



Proficiency testing for veterinary laboratories

Distribution Date: 03/02/2015

Results tabulation for 11847/BA PT0088: Salmonella in poultry

Culture	15/1215		15/1216		15/1217		15/1218		15/1219	
	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 enterica subsp. arizonae (approx 80 cfu per vial)		Salmonella Enteritidis (approx 1,000,000 cfu per vial) + Citrobacter youngae		Salmonella Typhimurium (< 100,000 cfu per vial) + Citrobacter youngae		Citrobacter youngae + Escherichia coli		Citrobacter youngae + Pseudomonas aeruginosa	
	+ve	Illa Group K	+ve	Group D	+ve	Group B	-ve	Negative	-ve	Negative
1002	-ve		+ve	Enteritidis	+ve	Typhimurium	-ve		-ve	
1030	+ve	S. arizonae	+ve	S. enteritidis	+ve	S.typhimurium	-ve		-ve	
1076	+ve	Poly II	+ve	S. enteritidis	+ve	S. typhimurium	-ve		-ve	
1089	+ve		+ve		+ve		-ve		-ve	
1114	+ve	Group O:18 (K)	+ve	Group O:9 (D1)	+ve	Group O:4 (B)	-ve		-ve	
1115	+ve	III 18:z4,z32:-	+ve	S. Enteritidis	+ve	S. Typhimurium	-ve		-ve	
1125	+ve		+ve	S. Enteritidis	+ve	S. Typhimurium	+ve	S. Typhimurium	-ve	
1127	+ve		+ve	Group D	+ve	Group B	+ve	Group B	-ve	
1133	-ve		+ve	D (O9)	+ve	B (O4)	-ve		-ve	
1143	+ve	Group B	+ve	Group D	+ve	Group B	-ve	Negative	-ve	Negative
1157	+ve	Salm. (Poly O)	+ve	Salm. (Gp.D)	+ve	Salm. (Gp.B)	-ve		-ve	
1158	+ve	group O18	+ve	S. Enteritidis	+ve	S. Typhimurium	-ve	-	-ve	-
1190	-ve		+ve		+ve		-ve		-ve	
1198	+ve	Group ?	+ve	Group D	+ve	Group B	-ve		-ve	
1217	+ve	O:18(K)	+ve	O:9(D1)	+ve	O:4(B)	-ve		-ve	
1220	+ve	Group D ?	+ve	Group D	+ve	Group B	-ve		-ve	
1235	+ve		+ve		+ve		-ve		-ve	
1246	+ve	Salmonella III	+ve	S. Enteritidis	-ve		-ve		-ve	
1318	+ve	Arizonae	+ve	D	+ve	B	-ve		-ve	
1340	+ve		+ve	Gp C+D	+ve	Gp B	-ve		-ve	
1349	+ve	S.Bluhwa	+ve	S.enteritidis	+ve	S.Typhimurium	-ve		-ve	
1382	+ve	Salmonella spp.	+ve	S. Enteritidis	+ve	S. Typhimurium	-ve		-ve	
1387	+ve	Group B-D-C -ve	+ve	Group D	+ve	Group B	-ve	not applicable	-ve	not applicable
1436	+ve	S.Arizonae	+ve	S.Enteritidis	+ve	S.Typhimurium	-ve		-ve	
1495	+ve	IIla 18:z4z32:-	+ve	S. Enteritidis	+ve	S. Typhimurium	-ve		-ve	
1521	+ve		+ve	Group D	+ve		-ve		-ve	
1559	+ve	S.group F-67	+ve	S.Enteritidis	+ve	S.Typhimurium	-ve		-ve	
1626	+ve		+ve		+ve		-ve		-ve	
1638	+ve		+ve		+ve		-ve		-ve	
1647	-ve		+ve	S. Enteritidis	+ve	S. Typhimurium	-ve		-ve	
1654	+ve		+ve	Group D	+ve	Group B	-ve	N/A	-ve	N/A
1673	+ve		-ve		+ve		-ve		+ve	
1681	+ve	S. arizonae	+ve	S. Enteritidis	+ve	S. Typhimurium	-ve		-ve	
1696	+ve		+ve		+ve		-ve		-ve	
1700	Nil Return									
1733	+ve		+ve		+ve		-ve		-ve	
1770	+ve	group II	+ve	S. enteritidis	+ve	S. typhimurium	-ve		-ve	C. youngae
1812	+ve	III18:z4,z32:-	+ve	Enteritidis	+ve	Typhimurium	-ve		-ve	
1853	+ve	S. Arizonae	+ve	S. Enteritidis	+ve	S. Typhimurium	-ve		-ve	
1877	+ve		+ve		+ve		-ve		-ve	

Culture	15/1215		15/1216		15/1217		15/1218		15/1219	
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Intended	Salmonella enterica subsp. arizonae (approx 80 cfu per vial)		Salmonella Enteritidis (approx 1,000,000 cfu per vial) + Citrobacter youngae		Salmonella Typhimurium (< 100,000 cfu per vial) + Citrobacter youngae		Citrobacter youngae + Escherichia coli		Citrobacter youngae + Pseudomonas aeruginosa	
	+ve	Illa Group K	+ve	Group D	+ve	Group B	-ve	Negative	-ve	Negative
1882	+ve	S.Group O:18(K)	+ve	S.Enteritidis	+ve	S.Typhimurium	-ve	-	-ve	-
1894	+ve	s. arizonae	+ve	salmonella spp.	+ve	salmonella spp.	-ve	c. youngae	-ve	b. cepacia
1905	-ve		+ve	Salmonella I	+ve	Salmonella I	-ve		-ve	
1944	+ve		+ve	Denteritidis	+ve	Btyphimurium	-ve		-ve	
1947	+ve	External	+ve	S. Enteritidis	+ve	S. Typhimurium	-ve		-ve	
1977	+ve	Group F - 67	+ve	Group D1	+ve	Group B	-ve		-ve	
1992	+ve	F-67	+ve	Group D	+ve	Group B	-ve		-ve	
2011	-ve		+ve		+ve		-ve		-ve	
2053	+ve	Salmonella ariz	+ve	Salmonella spp	+ve	Salmonella spp	-ve		-ve	
2096	+ve		+ve		+ve		-ve		-ve	
2098	-ve	No growth	+ve	D / Enteritidis	+ve	B / Typhimurium	-ve	Not Salmonella	-ve	Not Salmonella
2111	+ve	Salmonella spp	+ve	S. enteritidis	+ve	S. typhimurium	-ve		-ve	
2112	+ve	Salmonella spp.	+ve	group D	+ve	group B	-ve		-ve	
2131	+ve	Salmonella	+ve	S. Enteritidis	+ve	S. Typhimurium	-ve	Not detected	-ve	Not detected
2143	+ve	S. spp	+ve	S. Enteritidis	+ve	S. Typhimurium	-ve		-ve	
2158	+ve		+ve		+ve		-ve		-ve	
2167	+ve		+ve		+ve		-ve		+ve	
2204	+ve		+ve		+ve		-ve		-ve	
2212	+ve	Salmonella spp.	+ve	Salmonella spp.	+ve	Salmonella spp.	-ve		-ve	
2229	-ve		+ve	S. Enteritidis	-ve		-ve		+ve	S. Typhimurium
2240	+ve		+ve		+ve		-ve		-ve	
2258	+ve		+ve		+ve		-ve		-ve	
2274	+ve		+ve		+ve		-ve		-ve	
2356	+ve		+ve		+ve		-ve		-ve	
2369	+ve	Salmonella spp	+ve	D Enteritidis	+ve	B Typhimurium	-ve		-ve	
2386	+ve		+ve		+ve		-ve		-ve	
2412	-ve		+ve	S. Enteritidis	+ve	S. Typhimurium	-ve		-ve	
2426	+ve		+ve		+ve		-ve		-ve	
2455	+ve		+ve		+ve		-ve		-ve	
2458	+ve	Salmonella spp	+ve	Salmonella spp	+ve	Salmonella spp	-ve		-ve	
2472	+ve	S. Hadar	+ve	S. Enteritidis	+ve	S. Typhimurium	-ve		-ve	
2508	+ve		+ve		+ve		-ve		-ve	
2552	+ve		+ve		+ve		-ve		-ve	
2554	+ve	salmonella spp	+ve	salmonella spp	-ve		+ve	salmonella spp	+ve	salmonella spp
2573	-ve		+ve		+ve		-ve		-ve	
2628	+ve		+ve	S. enteritidis	+ve	S. typhimurium	-ve		-ve	
2667	+ve	Salmonella spp	+ve	Salmonella spp	+ve	Salmonella spp	-ve	E.coli	-ve	C.youngae
2670	+ve	Salmonella	+ve	Group D1	+ve	Group B	-ve		-ve	
2726	+ve		+ve		+ve		-ve		-ve	
2755	+ve		+ve	D	+ve	B	-ve		-ve	
2762	+ve		+ve		+ve		-ve		-ve	
2799	+ve		+ve		+ve		-ve		-ve	
2823	+ve		+ve		+ve		-ve		-ve	
2827	+ve	Salm. arizonae	+ve	Salmonella spp.	+ve	Salmonella spp.	-ve		-ve	
3015	+ve		+ve		+ve		+ve		+ve	
3020	+ve	S. arizonae	+ve	S. Enteritidis	+ve	S. Typhimurium	-ve		-ve	
3033	+ve		+ve		+ve		-ve		-ve	

Intended results were determined using BPW into MSRV agar.

Comments provided by Gordon Bennett, APHA Lasswade

Sample 15/1215 - Intended - Positive, Salmonella arizonae (O18)

Laboratories 1002, 1133, 1190, 1647, 1905, 2011, 2098, 2229, 2412 and 2573 failed to isolate Salmonella.

Laboratory 1143 isolated Salmonella, however, incorrectly serotyped it as being in Group B.

Laboratory 1220 isolated Salmonella but questioned it as being Group D.

Laboratory 1349 isolated Salmonella, however, incorrectly serotyped it as S. Bluhwa?

Laboratory 2472 isolated Salmonella, however, incorrectly serotyped it as S. Hadar.

All other laboratories returned the expected positive result with those able to serotype correctly identifying it as arizonae, O18 or Group K.

Laboratories 1076, 1559, 1977 and 1992 correctly identified using their choice of testing methods that the Salmonella arizonae type is in the (Poly II) serogroup F-67 (F to O67).

Sample 15/1216 - Intended - Positive, Salmonella Enteritidis and Citrobacter youngae

Laboratory 1673 failed to isolate Salmonella.

Laboratory 1340 reported detecting 'Grp C+D' making it difficult to understand whether they detected two types of Salmonella or their method cannot distinguish between these two groups.

All other laboratories returned the expected positive result with those able to serogroup correctly grouping as Group D.

Sample 15/1217 - Intended - Positive, S. Typhimurium and Citrobacter youngae

Laboratories 1246, 2229 and 2554 failed to isolate Salmonella.

All other laboratories returned the expected positive result with those able to correctly grouped it as Group B.

Sample 15/1218 - Intended - Negative, Citrobacter youngae and E. coli

Laboratories 1125, 1127, 2554 and 3015 incorrectly returned a positive result.

All other laboratories returned the expected negative result.

Sample 15/1219 - Intended - Negative, Citrobacter youngae and Pseudomonas aeruginosa

Laboratories 1673, 2167, 2229, 2554 and 3015 incorrectly isolated Salmonella.

All other laboratories returned the expected negative result.

Laboratory 1700 posted a Nil Return.



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