



## Proficiency testing for veterinary laboratories

### Results tabulation for 13973/BA PT0088: Salmonella in poultry

Distribution Date: 22/10/2019

Culture	19/2225		19/2226		19/2227		19/2228		19/2229	
	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	Interpretation (+ve/-ve/IC)	Salmonella Group/Type
Intended	Salmonella Typhimurium (approx. 30,000 cfu per vial)		Citrobacter youngae		Salmonella Typhimurium monophasic (approx. 8,000 cfu per vial)		Salmonella Enteritidis (approx. 100,000 cfu per vial) + Escherichia coli		Citrobacter youngae + Escherichia coli	
	+ve	Group B	-ve	Negative	+ve	Group B	+ve	Group D	-ve	Negative
1002	+ve	Typhimurium	-ve		+ve	Group B	+ve	Enteritidis	-ve	
1023	+ve		-ve		+ve		+ve		-ve	
1033	+ve	B/Typhimurium	-ve		+ve	B/i	+ve	D/Enteritidis	-ve	
1056	+ve	B/Typhimurium	-ve	-	+ve	B/-	+ve	D/Enteritidis	-ve	-
1067	+ve		-ve		+ve		+ve		-ve	
1076	+ve	S. typhimurium	-ve		+ve	S. typhimurium	+ve	S. enteritidis	-ve	
1089	+ve		-ve		+ve		+ve		-ve	
1114	+ve	S. Typhimurium	-ve		+ve	S Typhimur mono	+ve	S. Enteritidis	-ve	
1115	+ve	S. Typhimurium	-ve		+ve	1,4,5,12:i:-	+ve	S. Enteritidis	-ve	
1121	+ve	Typhimurium	-ve		+ve	Typhimurium	+ve	Enteritidis	-ve	
1125	Nil Return									
1127	+ve	Group B	-ve	Negative	+ve	Group B	+ve	Group D	-ve	Negative
1133	+ve	Group B	-ve	Negative	+ve	Group B	+ve	Group D	-ve	Negative
1143	+ve	Group B	-ve		+ve	Group B	+ve	Group D	-ve	
1156	+ve		-ve		+ve		+ve		-ve	
1157	+ve	Salm. (Gp.B)	-ve		+ve	Salm. (Gp.B)	+ve	Salm. (Gp.D)	-ve	
1158	+ve	S. Typhimurium	-ve	-	+ve	mono S. T.	+ve	S. Enteritidis	-ve	-
1161	+ve	B	-ve		+ve	B	+ve	D1	-ve	
1198	+ve	Group B	-ve		+ve	Group B	+ve	Group D	-ve	
1217										
1218	+ve		-ve		+ve		+ve		-ve	
1235	+ve		-ve		+ve		+ve		-ve	
1246	+ve		-ve		+ve		+ve		-ve	
1261	+ve	Group B	-ve		+ve	Group B	+ve	Group D1	-ve	
1266	Nil Return									
1318	+ve	B	-ve		+ve	B	+ve	D	-ve	
1349	+ve		-ve		+ve		+ve		+ve	
1374	+ve	Group B	-ve	Citrobacter	+ve	Group B	+ve	Group D	-ve	Citrobacter
1382	+ve	S. Typhimurium	-ve		+ve	S. Typhimurium	+ve	S. Enteritidis	-ve	
1387	+ve	B	-ve		+ve	B	+ve	D	-ve	
1436	Nil Return									
1521	+ve		-ve	Citrobacter	+ve		+ve	Group D	-ve	Citrobacter
1559	+ve	S.Typhimurium	-ve		+ve	S.Typ.monof.	+ve	S. Enteritidis	-ve	
1626	+ve		-ve		+ve		+ve		-ve	
1638	+ve	Detected	-ve	Not Detected	+ve	Detected	+ve	Detected	-ve	Not Detected
1641	+ve	S. typhimurium	-ve		+ve	S. typhimurium	+ve	S. enteritidis	-ve	
1647	+ve	S. Typhimurium	+ve	ext. serotyping	+ve	ext. serotyping	+ve	S. Enteritidis	-ve	
1654	+ve	Group B	-ve	N/A	+ve	Group B	+ve	Group D	-ve	N/A
1669	+ve	S. Typhimurium	-ve		+ve	S. Typhimurium	+ve	S. Enteritidis	-ve	
1700	+ve	S.Typhimurium B	-ve		+ve	S.Typh monof B	+ve	S.EnteritidisD1	-ve	
1708	+ve	4-i-1,2	-ve		+ve	4-i--	+ve	9-g,m--	-ve	
1733	+ve		-ve		+ve		+ve		-ve	
1770	+ve	S. Typhimurium	-ve	C. youngae	+ve	S. Typhimurium	+ve	S. enteritidis	-ve	negative

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Intended	Salmonella Typhimurium (approx. 30,000 cfu per vial)		Citrobacter youngae		Salmonella Typhimurium monophasic (approx. 8,000 cfu per vial)		Salmonella Enteritidis (approx. 100,000 cfu per vial) + Escherichia coli		Citrobacter youngae + Escherichia coli	
	+ve	Group B	-ve	Negative	+ve	Group B	+ve	Group D	-ve	Negative
1853	+ve	S. Typhimurium	-ve		+ve	S. Typhimurium	+ve	S. Enteritidis	-ve	
1884	+ve		-ve		+ve		+ve		-ve	
1894	+ve		-ve		+ve		+ve		-ve	
1896	+ve		-ve		+ve		+ve		-ve	
1905	+ve		-ve		+ve		+ve		-ve	
1919	+ve	Typhimurium	-ve	citro.youngae	+ve	Gloucester	+ve	Enteritidis	-ve	citro.youngae
1944	+ve	S typhimurium	-ve		+ve	S typhimurium	+ve	S enteritidis	-ve	
1947	+ve	O/S.Typhimurium	-ve		+ve	Typh monophasic	+ve	O/S.Enteritidis	-ve	
1980	+ve	S.Typhimurium	-ve		+ve	S.Typhimurium m	+ve	S.Enteritidis	-ve	
1992	+ve	B	-ve	-	+ve	B	+ve	D	-ve	-
2011	+ve		-ve		+ve		+ve		-ve	
2021	+ve	Salmonella spp	-ve		+ve	Salmonella spp	+ve	Salmonella spp	-ve	
2053	+ve	Salmonella spp	-ve		+ve	Salmonella spp	+ve	Salmonella spp	-ve	
2084	+ve		-ve		+ve		+ve		-ve	
2096	+ve		-ve		+ve		+ve		-ve	
2098	+ve	B Typhimurium	-ve	No growth	+ve	B 4,5,12:i:-	+ve	D Enteritidis	-ve	Not Salmonella
2111	+ve	Typhimurium	-ve		-ve		+ve	Typhim. (mf)	+ve	Enteritidis
2112	+ve	B	-ve		+ve	B	+ve	D	-ve	
2131	+ve	S.Typhimurium	-ve	not detected	+ve	S.Typhimurium	+ve	S.Enteritidis	+ve	S.Enteritidis
2143	+ve	S.Typhimurium	-ve		+ve	S.Typhimurium*	+ve	S. Enteritidis	-ve	
2167	+ve	S. Typhimurium	-ve		+ve	S. 4,12:i:-	+ve	S. Enteritidis	-ve	
2204	+ve		-ve		+ve		+ve		-ve	
2212	+ve	Salmonella spp.	-ve		+ve	Salmonella spp.	+ve	Salmonella spp.	-ve	
2229	+ve	Typhimurium	-ve		+ve	Typhimurium mon	+ve	Enteritidis	-ve	
2240	+ve		-ve		+ve		+ve		-ve	
2273	Nil Return									
2274	+ve		-ve		+ve		+ve		-ve	
2356	+ve		-ve		+ve		+ve		+ve	
2412	+ve	S. Typhimurium	+ve	S. spp.	+ve	O4, S. 4:i:-	+ve	S. Enteritidis	+ve	S. spp.
2426	+ve		-ve		+ve		+ve		-ve	
2458	+ve	Salmonella spp	-ve		+ve	Salmonella spp	+ve	Salmonella spp	-ve	
2472	+ve	S. Typhimurium	-ve		+ve	Typhimurium(mf)	+ve	S. enteritidis	-ve	
2508	+ve		-ve		+ve		+ve		-ve	
2532	+ve	B/S.typhimurium	-ve		+ve	B/S.typhimurium	+ve	D/S.enteritidis	-ve	
2552	+ve		-ve		+ve		+ve		-ve	
2573	+ve		-ve		+ve		+ve		-ve	
2578	+ve	B+	-ve		+ve	B+	+ve	D+	-ve	
2596	+ve	B	IC	Non group B,C,D	+ve	B	+ve	D	+ve	B
2659	+ve		-ve		+ve		+ve		-ve	
2670	+ve	Group B	-ve	N/A	+ve	Group B	+ve	Group D1	-ve	N/A
2726	+ve	B	-ve		+ve	B	+ve	D	-ve	
2761	+ve	O4	-ve		+ve	O4	+ve	O9	-ve	
2762	+ve		-ve		+ve		+ve		-ve	
2779	+ve	S. Typhimurium	-ve		+ve	S. Typhimurium	+ve	S. Enteritidis	-ve	
2872	+ve		+ve		-ve		+ve		-ve	
2897	+ve		-ve		+ve		+ve		-ve	
2907	+ve	Group B	-ve		+ve	Group B	+ve	Group D	-ve	
2925	+ve	GROUP B	-ve		+ve	GROUP B	+ve	GROUP D	-ve	
3015	+ve		-ve		+ve		+ve		-ve	

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Intended	Salmonella Typhimurium (approx. 30,000 cfu per vial)		Citrobacter youngae		Salmonella Typhimurium monophasic (approx. 8,000 cfu per vial)		Salmonella Enteritidis (approx. 100,000 cfu per vial) + Escherichia coli		Citrobacter youngae + Escherichia coli	
	+ve	Group B	-ve	Negative	+ve	Group B	+ve	Group D	-ve	Negative
3205	+ve	B/Typhimurium	-ve		+ve	B/Typhimurium	+ve	D/Enteritidis	-ve	
3361	+ve	Group B	-ve		+ve	Group B	+ve	Group D	-ve	

Intended results were determined using BPW into MSRV agar.

**Comments provided by Michael Elliott, APHA Newcastle**

**Sample 19/2225** Salmonella Typhimurium – Positive Salmonella Gp B

All labs correctly reported the presence of a Salmonella spp. and, where supplied, the correct serogroup for the isolate.

**Sample 19/2226** Citrobacter youngae – Negative Salmonella

Lab 1647 incorrectly reported a positive Salmonella result for this sample.

Lab 2412 incorrectly reported a positive Salmonella result for this sample.

Lab 2872 incorrectly reported a positive Salmonella result for this sample.

Lab 2596 reported the sample as inconclusive, but had ruled out the presence of group B, C or D Salmonella.

All other labs correctly reported the absence of Salmonella in this sample.

**Sample 19/2227** Salmonella Typhimurium monophasic - Positive Salmonella Gp B

Lab 1919 reported a positive Salmonella for this sample, but incorrectly identified it as S. Gloucester.

Lab 2111 incorrectly reported this sample as a negative Salmonella.

Lab 2872 incorrectly reported this sample as a negative Salmonella (possibly a transposition error with sample 19/2226).

All other labs correctly reported the presence of a Salmonella spp. and, where supplied, the correct serogroup for the isolate.

**Sample 19/2228** Salmonella Enteritidis & Escherichia coli - Positive Salmonella Gp D

Lab 2111 reported a positive Salmonella for this sample, but incorrectly identified it as monophasic S. Typhimurium (possibly sample order error following on from 19/2227).

All other labs correctly reported the presence of a Salmonella spp. and, where supplied, the correct serogroup for the isolate.

**Sample 19/2229** Citrobacter youngae & Escherichia coli - Negative Salmonella

Lab 1349 incorrectly reported this sample as a positive Salmonella.

Lab 2111 incorrectly reported this sample as a positive Salmonella Enteritidis (possibly sample order error following on from 19/2228).

Lab 2131 incorrectly reported this sample as a positive Salmonella Enteritidis (possibly contamination or repeat error from 19/2228).

Lab 2356 incorrectly reported this sample as a positive Salmonella.

Lab 2412 incorrectly reported this sample as a positive Salmonella.

Lab 2596 incorrectly reported this sample as a positive Salmonella Gp B.

All other labs correctly reported the absence of Salmonella in this sample.

Of the labs which recorded errors on more than one sample, it is suggestive that labs 2111 & 2596 may have had transposition or transcription errors, while labs 2412 & 2872 may have had some element of cross contamination.

There were four Nil Returns and Lab 1217 was unable to test in this distribution.

Vetqas comment: Participants in this distribution were from countries including South Africa, Italy, Serbia, The Netherlands, Portugal, India, UK, Turkey, Canada, Belgium, Eire, Croatia, Germany, Chile, Switzerland, USA, Spain, Greece, Malaysia, Cyprus, Brazil, Botswana, Thailand, Croatia, Brunei and Morocco.



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