

TABLE 5

**Salmonella isolates from human sources
by serotype and geographic region, 2006**

Serotype	Region									Total
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	
Aarhus		4				2				6
Aba	1									1
Abaetetuba	1		1						1	3
Aberdeen		5		2	2				1	10
Abony					3			2	3	8
Adelaide	4	11	9	3	16	6	2	1	18	70
Agama		3			1					4
Agbeni		3	5	1					6	15
Ago								1		1
Agona	43	91	68	48	67	19	14	55	133	538
Agoueve	1		2							3
Ajiobo			1							1
Alabama					3	2				5
Alachua	2	9	1		2	1			3	18
Albany	1	9		3	1		1	8	13	36
Altona		1		1				1	1	4
Amager									4	4
Amherstiana				1						1
Amoutive				1						1
Amsterdam		1	1	1						3
Amsterdam var. 15+				1						1
Anatum	16	32	42	32	30	24	9	23	30	238
Anatum var. 15+		1	2	1	2			2	8	16
Anecho					2				1	3
Anfo		1								1
Apapa	2	1	1	1					2	7
Aqua				1	1	1				3
Arechavaleta					1		1			2
Assinie					4					4
Avignon					1					1
Bahrenfeld					1					1
Baildon		9	3		2					14
Banana						1				1
Bardo		1		4	14	3		1	6	29
Bareilly	4	15	12	26	88	53	41	2	15	256
Bargny			1							1
Barranquilla			2	2					1	5
Beaudesert		1	1					1		3
Benin	1	1			2			1	1	6
Bere		2			4				1	7
Bergen				1						1
Berta	17	55	39	16	59	22	12	9	23	252
Blockley	11	21	6	2	10	3		2	6	61
Bonariensis	2									2
Bonn			1							1

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Bournemouth		1								1
Bousso		1								1
Bovismorbificans	3	15	19	8	8	4	2	4	8	71
Bradford					1					1
Braenderup	35	107	81	33	89	47	38	32	99	561
Brandenburg	2	10	15	10	8	1	5	9	34	94
Brazil					2	1				3
Brazzaville		3								3
Bredeney	2	3	3	3	1		2	5	8	27
Bron		1								1
Buzu			1						1	2
California								2		2
Cannstatt					1					1
Caracas					1					1
Carmel	1									1
Carrau	2		2		2				4	10
Cerro	1	4	2	4	5			7	10	33
Cerro var. 14+					1				1	2
Chandans					1					1
Chester	1	3	5		7		1	1	11	29
Chicago								1		1
Chincol			1							1
Choleraesuis	2	1	1	1	1		3	1	2	12
Choleraesuis var. Kunzendorf	1	3	1	1		1		3	1	11
Clackamas		1								1
Claibornei		1								1
Coeln		1		1					2	4
Colindale	2	4	1			1	2	1	2	13
Concord	3	4	2	3				1	4	17
Corvallis		3	7	1	3			3	6	23
Cotham		3	3		2			2	2	12
Croft					1					1
Cubana		5	1		4	1		1	5	17
Cuckmere		1								1
Dahlem									1	1
Dahra				1					1	2
Daytona	1				3	1				5
Denver								1		1
Derby	2	26	24	10	18	7	2	5	45	139
Djakarta									1	1
Djugu						1	1			2
Doorn		1								1
Dublin	6	20	3	4	4		1	9	41	88
Duisburg									1	1
Durban	3	2	3		1				2	11

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Durham		1	1			1	1			4
Duval					1					1
Ealing	1	2	2	1	1	1	1		3	12
Eastbourne	4	2	1	1	3			1	4	16
Edinburg		9	2	1		1		1	3	17
Emek			1		1				1	3
Entebbe					1			1	1	3
Enteritidis	482	1679	707	466	1082	263	160	426	1475	6740
Eppendorf		1		1						2
Essen			1							1
Farsta					1					1
Fayed								1		1
Fischerkietz					1					1
Florida		2							1	3
Fluntern	2							1		3
Friedenau		1								1
Friedrichsfelde								1		1
Frintrop		1								1
Fyris		2								2
Gaminara	7	4	4	4	26	8	15	3	6	77
Garoli						1				1
Gatuni		1							1	2
Georgia					3		2		1	6
Give	4	11	10	2	17	18	28	6	27	123
Give var. 15+									1	1
Glostrup		2							3	5
Grandhaven		1								1
Grumpensis		2	1		1		1	3	1	9
Guinea				1						1
Gwale		1								1
Haardt		4				1				5
Hadar	42	87	29	20	28	16	7	13	33	275
Haifa			5							5
Harburg					1					1
Harcourt					1					1
Hartford	13	34	40	28	40	22	9	3	10	199
Hato			1		2	1				4
Havana	5	3	2	3	4	1	1	2	16	37
Heidelberg	85	325	142	103	232	122	50	98	338	1495
Herston				1	1					2
Hiduddify									1	1
Hillegersberg					1					1
Hindmarsh		1	2	2						5
Hofit	1							1		2
Hoghton					1					1

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Holcomb		1	2							3
Horsham									1	1
Hull			2						1	3
Hvittingfoss	2	17	1	1	3	1	4	2	14	45
Ibadan		1			2					3
Indiana	4	7	2	1	2				12	28
Infantis	31	76	51	52	75	17	28	46	115	491
Inganda									1	1
Inverness		2	2		33	9	2	1		49
Irumu		1		1	3			2	2	9
Isangi		1								1
Israel					1					1
Istanbul	1	6							1	8
Itami									1	1
Ituri		1								1
Javiana	37	107	49	24	714	250	150	46	56	1433
Jerusalem		1								1
Johannesburg	1	6	2		5			1	7	22
Jubilee								1		1
Jukestown		1								1
Kalamu		1								1
Kallo						1				1
Kapemba		1								1
Kedougou		1			2				1	4
Kentucky	8	60	12	2	3	3	2	8	25	123
Kiambu	7	10	13	5	8		7	4	11	65
Kimuenza		1								1
Kingabwa	1					1			2	4
Kintambo		6	5	1		1			2	15
Kirkee								2		2
Kisangani			1							1
Kivu				1						1
Kokomlemle		2								2
Korbol								1		1
Korlebu					1					1
Kortrijk					1					1
Kottbus	1	1	1	2	2	1		3	4	15
Lagos		1								1
Larochelle					2					2
Lexington									1	1
Lexington var. 15+		1								1
Limete			1							1
Lindenburg		3								3
Litchfield	22	41	16	13	33	8	21	7	41	202
Liverpool							1		1	2

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Livingstone		2			1			3	3	9
Loanda					2					2
Lockleaze					2					2
Lomalinda	2		3	1	1			3	10	20
London	1	7	4	7	4	1	3	1	9	37
Luciana					1	1	1			3
Madelia		1		1	9					11
Manhattan	12	11	9	6	14	3	1	3	20	79
Matopeni		2			1					3
Mbandaka	9	33	47	7	31	29	13	17	54	240
Mbandaka var 14+									1	1
Meleagridis	1	1	3	3	4			2	6	20
Memphis						1				1
Menden					1					1
Menston								1		1
Mgulani									2	2
Miami	5	8	3	6	30	2	1	2	7	64
Michigan		1						1	2	4
Mikawasima		4			1	1				6
Minnesota	6	2	6	5	11	1	1	15	10	57
Mississippi	16	24	8	12	276	158	102	4	4	604
Molade					1			1	1	3
Mono				29	2					31
Monschau	1		3		1	1		1	3	10
Montevideo	50	104	76	75	222	98	106	127	203	1061
Mornington		1								1
Moscow		1								1
Muenchen	19	78	56	38	254	106	41	52	109	753
Muenster	8	23	11	13	13	2	1	10	15	96
Nagoya	1									1
Napoli		1							2	3
Nchanga		1								1
Nessziona					3					3
Neudorf					1					1
Newmexico	1	1								2
Newport	120	390	261	225	937	311	427	201	501	3373
Nima		7	1	3	2	1			1	15
Norwich	2	7	4	23	16	27	40			119
Nottingham		1							1	2
Offa									1	1
Ohio	4	15	12	4	5	4	2	2	14	62
Ohio var. 14+			2			3			1	6
Okatie						2				2
Onderstepoort									1	1
Oranienburg	85	108	84	35	104	28	40	124	111	719

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Oranienburg var. 14+	6	1	1		1					9
Orion				1	1	1			2	5
Oritamerin		1								1
Os					1					1
Oslo	3	3	1		2	1		1	12	23
Othmarschen		3	1	1	4			1	1	11
Ouakam		1							3	4
Overschie	1							1	1	3
Oxford var. 15+, 34+			1							1
Pakistan					5				1	6
Panama	14	34	6	16	21	5	5	57	41	199
Paratyphi A	14	54	19	7	27	4	1	2	54	182
Paratyphi B	5	21	25	14	29	17	2	8	17	138
Paratyphi B var. L(+) tartrate+	26	65	49	51	41	45	16	44	80	417
Paratyphi C		1								1
Penarth					1					1
Pensacola	1	6			6					13
Plymouth									2	2
Poano			1	2			2			5
Pomona	6	24	9	4	16	2	2	20	8	91
Poona	4	26	17	10	25	13	7	54	48	204
Portland				1					1	2
Potsdam					4	2			12	18
Powell		1								1
Praha		1								1
Presov		1								1
Putten			2							2
Reading	6	8	5	5	8	2		6	11	51
Redlands		1								1
Remo								2		2
Richmond	3	2	1	2	1					9
Rissen		2	1	3	1	1			10	18
Romanby		1								1
Roodepoort	1	1				4			3	9
Rovaniemi		1								1
Rubislaw	5	3	1	2	36	21	26	1	1	96
Saarbruecken					3					3
Saintpaul	41	111	68	38	123	39	14	54	100	588
Salford									1	1
Sandiego	31	59	18	16	51	6	2	21	17	221
Sanjuan								1		1
Sanktgeorg		2								2
Saphra							1			1
Schleissheim						6				6
Schwarzengrund	21	63	20	7	13	4	4	16	26	174

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Senftenberg	4	15	7	7	11	9	6	17	37	113
Shubra			1			2				3
Simi								2		2
Singapore			1		1	1	2		2	7
Sinstorf								1		1
Soerenga	1								2	3
Somone		1								1
Stanley	15	63	33	14	20	14	2	18	136	315
Stanleyville		1		1	2			1		5
Suberu					1					1
Suelldorf		1								1
Sundsvall								3		3
Takoradi			1		2					3
Tallahassee			2		6	3				11
Tamberma			1							1
Tanzania				1						1
Teitelkebir	1	6	5	1	11	4	1	9	15	53
Tennessee	12	72	49	32	52	31	16	28	20	312
Thompson	31	101	52	54	77	23	15	42	52	447
Tilene									1	1
Tornow		1								1
Toucra									1	1
Treguier		1								1
Tshiongwe					1			2		3
Typhi	27	149	35	8	62	8	4	18	102	413
Typhimurium	360	1043	600	593	1232	464	483	370	772	5917
Typhimurium var. 5-	76	142	96	98	185	65		74	219	955
Tyresoe					1					1
Uganda	4	11	10	2	9	1	5	4	13	59
Umbilo								1		1
Uppsala							1			1
Urbana	2	4	6	4	5	1	7		7	36
Uzaramo	1	1								2
Vinohrady									1	1
Virchow	5	16	9	10	9	3	1	7	20	80
Virginia		2		1	5	1			4	13
Wandsworth		2		2				1	2	7
Waycross		1						1		2
Weltevreden	8	11	14		8			3	47	91
Weltevreden var. 15+									4	4
Westhampton									3	3
Widemarsh		1			1					2
Wien					3					3
Worthington	1	4	4	3	7	4	3	1	6	33
Yoruba									1	1

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Zwickau		1								1
I 3,10:e,h:-					1				1	2
I 3,10:l,v:-	1								1	2
I 3,10:r:-				3						3
I 4,[5],12:-:1,2	1	6	3		2		1		2	15
I 4,[5],12:b:-	2	19	10	1	4	2		3	29	70
I 4,[5],12:b:- var. L(+) tartrate+			19	1	3			2	2	27
I 4,[5],12:d:-		1			1	1				3
I 4,[5],12:e,h:-	3	1							1	5
I 4,[5],12:i:-	116	204	324	124	79	24	2	67	260	1200
I 4,[5],12:r:-					1					1
I 6,14,25:-:l,z13,z28								1		1
I 6,14,25:b:-									1	1
I 6,7:-:1,5	1	5	2		5				2	15
I 6,7:c:-									1	1
I 6,7:e,h:-						1			1	2
I 6,7:i:-		1								1
I 6,7:k:-	1	4			1				11	17
I 6,7:l,w:-		1								1
I 6,7:r:-			2							2
I 6,8,20:z4,z24:-								1		1
I 6,8:-:1,2		1								1
I 6,8:d:-					1					1
I 6,8:e,h:-					1	1				2
I 9,12:-:1,5									3	3
I 9,12:g,z51:-								1		1
I 9,12:l,v:-	1	1								2
I 9,12:l,z28:-	1		1	1		3	1		2	9
I 11:z10:-	1									1
I 13,22:z:-						1				1
I 13,23:b:-					1	1			2	4
I 28:i:-				1						1
I 43:k:-								1	2	3
I 45:b:-			2							2
I 47:z4,z23:-	2	5		2	3				1	13
II 6,7:z:1,5		1								1
II 21:z10:[z6]								1		1
II 30:l,z28:z6									1	1
II 35:l,z28:-						1				1
II 40:z39:1,7		1								1
II 47:b:1,5								2		2
II 47:b:e,n,x,z15			1							1
II 48:a:z6								1		1
II 48:d:z6			2							2
II 50:b:z6	1							1		2

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II 58:c:z6					1			1		2
II 58:l,z13,z28:z6				1				1		2
IIIa 13,22:z4,z23:-			1							1
IIIa 13,23:g,z51:-					1					1
IIIa 18:z36:-								1		1
IIIa 18:z4,z23:-			1						18	19
IIIa 18:z4,z32:-									1	1
IIIa 21:g,z51:-									2	2
IIIa 21:z36:-								1		1
IIIa 35:z4,z23:-	1									1
IIIa 40:z4,z23:-		1		1						2
IIIa 40:z4,z24:-								1		1
IIIa 41:z4,z23:-	1		1	3	1				5	11
IIIa 42:z4,z23:-									1	1
IIIa 44:z4,z24:-									2	2
IIIa 47:z4,z23:-								3		3
IIIa 48:g,z51:-					2				4	6
IIIa 48:z29:-								1		1
IIIa 48:z36:-									1	1
IIIa 48:z4,z24:-			1	1					2	4
IIIa 50:z4,z32:-					2					2
IIIa 51:z4,z23:-									1	1
IIIa 53:z4,z23:-									5	5
IIIa 56:z4,z23:-									1	1
IIIa 63:z4,z23:-									2	2
IIIb 11:l,[v],[z13]:z53									1	1
IIIb 35:i:z									1	1
IIIb 35:k:e,n,x,z15			1							1
IIIb 35:r:e,n,x,z15									1	1
IIIb 38:(k):-			1							1
IIIb 38:(k):z35				1						1
IIIb 42:(k):z35				1						1
IIIb 47:k:z35			1							1
IIIb 48:-:z35									1	1
IIIb 48:i:-								1		1
IIIb 48:i:z			4		1				3	8
IIIb 50:k:z								1		1
IIIb 50:k:z53									2	2
IIIb 50:r:z		1		3				2	4	10
IIIb 50:z52:z35									1	1
IIIb 53:k:e,n,x,z15								1		1
IIIb 53:z10:z35				1						1
IIIb 60:r:e,n,x,z15									4	4
IIIb 60:z52:z53		1							1	2
IIIb 61:c:z35									1	1

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IIIb 61:i:z53									1	1
IIIb 61:k:1,5,[7]				1					1	2
IIIb 61:l,[v],[z13]:1,5,[7]		1		2				1	7	11
IIIb 61:z52:z53	2	1							1	4
IIIb 65:z10:e,n,x,z15									2	2
IV 6,7:z4,z24:-								1		1
IV 11:z4,z23:-			1					1	1	3
IV 16:z4,z32:-		2		1				1	3	7
IV 40:z4,z24:-					1					1
IV 40:z4,z32:-					1					1
IV 43:z4,z23:-		1			3					4
IV 44:z4,z23:-	1	1	2		3				4	11
IV 44:z4,z32:-		2	1	1				1	2	7
IV 45:g,z51:-		1		1	2			1	2	7
IV 48:g,z51:-	2	1	1	1	1	1		2	2	11
IV 48:z4,z32:-	1				2					3
IV 50:g,z51:-	3	4	1	1				2	5	16
IV 50:z4,z23:-	1		2	2	56				3	64
IV 50:z4,z32:-	1	1								2
Partially serotyped	6	56	93	46	725	106	277	128	11	1448
Rough, mucoid, and/or nonmotile isolates	11	6	14	9	4		1	19	46	110
Unknown	126	79	214	49	102	708	2612	132	20	4042
Total	2300	6425	3955	2728	7911	3387	4928	2728	6304	40666