	95% CI	X	POD$_{CC}$[e]	95% CI		
Bagged Romaine Lettuce (25 g)	*Salmonella* Hadar ATCC 51956	Manual	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			0.38 (0.17, 0.67)	20	8	0.40	0.22, 0.61	7	0.35	0.18, 0.57	0.05	-0.23, 0.32
			3.01 (1.31, 6.89)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43
Matrix/Test Portion	**Strain**	**ELISA Method**	**MPN[a]/ Test Portion**	**N[b]**	**Presumptive**			**Confirmed**			**dPOD$_{CP}$[f]**	**95% CI[g]**
					x[c]	**POD$_{CP}$[d]**	**95% CI**	**X**	**POD$_{CC}$[e]**	**95% CI**		
Shredded Cheddar Cheese (25 g)	*Salmonella* Heidelberg NCTC 5717	Manual	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			0.46 (0.23, 0.78)	20	9	0.45	0.26, 0.66	9	0.45	0.26, 0.66	0.00	-0.28, 0.28
			2.29 (1.04, 5.02)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43
Matrix/Test Portion	**Strain**	**ELISA Method**	**MPN[a]/ Test Portion**	**N[b]**	**Presumptive**			**Confirmed**			**dPOD$_{CP}$[f]**	**95% CI[g]**
					x[c]	**POD$_{CP}$[d]**	**95% CI**	**X**	**POD$_{CC}$[e]**	**95% CI**		
Instant Non-Fat Dry Milk (25 g)	*Salmonella* Abony NCTC 6017	Manual	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			0.49 (0.25, 0.85)	20	6	0.30	0.15, 0.52	6	0.30	0.15, 0.52	0.00	-0.27, 0.27
			3.01 (1.31, 6.89)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43
Matrix/Test Portion	**Strain**	**ELISA Method**	**MPN[a]/ Test Portion**	**N[b]**	**Presumptive**			**Confirmed**			**dPOD$_{CP}$[f]**	**95% CI[g]**
					x[c]	**POD$_{CP}$[d]**	**95% CI**	**X**	**POD$_{CC}$[e]**	**95% CI**		
Shell Eggs (25 g)	*Salmonella* Jerusalem QL 024.12	Automated	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			0.98 (0.60, 1.69)	20	15	0.75	0.53, 0.89	15	0.75	0.53, 0.89	0.00	-0.26, 0.26
			4.38 (1.72, 11.2)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43
Matrix/Test Portion	**Strain**	**ELISA Method**	**MPN[a]/ Test Portion**	**N[b]**	**Presumptive**			**Confirmed**			**dPOD$_{CP}$[f]**	**95% CI[g]**
					x[c]	**POD$_{CP}$[d]**	**95% CI**	**X**	**POD$_{CC}$[e]**	**95% CI**		
Shell Eggs (25 g)	*Salmonella* Jerusalem QL 024.12	Manual	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			0.98 (0.60, 1.69)	20	15	0.75	0.53, 0.89	15	0.75	0.53, 0.89	0.00	-0.26, 0.26
			4.38 (1.72, 11.2)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43

[a]MPN = Most Probable Number is calculated using the LCF MPN calculator provided by AOAC RI, with 95% confidence interval

[b]N = Number of test portions

[c]x = Number of positive test portions

[d]POD$_{CP}$ = Candidate method presumptive positive outcomes divided by the total number of trials

[e]POD$_{CC}$ = Candidate method confirmed positive outcomes divided by the total number of trials

[f]dPOD$_{CP}$= Difference between the candidate method presumptive result and candidate method confirmed result POD values

[g]95% CI = If the confidence interval of a dPOD does not contain zero, then the difference is statistically significant at the 5% level

Table 24: Solus Scientific *Salmonella* ELISA, Presumptive vs. Alternative Confirmed – POD Results (1)

Matrix	Strain	ELISA Method	CFU[a]/ Test Area	N[b]	Presumptive			Confirmed			dPOD$_{CP}$[f]	95% CI[g]
					x[c]	POD$_{CP}$[d]	95% CI	X	POD$_{CC}$[e]	95% CI		
Stainless Steel	*Salmonella* Typhimurium ATCC BAA-215 & *Citrobacter freundii* ATCC 8090	Automated	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			35 & 210	20	9	0.45	0.26, 0.66	9	0.45	0.26, 0.66	0.00	-0.28, 0.28
			440 & 1200	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43
Matrix	**Strain**	**ELISA Method**	**CFU[a]/ Test Area**	**N[b]**	**Presumptive**			**Confirmed**			**dPOD$_{CP}$[f]**	**95% CI[g]**
					x[c]	**POD$_{CP}$[d]**	**95% CI**	**X**	**POD$_{CC}$[e]**	**95% CI**		
Stainless Steel	*Salmonella* Typhimurium ATCC BAA-215 & *Citrobacter freundii* ATCC 8090	Manual	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			35 & 210	20	9	0.45	0.26, 0.66	9	0.45	0.26, 0.66	0.00	-0.28, 0.28
			440 & 1200	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43
Matrix	**Strain**	**ELISA Method**	**CFU[a]/ Test Area**	**N[b]**	**Presumptive**			**Confirmed**			**dPOD$_{CP}$[f]**	**95% CI[g]**
					x[c]	**POD$_{CP}$[d]**	**95% CI**	**X**	**POD$_{CC}$[e]**	**95% CI**		
Polystyrene	*Salmonella* Montevideo ATCC 8387 & *E. coli* ATCC 8090	Manual	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			40 & 390	20	6	0.30	0.15, 0.52	6	0.30	0.15, 0.52	0.00	-0.27, 0.27
			320 & 2200	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43

[a]CFU/Test Area = Results of the CFU/Test area were determined by plating the inoculum for each matrix in triplicate
[b]N = Number of test portions
[c]x = Number of positive test portions
[d]POD$_{CP}$ = Candidate method presumptive positive outcomes divided by the total number of trials
[e]POD$_{CC}$ = Candidate method confirmed positive outcomes divided by the total number of trials
[f]dPOD$_{CP}$= Difference between the candidate method presumptive result and candidate method confirmed result POD values
[g]95% CI = If the confidence interval of a dPOD does not contain zero, then the difference is statistically significant at the 5% level

Table 25: Solus Scientific *Salmonella* ELISA, Presumptive vs. Traditional Confirmed – POD Results (1)

Matrix/Test Portion	Strain	ELISA Method	MPN[a]/ Test Portion	N[b]	Presumptive			Confirmed			dPOD$_{CP}$[f]	95% CI[g]
					x[c]	POD$_{CP}$[d]	95% CI	X	POD$_{CC}$[e]	95% CI		
Raw Beef Trim (375 g)	*Salmonella* Typhimurium ATCC 14028	Manual	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			0.49 (0.17, 0.69)	20	9	0.45	0.26, 0.66	9	0.45	0.26, 0.66	0.00	-0.28, 0.28
			3.76 (1.55, 9.10)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43
Matrix/Test Portion	**Strain**	**ELISA Method**	**MPN[a]/ Test Portion**	**N[b]**	**Presumptive**			**Confirmed**			**dPOD$_{CP}$[f]**	**95% CI[g]**
					x[c]	**POD$_{CP}$[d]**	**95% CI**	**X**	**POD$_{CC}$[e]**	**95% CI**		
Raw Chicken Breast (25 g)	*Salmonella* Enteritidis ATCC 13076	Automated	-	5	2	0.40	0.12, 0.77	0	0.00	0.00, 0.43	0.40	-0.12, 0.77
			0.61 (0.33, 1.02)	20	15	0.75	0.53, 0.89	11	0.55	0.34, 0.74	0.20	-0.09, 0.45
			4.38 (1.72, 11.15)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43
Matrix/Test Portion	**Strain**	**ELISA Method**	**MPN[a]/ Test Portion**	**N[b]**	**Presumptive**			**Confirmed**			**dPOD$_{CP}$[f]**	**95% CI[g]**
					x[c]	**POD$_{CP}$[d]**	**95% CI**	**X**	**POD$_{CC}$[e]**	**95% CI**		
Raw Chicken Breast (25 g)	*Salmonella* Enteritidis ATCC 13076	Manual	-	5	2	0.40	0.12, 0.77	0	0.00	0.00, 0.43	0.40	-0.12, 0.77
			0.61 (0.33, 1.02)	20	13	0.65	0.43, 0.82	11	0.55	0.34, 0.74	0.10	-0.19, 0.37
			4.38 (1.72, 11.15)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43
Matrix/Test Portion	**Strain**	**ELISA Method**	**MPN[a]/ Test Portion**	**N[b]**	**Presumptive**			**Confirmed**			**dPOD$_{CP}$[f]**	**95% CI[g]**
					x[c]	**POD$_{CP}$[d]**	**95% CI**	**X**	**POD$_{CC}$[e]**	**95% CI**		
Raw Salmon Filet (25 g)	*Salmonella* Senftenberg ATCC 43845	Manual	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			0.61 (0.33, 1.02)	20	8	0.40	0.22, 0.61	8	0.40	0.22, 0.61	0.00	-0.28, 0.28
			3.01 (1.31, 6.89)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43

[a]MPN = Most Probable Number is calculated using the LCF MPN calculator provided by AOAC RI, with 95% confidence interval
[b]N = Number of test portions
[c]x = Number of positive test portions
[d]POD$_{CP}$ = Candidate method presumptive positive outcomes divided by the total number of trials
[e]POD$_{CC}$ = Candidate method confirmed positive outcomes divided by the total number of trials
[f]dPOD$_{CP}$= Difference between the candidate method presumptive result and candidate method confirmed result POD values
[g]95% CI = If the confidence interval of a dPOD does not contain zero, then the difference is statistically significant at the 5% level

Table 26: Solus Scientific *Salmonella* ELISA, Presumptive vs. Traditional Confirmed – POD Results (1)

Matrix/Test Portion	Strain	ELISA Method	MPN[a]/ Test Portion	N[b]	Presumptive			Confirmed			dPOD$_{CP}$[f]	95% CI[g]
					x[c]	POD$_{CP}$[d]	95% CI	X	POD$_{CC}$[e]	95% CI		
Bagged Romaine Lettuce (25 g)	*Salmonella* Hadar ATCC 51956	Manual	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			0.38 (0.17, 0.67)	20	8	0.40	0.22, 0.61	7	0.35	0.18, 0.57	0.05	-0.23, 0.32
			3.01 (1.31, 6.89)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43
Matrix/Test Portion	**Strain**	**ELISA Method**	**MPN[a]/ Test Portion**	**N[b]**	**Presumptive**			**Confirmed**			**dPOD$_{CP}$[f]**	**95% CI[g]**
					x[c]	**POD$_{CP}$[d]**	**95% CI**	**X**	**POD$_{CC}$[e]**	**95% CI**		
Shredded Cheddar Cheese (25 g)	*Salmonella* Heidelberg NCTC 5717	Manual	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			0.46 (0.23, 0.78)	20	9	0.45	0.26, 0.66	9	0.45	0.26, 0.66	0.00	-0.28, 0.28
			2.29 (1.04, 5.02)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43
Matrix/Test Portion	**Strain**	**ELISA Method**	**MPN[a]/ Test Portion**	**N[b]**	**Presumptive**			**Confirmed**			**dPOD$_{CP}$[f]**	**95% CI[g]**
					x[c]	**POD$_{CP}$[d]**	**95% CI**	**X**	**POD$_{CC}$[e]**	**95% CI**		
Instant Non-Fat Dry Milk (25 g)	*Salmonella* Abony NCTC 6017	Manual	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			0.49 (0.25, 0.85)	20	6	0.30	0.15, 0.52	6	0.30	0.15, 0.52	0.00	-0.27, 0.27
			3.01 (1.31, 6.89)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43
Matrix/Test Portion	**Strain**	**ELISA Method**	**MPN[a]/ Test Portion**	**N[b]**	**Presumptive**			**Confirmed**			**dPOD$_{CP}$[f]**	**95% CI[g]**
					x[c]	**POD$_{CP}$[d]**	**95% CI**	**X**	**POD$_{CC}$[e]**	**95% CI**		
Shell Eggs (25 g)	*Salmonella* Jerusalem QL 024.12	Automated	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			0.98 (0.60, 1.69)	20	15	0.75	0.53, 0.89	15	0.75	0.53, 0.89	0.00	-0.26, 0.26
			4.38 (1.72, 11.2)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43
Matrix/Test Portion	**Strain**	**ELISA Method**	**MPN[a]/ Test Portion**	**N[b]**	**Presumptive**			**Confirmed**			**dPOD$_{CP}$[f]**	**95% CI[g]**
					x[c]	**POD$_{CP}$[d]**	**95% CI**	**X**	**POD$_{CC}$[e]**	**95% CI**		
Shell Eggs (25 g)	*Salmonella* Jerusalem QL 024.12	Manual	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			0.98 (0.60, 1.69)	20	15	0.75	0.53, 0.89	15	0.75	0.53, 0.89	0.00	-0.26, 0.26
			4.38 (1.72, 11.2)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43

[a]MPN = Most Probable Number is calculated using the LCF MPN calculator provided by AOAC RI, with 95% confidence interval
[b]N = Number of test portions
[c]x = Number of positive test portions
[d]POD$_{CP}$ = Candidate method presumptive positive outcomes divided by the total number of trials
[e]POD$_{CC}$ = Candidate method confirmed positive outcomes divided by the total number of trials
[f]dPOD$_{CP}$= Difference between the candidate method presumptive result and candidate method confirmed result POD values
[g]95% CI = If the confidence interval of a dPOD does not contain zero, then the difference is statistically significant at the 5% level

Table 27: Solus Scientific *Salmonella* ELISA, Presumptive vs. Traditional Confirmed – POD Results (1)

Matrix	Strain	ELISA Method	CFU[a]/ Test Area	N[b]	Presumptive			Confirmed			dPOD$_{CP}$[f]	95% CI[g]
					x[c]	POD$_{CP}$[d]	95% CI	X	POD$_{CC}$[e]	95% CI		
Stainless Steel	*Salmonella* Typhimurium ATCC BAA-215 & *Citrobacter freundii* ATCC 8090	Automated	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			35 & 210	20	9	0.45	0.26, 0.66	9	0.45	0.26, 0.66	0.00	-0.28, 0.28
			440 & 1200	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43
Matrix	**Strain**	**ELISA Method**	**CFU[a]/ Test Area**	**N[b]**	**Presumptive**			**Confirmed**			**dPOD$_{CP}$[f]**	**95% CI[g]**
					x[c]	**POD$_{CP}$[d]**	**95% CI**	**X**	**POD$_{CC}$[e]**	**95% CI**		
Stainless Steel	*Salmonella* Typhimurium ATCC BAA-215 & *Citrobacter freundii* ATCC 8090	Manual	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			35 & 210	20	9	0.45	0.26, 0.66	9	0.45	0.26, 0.66	0.00	-0.28, 0.28
			440 & 1200	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43
Matrix	**Strain**	**ELISA Method**	**CFU[a]/ Test Area**	**N[b]**	**Presumptive**			**Confirmed**			**dPOD$_{CP}$[f]**	**95% CI[g]**
					x[c]	**POD$_{CP}$[d]**	**95% CI**	**X**	**POD$_{CC}$[e]**	**95% CI**		
Polystyrene	*Salmonella* Montevideo ATCC 8387 & *E. coli* ATCC 8090	Manual	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			40 & 390	20	6	0.30	0.15, 0.52	6	0.30	0.15, 0.52	0.00	-0.27, 0.27
			320 & 2200	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43

[a]CFU/Test Area = Results of the CFU/Test area were determined by plating the inoculum for each matrix in triplicate
[b]N = Number of test portions
[c]x = Number of positive test portions
[d]POD$_{CP}$ = Candidate method presumptive positive outcomes divided by the total number of trials
[e]POD$_{CC}$ = Candidate method confirmed positive outcomes divided by the total number of trials
[f]dPOD$_{CP}$= Difference between the candidate method presumptive result and candidate method confirmed result POD values
[g]95% CI = If the confidence interval of a dPOD does not contain zero, then the difference is statistically significant at the 5% level

Table 28: Solus Scientific *Salmonella* ELISA Raw Chicken Breast Retest, Candidate* vs. Reference – POD Results (1)

Media Formulation	Strain	ELISA Method	MPN[a]/ Test Portion	N[b]	Candidate			Reference			dPOD$_C$[f]	95% CI[g]
					x[c]	POD$_C$[d]	95% CI	X	POD$_R$[e]	95% CI		
Solus Scientific RVS Original Lot	*Salmonella* Enteritidis ATCC 13076	Manual	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			0.45 (0.22, 0.78)	20	7	0.35	0.18, 0.57	7	0.35	0.18, 0.57	0.00	-0.28, 0.28
			3.01 (1.31, 6.89)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43
Media Formulation	**Strain**	**ELISA Method**	**MPN[a]/ Test Portion**	**N[b]**	**Candidate**			**Reference**			**dPOD$_C$[f]**	**95% CI[g]**
					x[c]	**POD$_C$[d]**	**95% CI**	**X**	**POD$_R$[e]**	**95% CI**		
Solus Scientific RVS New Lot	*Salmonella* Enteritidis ATCC 13076	Manual	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			0.45 (0.22, 0.78)	20	7	0.35	0.18, 0.57	7	0.35	0.18, 0.57	0.00	-0.28, 0.28
			3.01 (1.31, 6.89)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43
Media Formulation	**Strain**	**ELISA Method**	**MPN[a]/ Test Portion**	**N[b]**	**Candidate**			**Reference**			**dPOD$_C$[f]**	**95% CI[g]**
					x[c]	**POD$_C$[d]**	**95% CI**	**X**	**POD$_R$[e]**	**95% CI**		
Accumedia RVS	*Salmonella* Enteritidis ATCC 13076	Manual	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			0.45 (0.22, 0.78)	20	7	0.35	0.18, 0.57	7	0.35	0.18, 0.57	0.00	-0.28, 0.28
			3.01 (1.31, 6.89)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43
Media Formulation	**Strain**	**ELISA Method**	**MPN[a]/ Test Portion**	**N[b]**	**Candidate**			**Reference**			**dPOD$_C$[f]**	**95% CI[g]**
					x[c]	**POD$_C$[d]**	**95% CI**	**X**	**POD$_R$[e]**	**95% CI**		
RV-R10	*Salmonella* Enteritidis ATCC 13076	Manual	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			0.45 (0.22, 0.78)	20	7	0.35	0.18, 0.57	7	0.35	0.18, 0.57	0.00	-0.28, 0.28
			3.01 (1.31, 6.89)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43

*The alternative and traditional confirmation both produced identical results

[a]MPN = Most Probable Number is calculated using the LCF MPN calculator provided by AOAC RI, with 95% confidence interval

[b]N = Number of test portions

[c]x = Number of positive test portions

[d]POD$_C$ = Candidate method confirmed positive outcomes divided by the total number of trials

[e]POD$_R$ = Reference method confirmed positive outcomes divided by the total number of trials

[f]dPOD$_C$= Difference between the confirmed candidate method result and reference method confirmed result POD values

[g]95% CI = If the confidence interval of a dPOD does not contain zero, then the difference is statistically significant at the 5% level

Table 29: Solus Scientific *Salmonella* ELISA Raw Chicken Breast Retest, Candidate* vs. Reference – POD Results (1)

Media Formulation	Strain	ELISA Method	MPN[a]/ Test Portion	N[b]	Candidate			Reference			dPOD$_C$[f]	95% CI[g]
					x[c]	POD$_C$[d]	95% CI	X	POD$_R$[e]	95% CI		
Solus Scientific RVS Original Lot	*Salmonella* Enteritidis ATCC 13076	Automated	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			0.45 (0.22, 0.78)	20	7	0.35	0.18, 0.57	7	0.35	0.18, 0.57	0.00	-0.28, 0.28
			3.01 (1.31, 6.89)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43
Media Formulation	**Strain**	**ELISA Method**	**MPN[a]/ Test Portion**	**N[b]**	**Candidate**			**Reference**			**dPOD$_C$[f]**	**95% CI[g]**
					x[c]	**POD$_C$[d]**	**95% CI**	**X**	**POD$_R$[e]**	**95% CI**		
Solus Scientific RVS New Lot	*Salmonella* Enteritidis ATCC 13076	Automated	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			0.45 (0.22, 0.78)	20	7	0.35	0.18, 0.57	7	0.35	0.18, 0.57	0.00	-0.28, 0.28
			3.01 (1.31, 6.89)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43
Media Formulation	**Strain**	**ELISA Method**	**MPN[a]/ Test Portion**	**N[b]**	**Candidate**			**Reference**			**dPOD$_C$[f]**	**95% CI[g]**
					x[c]	**POD$_C$[d]**	**95% CI**	**X**	**POD$_R$[e]**	**95% CI**		
Accumedia RVS	*Salmonella* Enteritidis ATCC 13076	Automated	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			0.45 (0.22, 0.78)	20	7	0.35	0.18, 0.57	7	0.35	0.18, 0.57	0.00	-0.28, 0.28
			3.01 (1.31, 6.89)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43
Media Formulation	**Strain**	**ELISA Method**	**MPN[a]/ Test Portion**	**N[b]**	**Candidate**			**Reference**			**dPOD$_C$[f]**	**95% CI[g]**
					x[c]	**POD$_C$[d]**	**95% CI**	**X**	**POD$_R$[e]**	**95% CI**		
RV-R10	*Salmonella* Enteritidis ATCC 13076	Automated	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			0.45 (0.22, 0.78)	20	7	0.35	0.18, 0.57	7	0.35	0.18, 0.57	0.00	-0.28, 0.28
			3.01 (1.31, 6.89)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43

*The alternative and traditional confirmation both produced identical results

[a]MPN = Most Probable Number is calculated using the LCF MPN calculator provided by AOAC RI, with 95% confidence interval

[b]N = Number of test portions

[c]x = Number of positive test portions

[d]POD$_C$ = Candidate method confirmed positive outcomes divided by the total number of trials

[e]POD$_R$ = Reference method confirmed positive outcomes divided by the total number of trials

[f]dPOD$_C$= Difference between the confirmed candidate method result and reference method confirmed result POD values

[g]95% CI = If the confidence interval of a dPOD does not contain zero, then the difference is statistically significant at the 5% level

Table 30: Solus Scientific *Salmonella* ELISA Raw Chicken Breast Retest, Presumptive vs. Alternative Confirmed – POD Results (1)

Media Formulation	Strain	ELISA Method	MPN[a]/ Test Portion	N[b]	Presumptive			Confirmed			$dPOD_{CP}$[f]	95% CI[g]
					x[c]	POD_{CP}[d]	95% CI	X	POD_{CC}[e]	95% CI		
Solus Scientific RVS Original Lot	*Salmonella* Enteritidis ATCC 13076	Manual	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			0.45 (0.22, 0.78)	20	7	0.35	0.18, 0.57	7	0.35	0.18, 0.57	0.00	-0.28, 0.28
			3.01 (1.31, 6.89)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43
Media Formulation	Strain	ELISA Method	MPN[a]/ Test Portion	N[b]	Presumptive			Confirmed			$dPOD_{CP}$[f]	95% CI[g]
					x[c]	POD_{CP}[d]	95% CI	X	POD_{CC}[e]	95% CI		
Solus Scientific RVS Original Lot	*Salmonella* Enteritidis ATCC 13076	Manual	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			0.45 (0.22, 0.78)	20	7	0.35	0.18, 0.57	7	0.35	0.18, 0.57	0.00	-0.28, 0.28
			3.01 (1.31, 6.89)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43
Media Formulation	Strain	ELISA Method	MPN[a]/ Test Portion	N[b]	Presumptive			Confirmed			$dPOD_{CP}$[f]	95% CI[g]
					x[c]	POD_{CP}[d]	95% CI	X	POD_{CC}[e]	95% CI		
Solus Scientific RVS Original Lot	*Salmonella* Enteritidis ATCC 13076	Manual	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			0.45 (0.22, 0.78)	20	7	0.35	0.18, 0.57	7	0.35	0.18, 0.57	0.00	-0.28, 0.28
			3.01 (1.31, 6.89)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43
Media Formulation	Strain	ELISA Method	MPN[a]/ Test Portion	N[b]	Presumptive			Confirmed			$dPOD_{CP}$[f]	95% CI[g]
					x[c]	POD_{CP}[d]	95% CI	X	POD_{CC}[e]	95% CI		
Solus Scientific RVS Original Lot	*Salmonella* Enteritidis ATCC 13076	Manual	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			0.45 (0.22, 0.78)	20	7	0.35	0.18, 0.57	7	0.35	0.18, 0.57	0.00	-0.28, 0.28
			3.01 (1.31, 6.89)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43

[a]MPN = Most Probable Number is calculated using the LCF MPN calculator provided by AOAC RI, with 95% confidence interval
[b]N = Number of test portions
[c]x = Number of positive test portions
[d]POD_{CP} = Candidate method presumptive positive outcomes divided by the total number of trials
[e]POD_{CC} = Candidate method confirmed positive outcomes divided by the total number of trials
[f]$dPOD_{CP}$= Difference between the candidate method presumptive result and candidate method confirmed result POD values
[g]95% CI = If the confidence interval of a dPOD does not contain zero, then the difference is statistically significant at the 5% level

Table 31: Solus Scientific *Salmonella* ELISA Raw Chicken Breast Retest, Presumptive vs. Alternative Confirmed – POD Results (1)

Media Formulation	Strain	ELISA Method	MPN[a]/ Test Portion	N[b]	Presumptive			Confirmed			$dPOD_{CP}$[f]	95% CI[g]
					x[c]	POD_{CP}[d]	95% CI	X	POD_{CC}[e]	95% CI		
Solus Scientific RVS Original Lot	*Salmonella* Enteritidis ATCC 13076	Automated	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			0.45 (0.22, 0.78)	20	7	0.35	0.18, 0.57	7	0.35	0.18, 0.57	0.00	-0.28, 0.28
			3.01 (1.31, 6.89)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43

Media Formulation	Strain	ELISA Method	MPN[a]/ Test Portion	N[b]	Presumptive			Confirmed			$dPOD_{CP}$[f]	95% CI[g]
					x[c]	POD_{CP}[d]	95% CI	X	POD_{CC}[e]	95% CI		
Solus Scientific RVS Original Lot	*Salmonella* Enteritidis ATCC 13076	Automated	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			0.45 (0.22, 0.78)	20	7	0.35	0.18, 0.57	7	0.35	0.18, 0.57	0.00	-0.28, 0.28
			3.01 (1.31, 6.89)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43

Media Formulation	Strain	ELISA Method	MPN[a]/ Test Portion	N[b]	Presumptive			Confirmed			$dPOD_{CP}$[f]	95% CI[g]
					x[c]	POD_{CP}[d]	95% CI	X	POD_{CC}[e]	95% CI		
Solus Scientific RVS Original Lot	*Salmonella* Enteritidis ATCC 13076	Automated	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			0.45 (0.22, 0.78)	20	7	0.35	0.18, 0.57	7	0.35	0.18, 0.57	0.00	-0.28, 0.28
			3.01 (1.31, 6.89)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43

Media Formulation	Strain	ELISA Method	MPN[a]/ Test Portion	N[b]	Presumptive			Confirmed			$dPOD_{CP}$[f]	95% CI[g]
					x[c]	POD_{CP}[d]	95% CI	X	POD_{CC}[e]	95% CI		
Solus Scientific RVS Original Lot	*Salmonella* Enteritidis ATCC 13076	Automated	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			0.45 (0.22, 0.78)	20	7	0.35	0.18, 0.57	7	0.35	0.18, 0.57	0.00	-0.28, 0.28
			3.01 (1.31, 6.89)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43

[a]MPN = Most Probable Number is calculated using the LCF MPN calculator provided by AOAC RI, with 95% confidence interval
[b]N = Number of test portions
[c]x = Number of positive test portions
[d]POD_{CP} = Candidate method presumptive positive outcomes divided by the total number of trials
[e]POD_{CC} = Candidate method confirmed positive outcomes divided by the total number of trials
[f]$dPOD_{CP}$= Difference between the candidate method presumptive result and candidate method confirmed result POD values
[g]95% CI = If the confidence interval of a dPOD does not contain zero, then the difference is statistically significant at the 5% level

Table 32: Solus Scientific *Salmonella* ELISA Raw Chicken Breast Retest, Presumptive vs. Traditional Confirmed – POD Results (1)

Media Formulation	Strain	ELISA Method	MPN[a]/ Test Portion	N[b]	Presumptive			Confirmed			dPOD$_{CP}$[f]	95% CI[g]
					x[c]	POD$_{CP}$[d]	95% CI	X	POD$_{CC}$[e]	95% CI		
Solus Scientific RVS Original Lot	*Salmonella* Enteritidis ATCC 13076	Manual	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			0.45 (0.22, 0.78)	20	7	0.35	0.18, 0.57	7	0.35	0.18, 0.57	0.00	-0.28, 0.28
			3.01 (1.31, 6.89)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43
Media Formulation	Strain	ELISA Method	MPN[a]/ Test Portion	N[b]	Presumptive			Confirmed			dPOD$_{CP}$[f]	95% CI[g]
					x[c]	POD$_{CP}$[d]	95% CI	X	POD$_{CC}$[e]	95% CI		
Solus Scientific RVS Original Lot	*Salmonella* Enteritidis ATCC 13076	Manual	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			0.45 (0.22, 0.78)	20	7	0.35	0.18, 0.57	7	0.35	0.18, 0.57	0.00	-0.28, 0.28
			3.01 (1.31, 6.89)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43
Media Formulation	Strain	ELISA Method	MPN[a]/ Test Portion	N[b]	Presumptive			Confirmed			dPOD$_{CP}$[f]	95% CI[g]
					x[c]	POD$_{CP}$[d]	95% CI	X	POD$_{CC}$[e]	95% CI		
Solus Scientific RVS Original Lot	*Salmonella* Enteritidis ATCC 13076	Manual	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			0.45 (0.22, 0.78)	20	7	0.35	0.18, 0.57	7	0.35	0.18, 0.57	0.00	-0.28, 0.28
			3.01 (1.31, 6.89)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43
Media Formulation	Strain	ELISA Method	MPN[a]/ Test Portion	N[b]	Presumptive			Confirmed			dPOD$_{CP}$[f]	95% CI[g]
					x[c]	POD$_{CP}$[d]	95% CI	X	POD$_{CC}$[e]	95% CI		
Solus Scientific RVS Original Lot	*Salmonella* Enteritidis ATCC 13076	Manual	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			0.45 (0.22, 0.78)	20	7	0.35	0.18, 0.57	7	0.35	0.18, 0.57	0.00	-0.28, 0.28
			3.01 (1.31, 6.89)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43

[a]MPN = Most Probable Number is calculated using the LCF MPN calculator provided by AOAC RI, with 95% confidence interval
[b]N = Number of test portions
[c]x = Number of positive test portions
[d]POD$_{CP}$ = Candidate method presumptive positive outcomes divided by the total number of trials
[e]POD$_{CC}$ = Candidate method confirmed positive outcomes divided by the total number of trials
[f]dPOD$_{CP}$= Difference between the candidate method presumptive result and candidate method confirmed result POD values
[g]95% CI = If the confidence interval of a dPOD does not contain zero, then the difference is statistically significant at the 5% level

Table 33: Solus Scientific *Salmonella* ELISA Raw Chicken Breast Retest, Presumptive vs. Traditional Confirmed – POD Results (1)

Media Formulation	Strain	ELISA Method	MPN[a]/ Test Portion	N[b]	Presumptive			Confirmed			$dPOD_{CP}$[f]	95% CI[g]
					x[c]	POD_{CP}[d]	95% CI	X	POD_{CC}[e]	95% CI		
Solus Scientific RVS Original Lot	*Salmonella* Enteritidis ATCC 13076	Automated	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			0.45 (0.22, 0.78)	20	7	0.35	0.18, 0.57	7	0.35	0.18, 0.57	0.00	-0.28, 0.28
			3.01 (1.31, 6.89)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43

Media Formulation	Strain	ELISA Method	MPN[a]/ Test Portion	N[b]	Presumptive			Confirmed			$dPOD_{CP}$[f]	95% CI[g]
					x[c]	POD_{CP}[d]	95% CI	X	POD_{CC}[e]	95% CI		
Solus Scientific RVS Original Lot	*Salmonella* Enteritidis ATCC 13076	Automated	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			0.45 (0.22, 0.78)	20	7	0.35	0.18, 0.57	7	0.35	0.18, 0.57	0.00	-0.28, 0.28
			3.01 (1.31, 6.89)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43

Media Formulation	Strain	ELISA Method	MPN[a]/ Test Portion	N[b]	Presumptive			Confirmed			$dPOD_{CP}$[f]	95% CI[g]
					x[c]	POD_{CP}[d]	95% CI	X	POD_{CC}[e]	95% CI		
Solus Scientific RVS Original Lot	*Salmonella* Enteritidis ATCC 13076	Automated	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			0.45 (0.22, 0.78)	20	7	0.35	0.18, 0.57	7	0.35	0.18, 0.57	0.00	-0.28, 0.28
			3.01 (1.31, 6.89)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43

Media Formulation	Strain	ELISA Method	MPN[a]/ Test Portion	N[b]	Presumptive			Confirmed			$dPOD_{CP}$[f]	95% CI[g]
					x[c]	POD_{CP}[d]	95% CI	X	POD_{CC}[e]	95% CI		
Solus Scientific RVS Original Lot	*Salmonella* Enteritidis ATCC 13076	Automated	-	5	0	0.00	0.00, 0.43	0	0.00	0.00, 0.43	0.00	-0.43, 0.43
			0.45 (0.22, 0.78)	20	7	0.35	0.18, 0.57	7	0.35	0.18, 0.57	0.00	-0.28, 0.28
			3.01 (1.31, 6.89)	5	5	1.00	0.57, 1.00	5	1.00	0.57, 1.00	0.00	-0.43, 0.43

[a]MPN = Most Probable Number is calculated using the LCF MPN calculator provided by AOAC RI, with 95% confidence interval
[b]N = Number of test portions
[c]x = Number of positive test portions
[d]POD_{CP} = Candidate method presumptive positive outcomes divided by the total number of trials
[e]POD_{CC} = Candidate method confirmed positive outcomes divided by the total number of trials
[f]$dPOD_{CP}$= Difference between the candidate method presumptive result and candidate method confirmed result POD values
[g]95% CI = If the confidence interval of a dPOD does not contain zero, then the difference is statistically significant at the 5% level

Table 34: Inclusivity Results – First Testing done by Adria Développement Expert Laboratory – 55 strains (1)

Organism	Source	Origin	Result	Organism	Source	Origin	Result
Salmonella Agona	A00[1] V38	Feedstuff	+	*Salmonella* Kedougou	Ad[1] 929	Environmental sample	+
Salmonella Anatum	Ad[1] 6140	Bœuf Bourguignon	+	*Salmonella* Kottbus	ADRIA[1] 1	Environmental sample	+
Salmonella arizonae S IIIa 51:z4,z23:-	CIP[3] 5523	Turkey	-	*Salmonella* Livingstone	ADRIA[1] E1	Egg white powder	+
Salmonella arizonae S IIIa 44:z4,z23:z32:-	CIP[3] 5522	Not available	-	*Salmonella* London	ADRIA[1] 326	Ham	+
Salmonella arizonae SIIIa 50 ;z4 ;z23	CIP[3] 5526	Egg powder	+	*Salmonella* Manhattan	ADRIA[1] 900	Dairy environmental sample	+
Salmonella diarizonae S IIIb 38:IV:z53	Ad[1] 451	Raw milk cheese	+	*Salmonella* Mbandaka	Ad[1] 914	Mayonnaise	+
Salmonella diarizonae S IIIb 61:-:,1,5,7	Ad[1] 1280	Raw milk cheese	+	*Salmonella* Montevideo	Ad[1] 912	Raw milk	+
Salmonella Blockley	Ad[1?] 923	Chicken	+	*Salmonella* Napoli	Ad[1] 928	Bovine	+
Salmonella Bovismorbificans	ADRIA[1] 728	Agar	+	*Salmonella* Newport	ADRIA[1] 540	Toulouse sausage	+
Salmonella Braenderup	ADRIA[1] 178	Food product	+	*Salmonella* Panama	ADRIA[1] 195	Ground beef	+
Salmonella Brandenburg	Ad[1?] 351	Seafood	+	*Salmonella* Paratyphi A	ATCC[2] 9150	Not available	+
Salmonella Bredeney	ADRIA[1] 396	Ground beef	+	*Salmonella* Paratyphi B	Ad[1] 301	Clinical	+
Salmonella Cerro	Ad[1?] 689	Dehydrated proteins	+	*Salmonella* Paratyphi C	ATCC[2] 13428	Not available	+
Salmonella Cremieu	ADRIA[1] 230	Hare	+	*Salmonella* Regent	ADRIA[1] 328	Duck	+
Salmonella Derby	Ad[1] 1093	Frozen fish fillet	+	*Salmonella* Rissen	ADRIA[1] 39	Poultry	+
Salmonella Dublin	Ad[1] 528	Beef meat	+	*Salmonella* Saintpaul	ADRIA[1] F31	Pilchard fillet	+
Salmonella Enteritidis	Ad[1] 926	Raw veal meat	+	*Salmonella salamae* S II 42:b:enxz	Ad[1] 593	Cereals	+
Salmonella Gallinarum	Ad[1] 300	Poultry slaughterhouse	-	*Salmonella* Senftenberg	Ad[1] 355	Seafood	+
Salmonella Give	ADRIA[1] 436	Ground beef	+	*Salmonella* Typhi	Ad[1] 302	Clinical	+
Salmonella Hadar	ADRIA[1] 35	Poultry	+	*Salmonella* Typhimurium	ADRIA[1] 305	Paella	+
Salmonella Havana	Ad[1] 930	Poultry	+	*Salmonella* Typhimurium SI 1,4 [5], 12 :- :-	Ad[1] 1333	Tiramisu	+
Salmonella Heidelberg	A00[1] E005	Dairy industry environmental sample	+	*Salmonella* Typhimurium SI 1,4 [5], 12 : i : -	Ad[1] 1334	Ready-to-eat meal	+
Salmonella houtenae S IV 43:z4z32	Ad[1?] 597	Fish	+	*Salmonella* Typhimurium	Ad[1]1335	Environmental sample	+
Salmonella Indiana	ADRIA[1] 2	Fish flour	+	*Salmonella* Urbana	Ad[1] 501	Food product	+
Salmonella indica S VI 1,26,14,25:a:enx	Ad[1?] 600	Environmental sample	+	*Salmonella* Virchow	ADRIA[1] F276	Curry	+
Salmonella Infantis	ADRIA[1] 12	Ready-to-eat	+	*Salmonella* Gallinarum	ADRIA[1] 3778	Not available	+
Salmonella Gallinarum	ADRIA 11006	Not available	+	*Salmonella* Gallinarum	ADRIA[1] 8202	Not available	+
Salmonella Gallinarum	ADRIA 154	Not available	+				

[1]ADRIA culture collection - [2]ATCC-American Type Culture Collection – [3]CIP- Collection of Institut Pasteur

Table 35: Inclusivity Results – Second Testing done by Solus Scientific – 54 strains (1)

Organism	Source	Origin	Result	Organism	Source	Origin	Result
Salmonella Abaetatuba	NCTC[1] 8244	Not available	+	*Salmonella* Goldcoast	NCTC[1] 13175	Not available	+
Salmonella Aberdeen	NCTC[1] 5791	Not available	+	*Salmonella* Heves	NCTC[1] 6755	Not available	+
Salmonella Abortusequi	NEX 1624	Food product	+	*Salmonella* Hvittingfoss	NEX[2] 1467	Not available	+
Salmonella Adelaide	NCTC[1] 6586	Not available	+	*Salmonella* Inverness	NCTC[1] 6591	Not available	+
Salmonella Anatum	NEX[2] 1724	Canola	+	*Salmonella* Kirkee	NCTC[1] 5798	Not available	+
Salmonella arizonae	NCTC[1] 7301	Not available	+	*Salmonella* Lagos	NEX[2] 703	Beef meat	+
Salmonella arizonae	NCTC[1] 7349	Not available	+	*Salmonella* Lille	NEX[2] 296	Not available	+
Salmonella arizonae	SOL[2] 0369	Food product	-	*Salmonella* Meleagridis	NEX[2] 742	Not available	+
Salmonella arizonae	SOL[2] 0370	Food product	+	*Salmonella* Minnesota	NCTC[1] 5800	Not available	+
Salmonella Aschersleben	NEX[2] 1906	Not available	+	*Salmonella* Mississippi	Solus[2] WT	Not available	+
Salmonella Bergen	NEX[2] 1644	Not available	+	*Salmonella* Muenchen	NEX[2] 1326	Not available	+
Salmonella Bracknell	NCTC[1] 9852	Not available	+	*Salmonella* Newport	SOL[2] 0368	Beef meat	+
Salmonella Brazil	NCTC[1] 18446	Not available	+	*Salmonella* Nima	NEX[2] 1881	Not available	+
Salmonella Brookfield	NCTC[1] 10946	Not available	+	*Salmonella* Nitra	NCTC[1] 6297	Not available	+
Salmonella Champaign	NCTC[1] 10433	Not available	+	*Salmonella* Nottingham	NCTC[1] 7832	Not available	+
Salmonella Caracas	NEX[2] 1785	Food product	+	*Salmonella* Oukam	NEX[2] 837	Not available	+
Salmonella Chester	NEX[2] 862	Duck liver	+	*Salmonella* Oranienburg	NCTC[1] 5743	Not available	+
Salmonella Cubana	NEX[2] 1829	Not available	+	*Salmonella* Poona	NCTC[1] 5792	Not available	+
Salmonella Dahlem	NCTC[1] 9949	Not available	+	*Salmonella* Ramatgan	NEX[2] 311	Not available	+
Salmonella diarizonae	SOL[2] 0371	Food product	+	*Salmonella* Reading	NEX[2] 919	River water	+
Salmonella diarizonae	SOL[2] 0372	Food product	+	*Salmonella* Salford	NEX[2] 1698	Food product	+
Salmonella Dugbe	NCTC[1] 10347	Not available	+	*Salmonella* Stuivenberg	NEX[2] 702	Beef meat	+
Salmonella Duval	NCTC[1] 9875	Not available	+	*Salmonella* Thompson	NEX[2] 1569	Food product	+
Salmonella Eilbeck	NCTC[1] 10381	Not available	+	*Salmonella* Tranoroa	NCTC[1] 10252	Not available	+
Salmonella Essen	NCTC[1] 3045	Not available	+	*Salmonella* Typhimurium non motile	Solus[2] WT	Not available	+
Salmonella Ferlac	NCTC[1] 10458	Not available	+	*Salmonella* Umbilo	NEX[2] 1413	Not available	+
Salmonella Gallinarum	Solus[2] EQA	Not available	+	*Salmonella* Worthington	NEX[2] 1880	Not available	+

[1]NCTC: National Collection of Type Cultures – [2]NEX & SOL; SOLUS collections

Table 36: Exclusivity Results – First Testing done by Adria Développement Expert Laboratory – 30 strains (1)

Organism	Source	Origin	Result	Organism	Source	Origin	Result
Citrobacter braakii	Ad[1] 833	Raw beef	-	*Hafnia alvei*	Adria[1] 167	Raw pork sausage	-
Citrobacter diversus	Adria[1] 140	Raw milk	-	*Klebsiella oxytoca*	Adria[1] 57	Food product	-
Citrobacter freundii	Adria[1] 23	Raw pork sausage	-	*Klebsiella pneumoniae*	Adria[1] 47	Raw turkey meat	-
Citrobacter freundii	Adria[1] 175	Raw duck meat	-	*Kluyvera spp*	Adria[1] 41	Raw milk	-
Citrobacter koseri	Adria[1] 71	Frozen vegetables	-	*Morganella morganii*	CIP[2] A236	Not available	-
Enterobacter agglomerans	Adria[1] 11	Cheese	-	*Pantoea agglomerans*	Adria[1] 86	Frozen vegetables	-
Enterobacter amnigenus	A00[1] C068	Raw poultry meat	-	*Proteus mirabilis*	Ad[1] 639	Mayonnaise	-
Enterobacter cloacae	Adria[1] 10	Raw milk	-	*Proteus vulgaris*	Adria[1] 43	Sliced ham	-
Enterobacter intermedius	Adria[1] 60	Green beans	-	*Providencia rettgeri*	Adria[1] 112	White liquid egg	-
Enterobacter kobei	Ad[1] 342	Ham	-	*Rhanella aquatilis*	Adria[1] 69	Molluscs	-
Enterobacter sakazakii	Adria[1] 95	Fermented milk	-	*Serratia liquefaciens*	Adria[1] 26	Egg product	-
Erwinia carotovora	CIP[2] 8283	Potatoes	-	*Serratia proteomaculans*	A00[1] C056	Ham	-
Escherichia coli	Adria[1] 19	Greated carrots	-	*Shigella flexneri*	CIP[2] 8248	Not available	-
Escherichia hermanii	Ad[1] 461	Dessert	-	*Shigella sonnei*	CIP[2] 8249	Not available	-
Escherichia vulneris	Adria[1] 127	Raw milk	-	*Yersinia enterocolotica*	Adria[1] 32	Bacon	-

[1]Adria Culture Collection – [2]CIP- Collection of Institut Pasteur

Table 37: Exclusivity Results – Second Testing done by Solus Scientific – 30 strains

Organism	Source	Origin	Result	Organism	Source	Origin	Result
Bacillus cereus	ATCC[3] 14579	Not available	-	*Kluyvera ascorbata*	NCTC[1] 9737	Not available	-
Bacillus coagulans	NCTC[1] 10334	Not available	-	*Kurthia zopfii*	NCTC[1] 405	Not available	-
Bacillus licheniformis	NCTC[1] 10341	Not available	-	*Listeria ivanovii*	ATCC[3] 19119	Not available	-
Brochothrix thermosphacta	NCTC[1] 10822	Not available	-	*Listeria monocytogenes*	ATCC[3] 13932	Not available	-
Citrobacter farmer	SOLUS[2] WT	Not available	-	*Micrococcus luteus*	ATCC[3] 4698	Not available	-
Citrobacter freundii	NCTC[1] 6272	Not available	-	*Proteus vulgaris*	NCTC[1] 4175	Not available	-
Citrobacter freundii	NCTC[1] 9737	Not available	-	*Pseudomonas aeruginosa*	NCTC[1] 10662	Not available	+/- †
Corynebacterium parvum	NCTC[1] 10387	Not available	-	*Proteus mirabilis*	NCTC[1] 11938	Not available	-
Enterobacter aerogenes	NCTC[1] 55	Not available	-	*Serratia liquifaciens*	Solus[1] WT	Not available	-
Enterobacter cloacae	NCTC[1] 10005	Not available	-	*Serratia marcescens*	SOLUS[2] WT	Not available	-
Enterococcus faecalis	NCTC[1] 12697	Not available	+/- †	*Shigella sonnei*	NCTC[1] 9774	Not available	-
Eschericihia coli	NCTC[1] 11560	Not available	-	*Shigella sonnei*	NCTC[1] 9779	Not available	-
Escherichia coli	SOLUS[2] WT	Not available	-	*Staphylococcus aureus*	NCTC[1] 4135	Not available	+/- †
E. coli O157	NCTC[1] 12900	Not available	-	*Staphylococcus aureus*	NCTC[1] 8530	Not available	+/- †
Klebsiella pneumoniae	SOLUS[2] WT	Not available	-	*Streptococcus bovis*	ATCC[3] 33317	Not available	-

[1]NCTC: National Collection of Type Cultures – [2]SOLUS collections – [3]ATCC-American Type Culture Collection

†: positive ELISA result after BPW/negative ELISA result after subculture in RVS.

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