



## Results tabulation for 15501/BA PT0088: Salmonella in poultry

Distribution Date: 01/08/2023

Culture	23/1564		23/1565		23/1566		23/1567	
	Interpretation (+ve/-ve/IC)	Salmonella Group/Type	Interpretation (+ve/-ve/IC)	Salmonella Group/Type	Interpretation (+ve/-ve/IC)	Salmonella Group/Type	Interpretation (+ve/-ve/IC)	Salmonella Group/Type
Intended	Simulated boot swabs - Salmonella Kentucky (approx. 1.900 cfu per vial)		Simulated 10 g faeces - Citrobacter youngae + Pseudomonas aeruginosa		Simulated 10 g carcass - Escherichia coli + Pseudomonas aeruginosa		Simulated chick box liner - Salmonella Typhimurium (approx. 8,000 cfu per vial) + Escherichia coli + Citrobacter youngae	
	+ve	Group C	-ve	Negative	-ve	Negative	+ve	Group B
1002	Nil Return							
1023	+ve		-ve		-ve		+ve	
1033	+ve	C	-ve		-ve		+ve	B/S.Typhimurium
1067	+ve	S. Kentucky	-ve		-ve		+ve	S. Typhimurium
1075	+ve	Group C3/O:8	-ve		-ve		+ve	Group B/O:4
1076	+ve	S. Kentucky	-ve		-ve		+ve	S. Typhimurium
1081	+ve	Group C O=8	-ve		-ve		+ve	Group B O=4 H=i
1089	+ve		-ve		-ve		+ve	
1114	+ve	S. Kentucky	-ve		-ve		+ve	S. Typhimurium
1115	+ve		-ve		-ve		+ve	
1127	+ve	Group-C2	-ve		-ve		+ve	Group-B
1133	+ve	Group C	-ve	Negative	-ve	Negative	+ve	Group B
1143	+ve	Group C	-ve	Negative	-ve	Negative	+ve	Group B
1157	+ve	Salm. (Poly O)	-ve		-ve		+ve	Salm. (Gp.B)
1158	+ve	S. Kentucky	-ve	-	-ve	-	+ve	S. Typhimurium
1161	+ve		-ve		-ve		+ve	
1198	+ve	group C2	-ve		-ve		+ve	group B
1217	+ve	O:8 (C2-C3)	-ve		-ve		+ve	O:4 (B)
1235	+ve	S. Kentucky	-ve		-ve		+ve	S. Typhimurium
1246	+ve		-ve		-ve		+ve	
1349	Nil Return							
1387	+ve	C2C3	-ve		-ve		+ve	B
1436	+ve	S.Kentucky	-ve		-ve		+ve	S.Typhimurium
1524	Nil Return							
1559	+ve	S. group C	-ve		-ve		+ve	S. Typhimurium
1626	+ve		-ve		-ve		+ve	
1638	+ve		-ve		-ve		+ve	

Culture	23/1564		23/1565		23/1566		23/1567	
	Interpretation (+ve/-ve/IC)	Salmonella Group/Type	Interpretation (+ve/-ve/IC)	Salmonella Group/Type	Interpretation (+ve/-ve/IC)	Salmonella Group/Type	Interpretation (+ve/-ve/IC)	Salmonella Group/Type
Intended	Simulated boot swabs - Salmonella Kentucky (approx. 1.900 cfu per vial)		Simulated 10 g faeces - Citrobacter youngae + Pseudomonas aeruginosa		Simulated 10 g carcass - Escherichia coli + Pseudomonas aeruginosa		Simulated chick box liner - Salmonella Typhimurium (approx. 8,000 cfu per vial) + Escherichia coli + Citrobacter youngae	
	+ve	Group C	-ve	Negative	-ve	Negative	+ve	Group B
1641	+ve	B	-ve		-ve		+ve	C
1647	+ve	External seroty	-ve		-ve		+ve	S. Typhimurium
1648	+ve	GROUP C2	-ve		+ve	GROUP B	+ve	GROUP B
1654	+ve	Group C	-ve	N/A	-ve	N/A	+ve	Group B
1658	+ve		-ve		-ve		+ve	
1669	+ve	S. Kentucky	-ve		-ve		+ve	S. Typhimurium
1700	+ve	S.Kentucky	-ve		-ve		+ve	S.Typhimurium
1703	+ve	Group C2	-ve		-ve		+ve	Group B
1733	+ve		-ve		-ve		+ve	
1770	+ve	group C	-ve		-ve		+ve	group B
1884	+ve		-ve		-ve		+ve	
1894	+ve	O:8 (C2-C3)	-ve		-ve		+ve	O:4 (B)
1896	+ve	Kentucky	-ve		-ve		+ve	Typhimurium
1905	Nil Return							
1944	Nil Return							
1947	+ve	External	-ve		-ve		+ve	S. Typhimurium
1980	+ve	C2C3/S.Kentucky	-ve		-ve		+ve	B/S.Typhimurium
2021	+ve		-ve		-ve		+ve	
2027	+ve	S. Kentucky	-ve		-ve		+ve	S. Typhimurium
2053	+ve	Salmonella spp	-ve		-ve		+ve	Salmonella spp
2098	+ve	C2 Kentucky	-ve	Not Salmonella	-ve	No Growth	+ve	B Typhimurium
2111	+ve	S. Kentucky	-ve		-ve		+ve	S. Typhimurium
2112	+ve	C	-ve		-ve		+ve	B
2143	+ve	S. Kentucky	-ve		-ve		+ve	S. Typhimurium
2146	+ve		-ve		-ve		+ve	
2167	+ve		-ve		-ve		+ve	
2204	+ve		-ve		-ve		+ve	
2212	+ve	Salmonella spp.	-ve		-ve		+ve	Salmonella spp.
2229	+ve	Other	-ve		-ve		+ve	S. Typhimurium
2240	+ve		-ve		-ve		+ve	
2274	+ve		-ve		-ve		+ve	
2356	+ve		-ve		-ve		+ve	
2426	+ve		-ve		-ve		+ve	
2472	+ve		-ve		-ve		+ve	
2552	+ve		-ve		-ve		+ve	
2578	+ve	C2-C3	-ve		-ve		+ve	B
2662	+ve	Group C	-ve	n/a	-ve	n/a	+ve	Group B
2670	+ve	Salmonella sp.	-ve		-ve		+ve	Group B
2762	+ve		-ve		-ve		+ve	
2773	+ve	OMB	-ve		-ve		+ve	OMA
2854	+ve		-ve		-ve		+ve	

Culture	23/1564		23/1565		23/1566		23/1567	
	Interpretation (+ve/-ve/IC)	Salmonella Group/Type	Interpretation (+ve/-ve/IC)	Salmonella Group/Type	Interpretation (+ve/-ve/IC)	Salmonella Group/Type	Interpretation (+ve/-ve/IC)	Salmonella Group/Type
Intended	Simulated boot swabs - Salmonella Kentucky (approx. 1.900 cfu per vial)		Simulated 10 g faeces - Citrobacter youngae + Pseudomonas aeruginosa		Simulated 10 g carcass - Escherichia coli + Pseudomonas aeruginosa		Simulated chick box liner - Salmonella Typhimurium (approx. 8,000 cfu per vial) + Escherichia coli + Citrobacter youngae	
	+ve	Group C	-ve	Negative	-ve	Negative	+ve	Group B
2889	Nil Return							
2907	+ve	Group C	-ve		-ve		+ve	Group B
2925	Nil Return							
2926	+ve		-ve		-ve		+ve	
3079	+ve	Motility+	-ve		-ve		+ve	Motility+
3174	+ve		-ve		-ve		+ve	
3361	+ve	Group C2	-ve		-ve		+ve	Group B
3536	+ve		-ve		-ve		+ve	
3557	+ve	Group C	-ve		-ve		+ve	Group B
3727	+ve	Group C (O:8)	-ve		-ve		+ve	Group B (O:4)

Culture	23/1568	
	Interpretation (+ve/-ve/IC)	Salmonella Group/Type
Intended	Simulated 10 g faeces - Citrobacter youngae + Pseudomonas aeruginosa	
	-ve	Negative
1002	Nil Return	
1023	-ve	
1033	-ve	
1067	-ve	
1075	-ve	
1076	-ve	
1081	-ve	
1089	-ve	
1114	-ve	
1115	-ve	
1127	-ve	
1133	-ve	Negative
1143	-ve	Negative
1157	-ve	
1158	-ve	-
1161	-ve	
1198	-ve	
1217	-ve	
1235	-ve	
1246	-ve	
1349	Nil Return	
1387	+ve	B

<b>Culture</b>	<b>23/1568</b>	
	Interpretation (+ve/-ve/IC)	Salmonella Group/Type
Intended	Simulated 10 g faeces - Citrobacter youngae + Pseudomonas aeruginosa	
	-ve	Negative
1436	-ve	
1524	Nil Return	
1559	-ve	
1626	-ve	
1638	-ve	
1641	-ve	
1647	-ve	
1648	+ve	GROUP B
1654	-ve	N/A
1658	-ve	
1669	-ve	
1700	-ve	
1703	-ve	
1733	-ve	
1770	-ve	
1884	-ve	
1894	-ve	
1896	-ve	
1905	Nil Return	
1944	Nil Return	
1947	-ve	
1980	-ve	
2021	-ve	
2027	-ve	
2053	-ve	
2098	-ve	Not Salmonella
2111	-ve	
2112	-ve	
2143	-ve	
2146	-ve	
2167	-ve	
2204	-ve	
2212	-ve	
2229	-ve	
2240	-ve	
2274	-ve	
2356	+ve	
2426	-ve	
2472	-ve	
2552	-ve	
2578	-ve	

<b>Culture</b>	<b>23/1568</b>	
	Interpretation (+ve/-ve/IC)	Salmonella Group/Type
Intended	Simulated 10 g faeces - Citrobacter youngae + Pseudomonas aeruginosa	
	-ve	Negative
2662	-ve	n/a
2670	-ve	
2762	-ve	
2773	-ve	
2854	-ve	
2889	Nil Return	
2907	+ve	Group C
2925	Nil Return	
2926	-ve	
3079	-ve	
3174	-ve	
3361	-ve	
3536	-ve	
3557	-ve	
3727	-ve	

Intended results were determined using BPW into MSR/V agar.

Sample 23/1565 = 23/1568

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### Comments provided by Anne Bollard, APHA

In this August 2023 distribution 15501/BA there were two positive and three negative Salmonella samples. Seventy-eight laboratories are registered on the distribution and 71 participants returned results before the final deadline closed. Seven labs (1002, 1349, 1524, 1905, 1944, 2889 and 2925) were Nil Returns.

Most participants used a traditional culture method based on ISO 6579-1 (or versions around) to test the samples for detection and then identification by serum agglutination. Additional or alternative methods for detection and/or identification included ELISA, MALDI-TOF, VITEK and PCR.

**Sample 23/1564** - Simulated boot swabs - Salmonella Kentucky (approx. 1.900 cfu per vial) – Group C.

All participants correctly detected Salmonella.

Where reported, all labs also correctly identified to serogroup C, O8 +ve and/or serotype Kentucky other than Lab 1641 who incorrectly misidentified as Group B.

**Samples 23/1565 and 23/1568 (duplicate)** - Simulated 10 g faeces - Citrobacter youngae + Pseudomonas aeruginosa - Negative.

All participants reported correct results for sample 23/1565 as being negative for Salmonella. However, 4 labs (1387, 1648, 2356 and 2907) incorrectly detected Salmonella from duplicate sample 23/1568, and where tested identified as being serogroup B or C, indicating the possibility of cross-contamination, mislabelling and/or

misidentification.

**Sample 23/1566** – Simulated 10 g carcass - Escherichia coli + Pseudomonas aeruginosa - Negative.

All participants reported correct results as being negative for Salmonella other than Lab 1648.

Like with negative sample 23/1568, Lab 1648 misidentified Salmonella Group B from this sample.

**Sample 23/1567** – Simulated chick box liner - Salmonella Typhimurium (approx. 8,000 cfu per vial) + Escherichia coli + Citrobacter youngae - Group B.

All participants correctly detected Salmonella.

Where reported, other than Lab 1641 misidentifying as Group C, all others correctly identified to serogroup B, O4 +ve and/or serotype Typhimurium.

Laboratories with anomalous results should investigate in accordance with their local quality system.

Should repeat samples be required to help with investigations please feel welcome to contact [VETQAS@apha.gov.uk](mailto:VETQAS@apha.gov.uk) for further information.

Participants in this distribution were from countries including South Africa, Italy, The Netherlands, Portugal, India, UK, Turkey, Canada, Belgium, Eire, Germany, Malta, UAE, Chile, Spain, Singapore, Malaysia, USA, Greece, Columbia, Thailand and Australia.



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