



Laboratory Proficiency Testing Program

E01

***Salmonella* in Liquid Egg**

09-08-2025 (Shipment Date)

10-07-2025 (Final Report Issue Date)

Round ID: E01-090825



CERT # 1782.01

Proficiency Testing Provider

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Authorization
This report has been authorized by Shane Flynn, Senior Director of the AOAC laboratory Proficiency Testing Program. <i>Shane P Flynn</i>

**REPORT TO PARTICIPANTS IN
THE AOAC® LABORATORY PROFICIENCY TESTING PROGRAM**

***Salmonella* in Liquid Egg Program**

1.0 Introduction

Test materials for the *Salmonella* in Liquid Egg program were shipped to participants on September 8, 2025. Each laboratory was given a site identification number in order to maintain confidentiality. Participants were to start analyzing the samples no later than September 15, 2025. An instruction packet on how to use the on-line data submission system was also included in the shipment. The participants were to submit an electronic response on-line to verify the condition of the test materials upon receipt and confirm the safe handling of the test materials containing *Salmonella* by participants. Participants were also instructed to report results electronically. Instructions were provided (see Appendix B). The results were recorded and were to be submitted to AOAC by September 23, 2025.

2.0 Preparation of Test Materials

Each set of test materials included five samples, each containing approximately 100 grams of liquid egg product. All samples were for qualitative testing. The matrix was screened prior to spiking. Each sample was individually inoculated at a low level (5-15 cells/ml). The following two serotypes were used for inoculation: *S. typhimurium* and *S. enteritidis*. Five replicate samples were randomly selected to verify the species and serotype. Two controls were uninoculated.

3.0 Analyses Requested

Samples 1-5	<i>Salmonella</i>	Indicate Present/Absent
	O and H antiserum reactions	Indicate Present/Absent

The participants had the option of identifying the serotype. Information on the method used for analysis was requested.

4.0 Results

Confidentiality of results will be maintained by issuing site identification codes to the participants. Results in reports will only be identified by the site identification code. Results of participants were compared to the expected results. The results table specifies whether the participant tested for serotype. There was inadequate information about the methodology used to group the results according to method for this shipment.

5.0 Comments and Recommendations

All laboratories performed well this round.

If a participant would like to appeal against the assessment of their performance in this proficiency testing scheme, please contact staff at LPTP@AOAC.org.

Qualitative Results For The AOAC Salmonella In Liquid Egg Program (Program E01)

Period=SEP2025 Site ID=115441

TESTNAME	SAMPLE	YOUR REPORTED RESULT	EXPECTED RESULT
Salmonella	1 <i>S. Enteritidis</i>	+	+
	2 <i>S. Typhimurium</i>	+	+
	3 Uninoculated	-	-
	4 <i>S. Enteritidis</i>	+	+
	5 <i>S. Typhimurium</i>	+	+
O Serogroup	1 <i>S. Enteritidis</i>	+	+
	2 <i>S. Typhimurium</i>	+	+
	3 Uninoculated	-	Not Tested
	4 <i>S. Enteritidis</i>	+	+
	5 <i>S. Typhimurium</i>	+	+
O Serogroup Identification	1 <i>S. Enteritidis</i>	D	D
	2 <i>S. Typhimurium</i>	B	B
	3 Uninoculated	Not Tested	Not Tested
	4 <i>S. Enteritidis</i>	D	D
	5 <i>S. Typhimurium</i>	B	B
H Serogroup	1 <i>S. Enteritidis</i>	Not Tested	+
	2 <i>S. Typhimurium</i>	Not Tested	+
	3 Uninoculated	Not Tested	Not Tested
	4 <i>S. Enteritidis</i>	Not Tested	+
	5 <i>S. Typhimurium</i>	Not Tested	+
H Serogroup Identification	1 <i>S. Enteritidis</i>	Not Tested	G complex
	2 <i>S. Typhimurium</i>	Not Tested	i, 1 complex
	3 Uninoculated	Not Tested	Not Tested
	4 <i>S. Enteritidis</i>	Not Tested	G complex
	5 <i>S. Typhimurium</i>	Not Tested	i, 1 complex
Serotype	1 <i>S. Enteritidis</i>	Not Tested	+
	2 <i>S. Typhimurium</i>	Not Tested	+
	3 Uninoculated	Not Tested	Not Tested
	4 <i>S. Enteritidis</i>	Not Tested	+
	5 <i>S. Typhimurium</i>	Not Tested	+
Serotype Name or Antigenic Formula	1 <i>S. Enteritidis</i>	Not Tested	D (O): G complex (H)
	2 <i>S. Typhimurium</i>	Not Tested	B (O): i, 1 complex (H)
	3 Uninoculated	Not Tested	Not Tested
	4 <i>S. Enteritidis</i>	Not Tested	D (O): G complex (H)
	5 <i>S. Typhimurium</i>	Not Tested	B (O): i, 1 complex (H)



E01 *Salmonella* in Liquid Egg PROFICIENCY TESTING PROGRAM

Sample:	Enclosed are 5 samples, each containing 100 grams of liquid egg product. Shelf-life studies performed on samples stored frozen demonstrated that the samples remained stable for a period of at least 7 days if stored frozen. Sample should arrive 10°C or below. These samples should be handled and analyzed in the same manner and following the same analytical standard operating procedures (SOPs) as routine samples.
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Ship Date:	09-08-2025
Start Analysis by Date:	09-15-2025
Result Due Date:	09-23-2025

Storage:	Store samples frozen (-20°C) until analysis date.
Thawing:	Thaw when ready to analyze by placing the samples into a plastic bag in cold water for 1 -2 hours. Do not refreeze the samples. Please be sure to thoroughly scrape out the entire sample.

Please verify that the label on sample #1 is green, #2 orange, #3 yellow, #4 blue, #5 pink

Analyze samples numbered 1 through 5 for the following:

<i>Salmonella</i> species - Specify the method. Report as PRESENT or Absent.
If PRESENT, report the O and the H antiserum reactions. If your laboratory does not test for O and H serogroups, report NOT TESTED.

Reporting	
Where to Report	https://pt2.aoac.org
How to Report	Step by step instructions for online reporting are available once online account is accessed

Questions and Comments

If you have questions regarding the E01 PT round, please contact LPTP@AOAC.org.

Test Material Provider:

Silliker Solution Center
3600 Eagles Nest Drive, Bldg. A
Crete, IL 60417

Appendix C
Homogeneity Analysis
E01 - Liquid Whole Egg
Ship Date: September 8, 2025

Sample	Inoculation Scheme	Expected Serotype	Results - <i>Salmonella</i> /100g		
			Replicate 1	Replicate 2	
1	S. Enteritidis	D (O): G complex (H)	Positive	Positive	PASSED
2	S. Typhimurium	B (O): i, 1 complex (H)	Positive	Positive	PASSED
3	Uninoculated	NA	Negative	Negative	PASSED
4	S. Enteritidis	D (O): G complex (H)			
5	S. Typhimurium	B (O): i, 1 complex (H)			

NA = Not Applicable

Appendix D
Stability Analysis
E01 - Liquid Whole Egg
Ship Date: September 8, 2025
Test Date: September 23, 2025

Sample	Inoculation Scheme	Expected Serotype	Results - <i>Salmonella</i> /100g		
			Replicate 1	Replicate 2	
1	S. Enteritidis	D (O): G complex (H)	Positive	Positive	PASSED
2	S. Typhimurium	B (O): i, 1 complex (H)	Positive	Positive	PASSED
3	Uninoculated	NA	Negative	Negative	PASSED
4	S. Enteritidis	D (O): G complex (H)			
5	S. Typhimurium	B (O): i, 1 complex (H)			

NA = Not Applicable