



NVSL *SALMONELLA*, *MYCOPLASMA* AND *PASTEURELLA MULTOCIDA* UPDATE

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NPIP Group D *Salmonella* Proficiency Test

	2012	2013	2014	2015	2016
Participants	73	61	80	94	98
Mean Score	92%	94%	98%	98%	97%
Score Range	100-29%	100-68%	100-80%	100-68%	100-80%
Below Passing	7	4	0	1	0

Salmonella Serotyping

- 13,295 isolates submitted in 2016
 - 5,258 clinical isolates
 - 5,727 non-clinical isolates
 - 2,310 research and other isolates
- 3,593 isolates from chicken
- 1,415 isolates from turkey

Most Common Serotypes – Chicken 2016

Rank	Clinical	Non-Clinical
1	Enteritidis	Senftenberg
2	Typhimurium	Mbandaka
3	Kentucky	Worthington
4	Heidelberg	Enteritidis
5	III 13,23:g,z51:-	Thompson

Salmonella Group D₁

- Chicken submissions - all roles
- 388 Group D₁ isolates
- 342 (88%) isolates were SE
- 46 (12%) D₁ isolates were serotypes other than SE
 - *S. Alabama*, *S. Berta* and *S. Javiana*

Most Common Serotypes – Turkeys 2016

Rank	Clinical	Non-Clinical
1	Senftenberg	Hadar
2	Ouakam	Senftenberg
3	Bredeney/Albany	London
4	Typhimurium	Muenchen
5	Uganda	Uganda/Albany

Salmonella Pullorum

- 808 *Salmonella* Pullorum serological tests
- 2,255 mL *Salmonella* Pullorum tube test antigen provided
- 1,275 mL *Salmonella* Pullorum stained microtiter antigen provided
- 384 mL of control antisera provided

Pasteurella multocida

- 186 isolates for Gel-Diffusion Precipitin Test
- 134 isolates for DNA fingerprinting
- 45 mL of antisera provided
- 3 reference isolates provided

Avian *Mycoplasma*

- 246 samples for hemagglutination inhibition testing
- 570 mL of hemagglutination antigen supplied
 - 275 mL MG
 - 80 mL MM
 - 215 mL MS
- 728 mL of control antisera supplied
 - 192 mL MG
 - 42 mL MM
 - 172 mL MS
 - 322 mL Negative control

SALMONELLA SEROTYPING

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PASTEURELLA MULTOCIDA

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AVIAN MYCOPLASMA

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