



**Wisconsin Veterinary
Diagnostic Laboratory**
UNIVERSITY OF WISCONSIN-MADISON

**All *Salmonella enterica* subspecies *enterica* serotypes/serogroups
identified in 2024**

2024 <i>Salmonella</i> Serotypes Isolated	All Species	Bovine	Avian	Equine	Other¹
Group B*	144	69	63	6	6
SALMONELLA AGONA	22	1	14	6	1
SALMONELLA SCHWARZENGRUND	41	2	36	0	3
SALMONELLA TYPHIMURIUM	80	61	10	4	5
SALMONELLA HEIDELBERG	1	1	0	0	0
SALMONELLA BRANDENBURG	0	0	0	0	0
SALMONELLA SAINTPAUL	0	0	0	0	0
SALMONELLA READING	0	0	0	0	0
SALMONELLA KIAMBU	0	0	0	0	0
SALMONELLA DERBY	5	0	1	0	4
SALMONELLA MONOPHASIC TYPHIMURIUM ²	25	15	0	2	8
NON-MOTILE SALMONELLA	1	0	1	0	0
Total	175	80	62	12	21
Group C1*	73	59	9	2	3
SALMONELLA INFANTIS	14	4	9	0	1
SALMONELLA BRAENDERUP	4	1	3	0	0
SALMONELLA OTHMARSCHEN	1	1	0	0	0
SALMONELLA MONTEVIDEO	79	71	4	0	4
SALMONELLA THOMPSON	4	3	0	1	0
SALMONELLA HARTFORD	2	0	1	1	0
SALMONELLA MBANDAKA	1	1	0	0	0
SALMONELLA LIVINGSTONE	0	0	0	0	0
SALMONELLA NORWICH	0	0	0	0	0
SALMONELLA ORANIENBURG	12	2	1	0	9
SALMONELLA BAREILLY	0	0	0	0	0
SALMONELLA LUBBOCK	0	0	0	0	0
SALMONELLA TENNESSE	1	0	1	0	0
SALMONELLA RISSEN	2	1	0	0	1
Total	120	84	19	2	15

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Group C2-C3*	375	30	291	1	53
SALMONELLA KENTUCKY	372	14	306	0	52
SALMONELLA LITCHFIELD	2	1	0	0	1
SALMONELLA NEWPORT	19	7	1	0	11
SALMONELLA MUENCHEN	15	8	5	1	1
SALMONELLA HADAR	1	0	1	0	0
SALMONELLA BARDO	0	0	0	0	0
SALMONELLA BOVISMORBIFICANS	4	3	0	0	1
SALMONELLA HIDALGO	0	0	0	0	0
SALMONELLA ALTONA	1	0	0	0	1
SALMONELLA MONOPHASIC ³	7	1	6	0	0
Total	421	34	319	1	67
Group D*	232	118	114	0	0
SALMONELLA PANAMA	8	5	0	0	3
SALMONELLA DUBLIN	99	98	0	0	1
SALMONELLA ENTERITIDIS	355	1	353	0	1
SALMONELLA OUAKAM	13	0	13	0	0
SALMONELLA JAVIANA	0	0	0	0	0
SALMONELLA PANAMA/HOUSTON ⁴	0	0	0	0	0
NON-MOTILE SALMONELLA	6	6	0	0	0
Total	481	110	366	0	5
Group E*	62	32	25	1	4
SALMONELLA MELEAGRIDIS	11	11	0	0	0
SALMONELLA MUENSTER	24	8	0	0	16
SALMONELLA SENFTENBERG	11	4	7	0	0
SALMONELLA UGANDA	14	6	1	0	7
SALMONELLA GIVE	16	8	0	0	8
SALMONELLA ANATUM	20	13	6	1	0
SALMONELLA ORION	1	1	0	0	0
SALMONELLA KOUKA	0	0	0	0	0
SALMONELLA CANNSTATT	0	0	0	0	0
SALMONELLA LIVERPOOL	14	2	12	0	0
SALMONELLA LONDON	1	1	0	0	0
SALMONELLA SCHOENBERG	0	0	0	0	0
SALMONELLA KOUKA/CANNSTATT ⁴	0	0	0	0	0
SALMONELLA AMSTERDAM	0	0	0	0	0
SALMONELLA MONOPHASIC	1	0	1	0	0

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NON-MOTILE <i>SALMONELLA</i>	0	0	0	0	0
Total	113	54	27	1	31
Group F	0	0	0	0	0
<i>SALMONELLA</i> KISARAWA	0	0	0	0	0
<i>SALMONELLA</i> RUBISLAW	0	0	0	0	0
Total	0	0	0	0	0
Group G*	11	4	7	0	0
<i>SALMONELLA</i> AGBENI	1	1	0	0	0
<i>SALMONELLA</i> CUBANA	4	0	4	0	0
<i>SALMONELLA</i> HAVANA	3	0	3	0	0
<i>SALMONELLA</i> WORTHINGTON	1	1	0	0	0
<i>SALMONELLA</i> IDIKAN	5	5	0	0	0
<i>SALMONELLA</i> MISSISSIPPI	0	0	0	0	0
NON-MOTILE <i>SALMONELLA</i>	1	1	0	0	0
Total	15	8	7	0	0
Group I	2	2	0	0	0
<i>SALMONELLA</i> BARRANQUILLA	8	8	0	0	0
Total	8	8	0	0	0
Group K*	86	74	1	0	11
<i>SALMONELLA</i> CERRO	122	117	0	0	5
Total	122	177	0	0	5
Group L	0	0	0	0	0
<i>SALMONELLA</i> RUIRU	0	0	0	0	0
<i>SALMONELLA</i> MINNESOTA	1	0	0	1	0
Total	1	0	0	1	0
Group M	0	0	0	0	0
<i>SALMONELLA</i> NIIMA	0	0	0	0	0
<i>SALMONELLA</i> POMONA	0	0	0	0	0
NON-MOTILE <i>SALMONELLA</i>	0	0	0	0	0
Total	0	0	0	0	0
Group N	2	0	2	0	0
<i>SALMONELLA</i> SORENGA	3	0	3	0	0
Total	3	0	3	0	0
Group O*	4	0	2	0	2
<i>SALMONELLA</i> ADELAIDE	1	0	0	0	1
<i>SALMONELLA</i> ALACHUA	7	0	5	0	2
Total	8	0	5	0	3

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Group R	0	0	0	0	0
<i>SALMONELLA</i> JOHANNESBURG	0	0	0	0	0
Total	0	0	0	0	0
Group O61	1	0	0	0	1
IIIb : O61 : k : 1 , 5	7	0	0	0	7
Total	7	0	0	0	7
TOTAL SEROGROUPS	992	388	514	10	80
Unable to fully type/group	3	2	0	0	1
TOTAL SEROTYPE FOR ALL GROUPS	1,477	497	808	17	155

*Refers to *Salmonella* that was grouped but not serotyped

¹Other Includes Canine, Porcine, Caprine, Cervidae, Ovine, and Serpentes, unspecified. (raccoon)

²*Salmonella* 4,[5], 12:i:- is believed to be the monophasic variant of *Salmonella* ser. Typhimurium. Monophasic *Salmonella* ser. Typhimurium cannot be confirmed at the WVDL due to a lack of sera needed to perform confirmation.

³*Salmonella* 8:-:z6 most likely Kentucky

⁴Unable to differentiate at the WVDL due to lack of sera needed to perform confirmation.

Bovine Salmonella: Serotyping Highlights - 2024

	S. Cerro Serogroup K	S. Dublin Serogroup D1	S. Montevideo Serogroup C1	S. Typhimurium Serogroup B
Number	117 ^a	98 ^a	71 ^b	61 ^b
Percent of Total (n = 497)	23.5	19.7	14.3	12.3

^{a,b} Different lower case letters indicate differences between serotypes ($p \leq 0.05$)

Note: S. Dublin, Cerro, Montevideo and Typhimurium account for 69.8% of the bovine *Salmonella* serotypes found in 2024.

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