

Serovar and Phagetype	Number of Antimicrobials in Resistance Pattern	Pattern	Number of Isolates
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Cattle

Abattoir Surveillance

E Coli n=155

<i>E Coli</i>	10	AMC-AMP-FOX-TIO-CEP-CHL-STR-SMX-TCY-SXT-	2
<i>E Coli</i>	4	CHL-STR-SMX-TCY-	2
<i>E Coli</i>	4	NAL-STR-SMX-TCY-	1
<i>E Coli</i>	3	STR-SMX-TCY-	4
<i>E Coli</i>	3	AMP-STR-TCY-	2
<i>E Coli</i>	3	CEP-STR-TCY-	1
<i>E Coli</i>	2	SMX-TCY-	13
<i>E Coli</i>	2	STR-TCY-	5
<i>E Coli</i>	2	AMP-TCY-	1
<i>E Coli</i>	2	FOX-TCY-	1
<i>E Coli</i>	1	TCY-	13
<i>E Coli</i>	1	STR-	4
<i>E Coli</i>	1	SMX-	3
<i>E Coli</i>	1	CEP-	1
<i>E Coli</i>	0	None	102

Swine

Abattoir Surveillance

E Coli n=155

<i>E Coli</i>	7	AMP-CHL-GEN-STR-SMX-TCY-SXT-	1
<i>E Coli</i>	7	AMP-CHL-KAN-STR-SMX-TCY-SXT-	1
<i>E Coli</i>	6	AMP-CHL-KAN-STR-SMX-TCY-	3
<i>E Coli</i>	6	AMP-CEP-CHL-KAN-SMX-TCY-	1
<i>E Coli</i>	6	AMP-CEP-GEN-STR-SMX-TCY-	1
<i>E Coli</i>	6	AMP-CHL-GEN-STR-SMX-TCY-	1
<i>E Coli</i>	6	AMP-KAN-STR-SMX-TCY-SXT-	1
<i>E Coli</i>	5	AMP-KAN-STR-SMX-TCY-	6
<i>E Coli</i>	5	AMP-STR-SMX-TCY-SXT-	4
<i>E Coli</i>	5	AMP-CHL-STR-SMX-TCY-	2
<i>E Coli</i>	5	AMP-CEP-CHL-SMX-TCY-	1
<i>E Coli</i>	5	AMP-CHL-NAL-SMX-TCY-	1
<i>E Coli</i>	5	CHL-STR-SMX-TCY-SXT-	1
<i>E Coli</i>	5	KAN-STR-SMX-TCY-SXT-	1
<i>E Coli</i>	4	AMP-STR-SMX-TCY-	6
<i>E Coli</i>	4	AMP-SMX-TCY-SXT-	5
<i>E Coli</i>	4	AMP-CHL-SMX-TCY-	3
<i>E Coli</i>	4	GEN-STR-SMX-TCY-	3
<i>E Coli</i>	4	AMP-KAN-STR-TCY-	2
<i>E Coli</i>	4	CHL-STR-SMX-TCY-	2
<i>E Coli</i>	4	KAN-STR-SMX-TCY-	2
<i>E Coli</i>	4	CEP-SMX-TCY-SXT-	1
<i>E Coli</i>	3	STR-SMX-TCY-	10
<i>E Coli</i>	3	SMX-TCY-SXT-	6
<i>E Coli</i>	3	AMP-SMX-TCY-	3
<i>E Coli</i>	3	CHL-SMX-TCY-	3
<i>E Coli</i>	3	AMP-STR-TCY-	2
<i>E Coli</i>	3	AMP-KAN-SMX-	1
<i>E Coli</i>	3	AMP-STR-SMX-	1
<i>E Coli</i>	3	KAN-STR-TCY-	1
<i>E Coli</i>	2	SMX-TCY-	12
<i>E Coli</i>	2	STR-TCY-	8
<i>E Coli</i>	2	AMP-TCY-	7
<i>E Coli</i>	2	STR-SMX-	2
<i>E Coli</i>	2	FOX-TCY-	1
<i>E Coli</i>	2	SMX-SXT-	1
<i>E Coli</i>	1	TCY-	25
<i>E Coli</i>	1	AMP-	2
<i>E Coli</i>	1	SMX-	2
<i>E Coli</i>	1	STR-	1
<i>E Coli</i>	0	None	18

Serovar and Phagetype	Number of Antimicrobials in Resistance Pattern	Pattern	Number of Isolates
Swine			
Abattoir Surveillance			
<i>Salmonella</i> n=395			
Infantis	9	ACSSUT-A3C-	1
Typhimurium	7	ACKSSUT-SXT-	5
Typhimurium var. copenhagen	6	ACKSSUT-	11
Typhimurium	6	ACKSSUT-	2
Johannesburg	6	ACKSSUT-	1
Krefeld	6	ACKSSUT-	1
Typhimurium var. copenhagen	5	ACSSUT-	30
Mbandaka	5	GEN-KAN-STR-SMX-TCY-	5
Typhimurium var. copenhagen	5	AKSSUT-	3
Derby	5	CHL-STR-SMX-TCY-SXT-	2
Typhimurium	5	ACSSUT-	2
Brandenburg	5	GEN-KAN-STR-SMX-TCY-	1
I:4,12:i:-	5	ACSSUT-	1
Typhimurium	5	AMP-KAN-SMX-TCY-SXT-	1
Typhimurium var. copenhagen	5	CEP-KAN-STR-SMX-TCY-	1
Typhimurium var. copenhagen	4	KAN-STR-SMX-TCY-	4
Derby	4	AMP-STR-SMX-TCY-	2
Derby	4	KAN-STR-SMX-TCY-	1
Give var.15+	4	CHL-STR-SMX-TCY-	1
Heidelberg	4	STR-SMX-TCY-SXT-	1
I:4,12:i:-	4	KAN-STR-SMX-TCY-	1
Ohio	4	CHL-STR-SMX-TCY-	1
Senftenberg	4	AMP-CHL-KAN-STR-	1
Typhimurium var. copenhagen	4	AMP-CHL-SMX-TCY-	1
Typhimurium var. copenhagen	4	AMP-KAN-SMX-TCY-	1
Typhimurium var. copenhagen	4	AMP-KAN-STR-TCY-	1
Derby	3	STR-SMX-TCY-	26
Schwarzengrund	3	STR-SMX-TCY-	5
Agona	3	STR-SMX-TCY-	1
Johannesburg	3	STR-SMX-TCY-	1
Manhattan	3	STR-SMX-TCY-	1
Mbandaka	3	KAN-STR-TCY-	1
Putten	3	GEN-STR-SMX-	1
Typhimurium var. copenhagen	3	KAN-SMX-TCY-	1
Agona	2	SMX-TCY-	3
Brandenburg	2	STR-TCY-	3
Derby	2	STR-SMX-	3
Heidelberg	2	STR-TCY-	3
Anatum	2	AMP-STR-	2
Derby	2	STR-TCY-	2
Typhimurium var. copenhagen	2	STR-SMX-	2
Ohio	2	STR-TCY-	1
Typhimurium	2	KAN-TCY-	1
Typhimurium var. copenhagen	1	TCY	15
Derby	1	TCY-	12
Typhimurium	1	TCY-	9
Typhimurium var. copenhagen	1	AMP-	3
Brandenburg	1	TCY-	2
Infantis	1	TCY-	2
Worthington	1	TCY-	2
Anatum	1	STR-	1
Anatum	1	TCY-	1
Bovismorbificans	1	TCY-	1
Heidelberg	1	STR-	1
Heidelberg	1	TCY-	1
I:10:i:-1,6	1	AMP-	1
London	1	TCY-	1
Schwarzengrund	1	TCY-	1
Derby	0	None	31
Infantis	0	None	30
Brandenburg	0	None	13
Bovismorbificans	0	None	12

Serovar and Phagetype	Number of Antimicrobials in Resistance Pattern	Pattern	Number of Isolates
Typhimurium	0	None	12
California	0	None	10
Give	0	None	9
Livingstone var.14+	0	None	9
Typhimurium var. copenhagen	0	None	7
Heidelberg	0	None	6
Ohio	0	None	6
Enteritidis	0	None	5
London	0	None	4
Muenchen	0	None	4
Senftenberg	0	None	4
Mbandaka	0	None	3
Ohio var.14+	0	None	3
Schwarzengrund	0	None	3
Tennessee	0	None	3
Worthington	0	None	3
Agona	0	None	2
Berta	0	None	2
I:4,5:-:-	0	None	2
Livingstone	0	None	2
Meleagridis	0	None	2
Montevideo	0	None	2
Rubislaw	0	None	2
Anatum var.15+	0	None	1
Essen	0	None	1
I:11:r:-	0	None	1
I:19:-st:-	0	None	1
I:4,12:-:-	0	None	1
I:4,12:-:enz15	0	None	1
I:4,12:i:-	0	None	1
I:4,5,12:i:-	0	None	1
I:4,5,12:r:-	0	None	1
Krefeld	0	None	1
Manhattan	0	None	1
Putten	0	None	1

Chicken

Abattoir Surveillance

E Coli n=150

<i>E Coli</i>	15	ACKSSUT-A3C-GEN-	1
<i>E Coli</i>	14	ACSSUT-A3C-GEN-	1
<i>E Coli</i>	14	ACSSUT-A3C-SXT-	1
<i>E Coli</i>	13	ACKSSUT-AMC-FOX-CEP-	1
<i>E Coli</i>	11	A3C-AMP-GEN-KAN-NAL-SMX-TCY-SXT-	1
<i>E Coli</i>	9	ACSSUT-A3C-	9
<i>E Coli</i>	9	AKSSUT-A3C-	2
<i>E Coli</i>	9	A3C-AMP-NAL-STR-SMX-TCY-	1
<i>E Coli</i>	9	A3C-AMP-STR-SMX-TCY-SXT-	1
<i>E Coli</i>	8	A3C-AMP-GEN-SMX-TCY-	1
<i>E Coli</i>	8	A3C-AMP-KAN-SMX-TCY-	1
<i>E Coli</i>	8	A3C-AMP-STR-SMX-TCY-	1
<i>E Coli</i>	7	AMC-AMP-FOX-CEP-SMX-TCY-SXT-	2
<i>E Coli</i>	7	AMC-AMP-FOX-CEP-GEN-SMX-TCY-	1
<i>E Coli</i>	7	A3C-AMP-SMX-TCY-	1
<i>E Coli</i>	7	A3C-AMP-STR-TCY-	1
<i>E Coli</i>	6	AMP-GEN-STR-SMX-TCY-SXT-	2
<i>E Coli</i>	6	A3C-AMP-STR -	1
<i>E Coli</i>	6	A3C-AMP-TCY-	1
<i>E Coli</i>	6	CEP-KAN-STR-SMX-TCY-SXT-	1
<i>E Coli</i>	5	AMP-GEN-STR-SMX-TCY-	3
<i>E Coli</i>	5	GEN-KAN-STR-SMX-TCY-	3
<i>E Coli</i>	5	A3C-AMP-	2
<i>E Coli</i>	5	AMC-AMP-CEP-STR-TCY-	1
<i>E Coli</i>	5	AMP-CEP-SMX-TCY-SXT-	1
<i>E Coli</i>	5	AKSSUT-	1
<i>E Coli</i>	5	KAN-NAL-STR-SMX-TCY-	1

Serovar and Phagetype	Number of Antimicrobials in Resistance Pattern	Pattern	Number of Isolates
<i>E Coli</i>	4	GEN-STR-SMX-TCY-	6
<i>E Coli</i>	4	KAN-STR-SMX-TCY-	5
<i>E Coli</i>	4	AMC-AMP-FOX-CEP-	3
<i>E Coli</i>	4	AMP-KAN-STR-TCY-	2
<i>E Coli</i>	4	AMP-CEP-SMX-TCY-	1
<i>E Coli</i>	4	AMP-CEP-STR-TCY-	1
<i>E Coli</i>	4	AMP-STR-SMX-TCY-	1
<i>E Coli</i>	4	CHL-STR-SMX-TCY-	1
<i>E Coli</i>	4	GEN-NAL-SMX-TCY-	1
<i>E Coli</i>	3	AMP-STR-TCY-	6
<i>E Coli</i>	3	GEN-STR-SMX-	2
<i>E Coli</i>	3	KAN-STR-TCY-	2
<i>E Coli</i>	3	AMP-CEP-SMX-	1
<i>E Coli</i>	3	AMP-CEP-STR-	1
<i>E Coli</i>	3	AMP-CEP-TCY-	1
<i>E Coli</i>	3	AMP-KAN-STR-	1
<i>E Coli</i>	3	AMP-KAN-TCY-	1
<i>E Coli</i>	3	CEP-STR-TCY-	1
<i>E Coli</i>	3	GEN-SMX-TCY-	1
<i>E Coli</i>	3	KAN-SMX-TCY-	1
<i>E Coli</i>	3	SMX-TCY-SXT-	1
<i>E Coli</i>	3	STR-SMX-TCY-	1
<i>E Coli</i>	2	STR-TCY-	12
<i>E Coli</i>	2	KAN-TCY-	4
<i>E Coli</i>	2	SMX-TCY-	2
<i>E Coli</i>	2	AMP-CEP-	1
<i>E Coli</i>	2	AMP-STR-	1
<i>E Coli</i>	2	AMP-TCY-	1
<i>E Coli</i>	2	SMX-SXT-	1
<i>E Coli</i>	1	TCY-	11
<i>E Coli</i>	1	STR-	4
<i>E Coli</i>	1	AMP-	2
<i>E Coli</i>	1	NAL-	2
<i>E Coli</i>	1	SXT-	1
<i>E Coli</i>	0	None	24

Chicken

Abattoir Surveillance

Salmonella n=126			
Oranienburg	7	AMP-TIO-CRO-CEP-GEN-STR-SMX-	1
Heidelberg	5	A3C-AMP-	4
Typhimurium	5	ACSSUT-	2
Agona	5	A3C-AMP-	1
Derby	5	A3C-AMP-	1
Thompson	5	A3C-AMP-	1
Hadar	4	AMP-CEP-STR-TCY-	4
Heidelberg	4	AMP-GEN-STR-SMX-	1
I:rough-o:z10:enx	4	AMP-CEP-STR-TCY-	1
Typhimurium var. copenhagen	4	AMP-KAN-SMX-TCY-	1
Heidelberg	3	GEN-STR-SMX-	2
Heidelberg	3	KAN-STR-TCY-	2
Hadar	3	AMP-STR-TCY-	1
Heidelberg	3	KAN-SMX-SXT-	1
Mbandaka	3	STR-SMX-TCY-	1
Schwarzengrund	3	GEN-STR-SMX-	1
Hadar	2	STR-TCY-	8
Heidelberg	2	AMP-CEP-	3
Heidelberg	2	AMP-STR-	3
Hadar	2	AMP-TCY-	1
Heidelberg	2	GEN-SMX-	1
Heidelberg	2	STR-TCY-	1
Kentucky	2	STR-TCY-	1
Heidelberg	1	AMP-	7
Hadar	1	TCY-	1
Infantis	1	STR-	1
Heidelberg	0	None	38

Serovar and Phagetype	Number of Antimicrobials in Resistance Pattern	Pattern	Number of Isolates
Kentucky	0	None	17
Infantis	0	None	4
I:4,5,12:i:-	0	None	3
Thompson	0	None	3
Schwarzengrund	0	None	2
Braenderup	0	None	1
Brandenburg	0	None	1
Mbandaka	0	None	1
Ohio	0	None	1
Rissen	0	None	1
Tennessee	0	None	1
Typhimurium var. copenhagen	0	None	1

Beef

Retail Surveillance

E. Coli

Ontario n=100

<i>E. Coli</i>	9	ACSSUT-A3C-	1
<i>E. Coli</i>	6	AMP-FOX-CEP-CHL-STR-TCY-	1
<i>E. Coli</i>	5	AMP-STR-SMX-TCY-SXT-	1
<i>E. Coli</i>	5	CHL-STR-SMX-TCY-SXT-	1
<i>E. Coli</i>	4	AMP-STR-SMX-TCY-	1
<i>E. Coli</i>	4	AMP-TIO-STR-TCY-	1
<i>E. Coli</i>	4	KAN-STR-SMX-TCY-	1
<i>E. Coli</i>	3	AMC-FOX-STR-	1
<i>E. Coli</i>	3	AMP-SMX-TCY-	1
<i>E. Coli</i>	3	AMP-STR-TCY-	1
<i>E. Coli</i>	3	STR-SMX-TCY-	1
<i>E. Coli</i>	2	SMX-TCY-	7
<i>E. Coli</i>	2	AMC-CEP-	1
<i>E. Coli</i>	2	AMP-TCY-	1
<i>E. Coli</i>	2	KAN-TCY-	1
<i>E. Coli</i>	1	CEP-	1
<i>E. Coli</i>	1	STR-	1
<i>E. Coli</i>	0	None	73
<i>E. Coli</i>	1	TCY-	4

Retail Surveillance

E. Coli

Québec n=84

<i>E. Coli</i>	6	AMC-AMP-CEP-CHL-GEN-STR-	1
<i>E. Coli</i>	4	AMP-SMX-TCY-SXT-	1
<i>E. Coli</i>	3	AMP-SMX-TCY-	1
<i>E. Coli</i>	3	AMP-STR-TCY-	1
<i>E. Coli</i>	3	CEP-STR-TCY-	1
<i>E. Coli</i>	3	KAN-NAL-TCY-	1
<i>E. Coli</i>	3	KAN-SMX-TCY-	1
<i>E. Coli</i>	3	STR-SMX-TCY-	1
<i>E. Coli</i>	2	SMX-TCY-	2
<i>E. Coli</i>	2	AMP-STR-	1
<i>E. Coli</i>	2	AMP-TCY-	1
<i>E. Coli</i>	1	TCY-	6
<i>E. Coli</i>	1	STR-	1
<i>E. Coli</i>	0	None	65

Pork

Retail Surveillance

E. Coli

Ontario n=91

<i>E. Coli</i>	9	ACKSSUT-AMC-TIO-CEP-	1
<i>E. Coli</i>	5	ACSSUT-	1
<i>E. Coli</i>	5	AMC-AMP-FOX-CEP-TCY-	1
<i>E. Coli</i>	5	AMP-CEP-STR-SMX-TCY-	1
<i>E. Coli</i>	5	CHL-KAN-SMX-TCY-SXT-	1

Serovar and Phagetype	Number of Antimicrobials in Resistance Pattern	Pattern	Number of Isolates
<i>E. Coli</i>	4	AMC-AMP-FOX-CEP-	2
<i>E. Coli</i>	4	AMP-STR-SMX-TCY-	2
<i>E. Coli</i>	4	AMP-CHL-SMX-TCY-	1
<i>E. Coli</i>	4	AMP-SMX-TCY-SXT-	1
<i>E. Coli</i>	4	CHL-STR-SMX-TCY-	1
<i>E. Coli</i>	3	STR-SMX-TCY-	3
<i>E. Coli</i>	3	AMP-STR-TCY-	2
<i>E. Coli</i>	3	CHL-SMX-TCY-	2
<i>E. Coli</i>	3	AMP-KAN-SMX-	1
<i>E. Coli</i>	3	AMP-SMX-TCY-	1
<i>E. Coli</i>	3	GEN-SMX-TCY-	1
<i>E. Coli</i>	3	KAN-STR-TCY-	1
<i>E. Coli</i>	3	SMX-TCY-SXT-	1
<i>E. Coli</i>	3	STR-SMX-SXT-	1
<i>E. Coli</i>	2	SMX-TCY-	7
<i>E. Coli</i>	2	AMP-TCY-	4
<i>E. Coli</i>	2	AMC-CEP-	2
<i>E. Coli</i>	2	KAN-TCY-	1
<i>E. Coli</i>	2	STR-TCY-	1
<i>E. Coli</i>	1	TCY-	16
<i>E. Coli</i>	1	SMX-	1
<i>E. Coli</i>	1	STR-	1
<i>E. Coli</i>	0	None	33

Retail Surveillance

E. Coli

Québec n=61

<i>E. Coli</i>	8	ACSSUT-AMC-FOX-CEP-	1
<i>E. Coli</i>	6	ACSSUT-SXT-	1
<i>E. Coli</i>	6	AMP-CEP-STR-SMX-TCY-SXT-	1
<i>E. Coli</i>	6	FOX-CEP-STR-SMX-TCY-SXT-	1
<i>E. Coli</i>	5	GEN-KAN-STR-SMX-TCY-	1
<i>E. Coli</i>	4	AMP-SMX-TCY-SXT-	2
<i>E. Coli</i>	4	AMP-STR-SMX-TCY-	2
<i>E. Coli</i>	4	AMP-KAN-STR-TCY-	1
<i>E. Coli</i>	4	CHL-SMX-TCY-SXT-	1
<i>E. Coli</i>	4	CHL-STR-SMX-TCY-	1
<i>E. Coli</i>	3	CHL-SMX-TCY-	2
<i>E. Coli</i>	3	AMP-SMX-TCY-	1
<i>E. Coli</i>	3	AMP-STR-TCY-	1
<i>E. Coli</i>	3	STR-SMX-TCY-	1
<i>E. Coli</i>	2	STR-TCY-	5
<i>E. Coli</i>	2	SMX-TCY-	3
<i>E. Coli</i>	2	AMP-TCY-	2
<i>E. Coli</i>	2	FOX-CEP-	2
<i>E. Coli</i>	2	STR-SMX-	1
<i>E. Coli</i>	1	TCY-	2
<i>E. Coli</i>	1	CEP-	1
<i>E. Coli</i>	0	None	28

Chicken

Retail Surveillance

E. Coli

Ontario n=136

<i>E. Coli</i>	11	ACKSSUT-A3C-GEN-	1
<i>E. Coli</i>	10	A3C-AMP-GEN-STR-SMX-TCY-SXT-	2
<i>E. Coli</i>	9	ACSSUT-A3C-	5
<i>E. Coli</i>	8	A3C-AMP-STR-SMX-TCY-	1
<i>E. Coli</i>	8	ACSSUT-AMC-FOX-CEP-	1
<i>E. Coli</i>	8	AMC-AMP-FOX-CEP-NAL-SMX-TCY-SXT-	1
<i>E. Coli</i>	7	A3C-AMP-KAN-TCY-	2
<i>E. Coli</i>	7	A3C-AMP-KAN-STR-	1
<i>E. Coli</i>	7	A3C-AMP-SMX-TCY-	1
<i>E. Coli</i>	7	AMC-AMP-FOX-CEP-SMX-TCY-SXT-	1
<i>E. Coli</i>	6	A3C-AMP-STR-	1
<i>E. Coli</i>	6	AKSSUT-CEP-	1

Serovar and Phagetype	Number of Antimicrobials in Resistance Pattern	Pattern	Number of Isolates
<i>E. Coli</i>	6	AMC-AMP-FOX-CEP-KAN-TCY-	1
<i>E. Coli</i>	6	AMC-AMP-FOX-CEP-STR-TCY-	1
<i>E. Coli</i>	5	A3C-AMP-	6
<i>E. Coli</i>	4	A3C-AMP-STR-TCY-	4
<i>E. Coli</i>	4	GEN-KAN-SMX-TCY-	2
<i>E. Coli</i>	4	AMC-AMP-CEP-TCY-	1
<i>E. Coli</i>	4	AMC-AMP-FOX-CEP-	1
<i>E. Coli</i>	4	AMC-AMP-SMX-TCY-	1
<i>E. Coli</i>	4	AMP-STR-SMX-TCY-	1
<i>E. Coli</i>	4	GEN-STR-SMX-SXT-	1
<i>E. Coli</i>	4	GEN-STR-SMX-TCY-	1
<i>E. Coli</i>	4	KAN-STR-SMX-TCY-	1
<i>E. Coli</i>	3	AMP-STR-TCY-	8
<i>E. Coli</i>	3	STR-SMX-TCY-	3
<i>E. Coli</i>	3	AMC-AMP-CEP-	1
<i>E. Coli</i>	3	GEN-SMX-TCY-	1
<i>E. Coli</i>	3	GEN-STR-SMX-	1
<i>E. Coli</i>	3	KAN-SMX-TCY-	1
<i>E. Coli</i>	3	KAN-STR-TCY-	1
<i>E. Coli</i>	2	STR-TCY-	6
<i>E. Coli</i>	2	SMX-TCY-	5
<i>E. Coli</i>	2	AMP-TCY-	2
<i>E. Coli</i>	2	AMP-SMX-	1
<i>E. Coli</i>	2	CEP-TCY-	1
<i>E. Coli</i>	2	KAN-TCY-	1
<i>E. Coli</i>	1	TCY-	11
<i>E. Coli</i>	1	AMP-	2
<i>E. Coli</i>	1	STR-	2
<i>E. Coli</i>	1	CEP-	1
<i>E. Coli</i>	1	NAL-	1
<i>E. Coli</i>	0	None	48

Retail Surveillance

<i>E. Coli</i>			
Québec n=112			
<i>E. Coli</i>	11	ACKSSUT-A3C-GEN-	1
<i>E. Coli</i>	11	AKSSUT-A3C-GEN-SXT-	1
<i>E. Coli</i>	10	ACSSUT-A3C-GEN-	2
<i>E. Coli</i>	10	ACKSSUT-A3C-	1
<i>E. Coli</i>	9	ACSSUT-A3C-	10
<i>E. Coli</i>	9	A3C-AMP-GEN-STR-SMX-TCY-	2
<i>E. Coli</i>	9	A3C-AMP-GEN-STR-SMX-SXT-	1
<i>E. Coli</i>	9	A3C-AMP-STR-SMX-TCY-SXT-	1
<i>E. Coli</i>	9	ACSSUT-AMC-FOX-CEP-GEN-	1
<i>E. Coli</i>	9	AKSSUT-A3C-	1
<i>E. Coli</i>	8	A3C-AMP-GEN-STR-SMX-	1
<i>E. Coli</i>	8	ACSSUT-AMC-FOX-CEP-	1
<i>E. Coli</i>	8	ACSSUT-FOX-CEP-SXT-	1
<i>E. Coli</i>	8	AMC-AMP-FOX-CEP-GEN-STR-SMX-SXT-	1
<i>E. Coli</i>	7	A3C-AMP-SMX-TCY-	3
<i>E. Coli</i>	7	A3C-AMP-STR-TCY-	3
<i>E. Coli</i>	7	A3C-AMP-TCY-SXT-	1
<i>E. Coli</i>	7	ACKSSUT-SXT-	1
<i>E. Coli</i>	6	A3C-AMP-STR-	4
<i>E. Coli</i>	6	A3C-AMP-TCY-	2
<i>E. Coli</i>	6	ACKSSUT-	1
<i>E. Coli</i>	6	AMC-AMP-FOX-CEP-STR-TCY-	1
<i>E. Coli</i>	6	AMP-CEP-GEN-SMX-TCY-SXT-	1
<i>E. Coli</i>	6	AMP-CEP-GEN-STR-SMX-TCY-	1
<i>E. Coli</i>	5	A3C-AMP-	3
<i>E. Coli</i>	5	AMC-AMP-FOX-CEP-TCY-	2
<i>E. Coli</i>	5	AMP-CEP-GEN-SMX-TCY-	1
<i>E. Coli</i>	5	CHL-GEN-STR-SMX-TCY-	1
<i>E. Coli</i>	4	AMC-AMP-FOX-CEP-	4
<i>E. Coli</i>	4	GEN-STR-SMX-TCY-	4
<i>E. Coli</i>	4	GEN-STR-SMX-SXT-	2

Serovar and Phagetype	Number of Antimicrobials in Resistance Pattern	Pattern	Number of Isolates
<i>E. Coli</i>	4	KAN-STR-SMX-TCY-	2
<i>E. Coli</i>	4	STR-SMX-TCY-SXT-	1
<i>E. Coli</i>	3	KAN-SMX-TCY-	1
<i>E. Coli</i>	3	KAN-STR-TCY-	1
<i>E. Coli</i>	3	SMX-TCY-SXT-	1
<i>E. Coli</i>	3	STR-SMX-SXT-	1
<i>E. Coli</i>	2	STR-TCY-	4
<i>E. Coli</i>	2	AMP-TCY-	2
<i>E. Coli</i>	2	KAN-TCY-	2
<i>E. Coli</i>	2	FOX-CEP-	1
<i>E. Coli</i>	2	SMX-TCY--	1
<i>E. Coli</i>	2	STR-SMX-	1
<i>E. Coli</i>	1	None	27
<i>E. Coli</i>	1	TCY-	5
<i>E. Coli</i>	1	AMP-	1
<i>E. Coli</i>	1	STR-	1

Chicken

Retail Surveillance

Salmonella

Ontario n=26			
Heidelberg 29	5	A3C-AMP-	2
Heidelberg 18	5	AMP-CEP-GEN-STR-SMX-	1
Heidelberg 52	4	AMC-AMP-TIO-CEP-	1
Heidelberg 18	2	AMP-CEP-	1
Heidelberg 19	0	None	4
Heidelberg Atypical	0	None	4
Kentucky	0	None	3
Agona	0	None	1
Heidelberg 18	0	None	1
Heidelberg 19a	0	None	1
Heidelberg 29	0	None	1
Heidelberg 46	0	None	1
Heidelberg 51	0	None	1
Heidelberg 8	0	None	1
I:rough-o:r:1,2	0	None	1
Infantis	0	None	1
Thompson	0	None	1

Retail Surveillance

Salmonella

Québec n=28			
Heidelberg 32	8	A3C-AMP-GEN-STR-TCY-	1
Heidelberg 29	5	A3C-AMP-	7
Heidelberg 4	5	A3C-AMP-	3
Agona	5	A3C-AMP-	1
Heidelberg 32	5	A3C-AMP-	1
Heidelberg 53	5	A3C-AMP-	1
Hadar	2	STR-TCY-	2
Heidelberg 29	2	STR-TCY-	1
I:6,8:z10:-	2	STR-TCY-	1
Kentucky	2	STR-TCY-	1
Heidelberg 18	1	AMP-	3
Heidelberg 47	0	None	2
Heidelberg 18	0	None	1
Kentucky	0	None	1
Schwarzengrund	0	None	1
Thompson	0	None	1

Chicken

Retail Surveillance

Campylobacter spp.

Ontario n=78

Serovar and Phagetype	Number of Antimicrobials in Resistance Pattern	Pattern	Number of Isolates
Campylobacter jejuni	4	AZM-CLI-ERY-TCY-	2
Campylobacter s	3	AZM-CLI-ERY-	1
Campylobacter s	3	CIP-NAL-TCY-	1
Campylobacter jejuni	3	AZM-CLI-ERY-	2
Campylobacter jejuni	3	AZM-ERY-NAL-	1
Campylobacter coli	3	AZM-CLI-ERY-	1
Campylobacter s	2	CIP-NAL-	2
Campylobacter jejuni	2	AZM-NAL-	1
Campylobacter jejuni	2	CHL-TCY-	1
Campylobacter jejuni	2	NAL-TCY-	1
Campylobacter coli	2	AZM-NAL-	1
Campylobacter s	1	TCY-	2
Campylobacter jejuni	1	TCY-	34
Campylobacter jejuni	1	ERY-	1
Campylobacter jejuni	1	NAL-	1
Campylobacter coli	1	TCY-	4
Campylobacter s	0	None	1
Campylobacter jejuni	0	None	21

Retail Surveillance

Campylobacter spp.

Québec n=94

Campylobacter s	7	AZM-CIP-CLI-ERY-GEN-NAL-TCY-	1
Campylobacter jejuni	4	AZM-CLI-ERY-TCY-	9
Campylobacter coli	4	AZM-CLI-ERY-TCY-	2
Campylobacter jejuni	3	AZM-CLI-ERY-	5
Campylobacter jejuni	3	AZM-ERY-TCY-	2
Campylobacter s	3	CIP-NAL-TCY-	2
Campylobacter coli	3	AZM-CLI-ERY-	1
Campylobacter coli	3	AZM-CLI-NAL-	1
Campylobacter jejuni	2	ERY-TCY-	2
Campylobacter jejuni	2	AZM-NAL-	1
Campylobacter jejuni	1	TCY-	37
Campylobacter s	1	TCY-	6
Campylobacter coli	1	TCY-	5
Campylobacter jejuni	0	None	19
Campylobacter coli	0	None	1

Cattle

Passive Surveillance

Salmonella n=234

Typhimurium var. copenhagen 104 varian	12	ACKSSUT-A3C-GEN-SXT-	15
Typhimurium var. copenhagen 104 varian	11	ACKSSUT-A3C-SXT-	8
Typhimurium var. copenhagen 140 varian	11	ACKSSUT-A3C-CRO-	1
Typhimurium var. copenhagen Untypable	11	ACKSSUT-A3C-CRO-	1
Newport	10	ACKSSUT-A3C-	55
Typhimurium 2	10	ACSSUT-A3C-SXT-	5
Typhimurium var. copenhagen 140 varian	10	ACKSSUT-A3C-	2
Kentucky	10	ACSSUT-A3C-SXT-	1
Typhimurium 140 varian	10	ACSSUT-A3C-SXT-	1
Newport	9	ACSSUT-A3C-	6
Newport	9	AKSSUT-A3C-	1
Typhimurium var. copenhagen 140 varian	9	AKSSUT-A3C-	1
Typhimurium Untypable	8	ACKSSUT-CEP-SXT-	3
Typhimurium 108	8	ACSSUT-AMC-TIO-CEP-	2
Typhimurium var. copenhagen 140 varian	8	ACKSSUT-CEP-GEN-	2
Typhimurium 170	8	ACSSUT-AMC-TIO-CEP-	1
Typhimurium var. copenhagen 140 varian	7	ACKSSUT-GEN-	1

Serovar and Phagetype	Number of Antimicrobials in Resistance Pattern	Pattern	Number of Isolates
Typhimurium var. copenhagen 104	6	ACKSSUT-	2
I:rough-o:i:1,2	6	ACSSUT-SXT-	1
Typhimurium 104	5	ACSSUT-	18
Typhimurium var. copenhagen 104	5	ACSSUT-	13
Typhimurium var. copenhagen 208	5	AKSSUT-	4
Typhimurium var. copenhagen 208 varian	5	AKSSUT-	2
I:rough-o:i:z6	5	CHL-STR-SMX-TCY-SXT-	1
Kentucky	5	CHL-STR-SMX-TCY-SXT-	1
Typhimurium 140 varian	5	ACSSUT-	1
Typhimurium var. copenhagen 21	5	AKSSUT-	1
Typhimurium var. copenhagen 208 varian	4	AMP-KAN-SMX-TCY-	2
Typhimurium 104	4	AMP-CHL-SMX-TCY-	1
Typhimurium var. copenhagen 208	4	AMP-KAN-SMX-TCY-	1
Typhimurium var. copenhagen Untypable	4	AMP-KAN-SMX-TCY-	1
Derby	3	STR-SMX-TCY-	1
Kentucky	1	TCY-	3
Schwarzengrund	1	TCY-	1
Kentucky	0	None	23
I:18:-:-	0	None	10
Muenster	0	None	7
Thompson	0	None	6
I:6,14,18:-:-	0	None	3
Heidelberg	0	None	2
I:-,14,18:-:-	0	None	2
Mbandaka	0	None	2
Anatum var.15+	0	None	1
Brandenburg	0	None	1
Cerro	0	None	1
Heidelberg 47	0	None	1
I:18:z4,z23:-	0	None	1
I:28:y:-	0	None	1
I:rough-o:-:-	0	None	1
Litchfield	0	None	1
Muenchen	0	None	1
Muenster var.15+	0	None	1
Newport	0	None	1
Pomona	0	None	1
Schwarzengrund	0	None	1
Typhimurium 1	0	None	1
Typhimurium 2	0	None	1
Typhimurium var. copenhagen 104a	0	None	1
Typhimurium var. copenhagen 135	0	None	1
Typhimurium var. copenhagen U291	0	None	1
Uganda	0	None	1
Swine			
Passive Surveillance			
<i>Salmonella</i> n=107			
I:6,8:-:enx	11	ACKSSUT-A3C-SXT-	1
Johannesburg	9	ACSSUT-A3C-	1
Typhimurium var. copenhagen 104a	7	ACKSSUT-AMC-	1
Typhimurium var. copenhagen 104	6	ACKSSUT-	6
Typhimurium 104	6	ACKSSUT-	1

Serovar and Phagetype	Number of Antimicrobials in Resistance Pattern	Pattern	Number of Isolates
Typhimurium var. copenhagen U302	6	AKSSUT-GEN-	1
Typhimurium var. copenhagen 104	5	ACSSUT-	13
Typhimurium 104	5	ACSSUT-	6
Typhimurium var. copenhagen 104a	5	ACSSUT-	6
Typhimurium 104b	5	ACSSUT-	2
Typhimurium var. copenhagen 104b	5	ACSSUT-	2
Heidelberg 8	5	KAN-STR-SMX-TCY-SXT-	1
Johannesburg	5	AMP-GEN-STR-SMX-TCY-	1
Ohio	5	ACSSUT-	1
Typhimurium 104	5	AMP-CHL-KAN-SMX-TCY-	1
Typhimurium 104a	5	ACSSUT-	1
Typhimurium var. copenhagen 208	5	AKSSUT-	1
Typhimurium var. copenhagen 35	5	ACSSUT-	1
Typhimurium var. copenhagen Untypable	5	AKSSUT-	1
Derby	4	KAN-STR-SMX-TCY-	1
Typhimurium 104	4	AMP-STR-SMX-TCY-	1
Typhimurium 108	4	AMP-SMX-TCY-SXT-	1
Typhimurium var. copenhagen 12	4	AMP-CHL-SMX-TCY-	1
Typhimurium var. copenhagen 97 variant	4	AMP-STR-SMX-TCY-	1
Typhimurium var. copenhagen Untypable	4	GEN-SMX-TCY-SXT-	1
Derby	3	STR-SMX-TCY-	5
Brandenburg	3	STR-SMX-TCY-	3
Typhimurium 108	3	AMP-SMX-SXT-	1
Typhimurium var. copenhagen 186	3	AMP-STR-TCY-	1
Typhimurium var. copenhagen 193	3	AMP-STR-TCY-	1
Brandenburg	2	SMX-SXT-	1
Derby	2	STR-SMX-	1
Typhimurium 104	2	STR-SMX-	1
Typhimurium 108	2	AMP-TCY-	1
Typhimurium var. copenhagen 12	2	SMX-SXT-	1
Typhimurium var. copenhagen 12	2	SMX-TCY-	1
Typhimurium var. copenhagen 108	1	AMP-	2
Typhimurium var. copenhagen 208	1	TCY-	2
Derby	1	TCY-	1
Infantis	1	TCY-	1
Typhimurium 208	1	TCY-	1
Typhimurium var. copenhagen 12	0	None	4
Brandenburg	0	None	3
London	0	None	3
Typhimurium var. copenhagen U275 varian	0	None	3
Infantis	0	None	2
Typhimurium 12	0	None	2
Agona	0	None	1
Bovismorbificans	0	None	1
Derby	0	None	1
Enteritidis 8	0	None	1
Mbandaka	0	None	1
Typhimurium 146	0	None	1

Serovar and Phagetype	Number of Antimicrobials in Resistance Pattern		Number of Isolates
		Pattern	
Typhimurium 146 varian	0	None	1
Typhimurium 170	0	None	1
Typhimurium U291	0	None	1
Typhimurium var. copenhagen		None	
108	0		1
Typhimurium var. copenhagen		None	
170	0		1
Typhimurium var. copenhagen		None	
35	0	None	1
Chicken			
Passive Surveillance			
<i>Salmonella</i> n=32			
Heidelberg 29	5	A3C-AMP-	2
Hadar	5	AMP-CEP-KAN-STR-TCY-	1
I:4,5,12:r:-	5	A3C-AMP-	1
Typhimurium 104	5	ACSSUT-	1
Hadar	4	AMP-CEP-STR-TCY-	1
Heidelberg 19	4	AMP-GEN-STR-SMX-	1
Heidelberg 29	3	AMP-STR-SMX-	1
Senftenberg	3	AMP-CEP-STR-	1
Hadar	2	STR-TCY-	1
Heidelberg 19	1	Amp	2
Kentucky	1	STR-	1
Heidelberg	0	None	4
Heidelberg 18	0	None	2
Heidelberg 19	0	None	2
Kentucky	0	None	2
Heidelberg 11	0	None	1
Heidelberg 12	0	None	1
Heidelberg 26	0	None	1
Heidelberg 29	0	None	1
Heidelberg Atypical	0	None	1
I:4,5,12:i:- Untypable	0	None	1
Mbandaka	0	None	1
Orion var.15+34+	0	None	1
Typhimurium 108	0	None	1
Turkey			
Passive Surveillance			
<i>Salmonella</i> n=36			
Bredeney	10	AKSSUT-A3C-GEN-	3
Montevideo	6	AMP-CEP-GEN-KAN-STR-TCY-	2
Heidelberg 29	6	A3C-AMP-TCY-	1
Senftenberg	5	AMP-CEP-GEN-KAN-STR-	2
Agona	5	A3C-AMP-	1
Litchfield	5	A3C-AMP-	1
Montevideo	5	AMP-CEP-KAN-STR-TCY-	1
Montevideo	5	GEN-KAN-STR-SMX-TCY-	1
Saintpaul	5	AMP-CEP-KAN-SMX-TCY-	1
Bredeney	4	GEN-KAN-STR-SMX-	1
Senftenberg	4	AMP-CEP-GEN-STR-	1
Senftenberg	4	AMP-CEP-KAN-STR-	1
Senftenberg	3	AMP-CEP-GEN-	2
Heidelberg 47	3	STR-SMX-TCY-	1
Johannesburg	3	GEN-STR-SMX-	1
Senftenberg	3	AMP-CEP-STR-	1
Hadar	2	STR-TCY-	1
Senftenberg	2	GEN-STR-	1
Senftenberg	1	GEN-	4
Heidelberg 32	1	TCY-	2
Heidelberg 39	1	TCY-	1
I:4,12:i:-	1	TCY-	1
Heidelberg 47	0	None	2
Newport	0	None	1
Saintpaul	0	None	1

Serovar and Phagetype	Number of Antimicrobials in Resistance Pattern		Number of Isolates
		Pattern	
Senftenberg	0	None	1
Human			
Enhanced Passive Surveillance			
<i>Salmonella</i> n=3056			
4,5,12:i:- 191	11	ACSSuT+A3C+GenSxt	1
Typhimurium 95	11	ACSSuT+A3C+GenSxt	1
Newport 14a	10	ACKSSuT+A3C+	4
Agona AG05	10	ACKSSuT+A3C+	1
Heidelberg 54	10	ACSSuT+A3C+Cro	1
Newport 14b	10	ACKSSuT+A3C+	1
Typhimurium193	10	ACSSuT+A3C+Sxt	1
Typhimurium 208 var.	10	ACKSSuT+A3C+	1
Heidelberg 54	9	ACSSuT+A3C+	10
Newport 14b	9	ACSSuT+A3C+	7
Newport 17b	9	ACSSuT+A3C+	2
Heidelberg 29	9	ACSSuT+A3C+	1
Heidelberg AT03-4601	9	ACSSuT+A3C+	1
Newport (untypable)	9	ACSSuT+A3C+	1
Rough-0:-:-	9	ACSSuT+A3C+	1
Rough-O:e,h:1,2	9	ACSSuT+A3C+	1
Typhimurium 193	9	ACSSuT+CipGenNalSxt	1
Typhimurium U284 var.	9	ACSSuT+A3C+	1
Heidelberg 32	8	A3C+AmpGenStrTcy	7
Typhimurium UT 1	8	ACKSSuT+CepSxt	4
Typhimurium U302	8	ACKSSuT+CepSxt	2
4,5,12:b:- Batterssea	8	ACSSuT+GenNalSxt	1
Hadar 5	8	ACKSSuT+CepNal	1
Heidelberg 19	8	AmcAmpTioCepChlStrSmxSxt	1
Heidelberg 11	8	AmcAmpCepKanNalSmxTcySxt	1
Heidelberg 29	8	AKSSuT+AmcTioCep	1
Heidelberg 54	8	ACSSuT+AmcTioCep	1
Heidelberg 29	8	A3C+AmpKanSmxTcy	1
Newport 17a	8	A3C+AmpStrSmxTcy	1
Paratyphi A	8	ACSSuT+AmcCepSxt	1
Paratyphi B var. Jav AT01-3368	8	A3C+AmpChlSmxTcy	1
Typhimurium 812	8	ACSSuT+AmcTioCep	1
Typhimurium 120	8	ACKSSuT+NalSxt	1
Typhimurium AT03-3596	8	A3C+AmpChlStrTcy	1
Heidelberg 32	7	A3C+AmpStrTcy	4
Typhi E 1	7	ACSSuT+NalSxt	4
Typhi (Untypable)	7	ACSSuT+NalSxt	3
Typhimurium 104a	7	ACKSSuT+Sxt	3
Albany	7	AmpChlKanNalSmxTcySxt	1
Heidelberg 19	7	AmpCepGenStrSmxTcySxt	1
Heidelberg 19	7	AmcAmpTioCepChlStrSmx	1
Infantis 8	7	ACSSuT+NalSxt	1
Newport 9	7	AmpChlGenKanNalSmxTcy	1
Paratyphi A	7	ACSSuT+AmcSxt	1
Typhimurium 12	7	AmpChlCipGenNalSmxSxt	1
Typhimurium 104 b	7	ACKSSuT+Sxt	1
Typhimurium 203	7	ACKSSuT+Gen	1
Virchow	7	AmpGenNalStrSmxTcySxt	1
Typhimurium 104	6	ACKSSuT+	22
Heidelberg 32	6	A3C+AmpTcy	6
Typhimurium U302	6	ACKSSuT+	6
Typhimurium 104	6	ACSSuT+Nal	3
Typhimurium 104	6	ACSSuT+Amc	3
Typhimurium U302	6	ACSSuT+Amc	3
Typhimurium 104a	6	ACKSSuT+	3
Heidelberg 29	6	A3C+AmpCro	2
Typhimurium 208 var.	6	AKSSuT+Sxt	2
Agona	6	AmpKanNalSmxTcySxt	1
Albany	6	AmpChlNalSmxTcySxt	1

Serovar and Phagetype	Number of Antimicrobials in Resistance Pattern	Pattern	Number of Isolates
Enteritidis 8	6	A3C+AmpTcy	1
Give	6	AKSSuT+Sxt	1
Hadar 18	6	ChIKanStrSmxTcySxt	1
Heidelberg 19	6	AmpCepGenStrSmxTcy	1
Heidelberg 32	6	A3C+AmpStr	1
Newport 9	6	AmpChlKanNalSmxTcy	1
Newport 14c	6	ACSSuT+Cep	1
Paratyphi A	6	ACSSuT+Sxt	1
Paratyphi B var. Jav AT03-5606	6	ACSSuT+Amc	1
Rissen	6	AmpChlKanSmxTcySxt	1
Rubislaw	6	AmpChlNalSmxTcySxt	1
Saintpaul	6	AKSSuT+Sxt	1
Stanley	6	KanNalStrSmxTcySxt	1
Stanley	6	ACSSuT+Sxt	1
Thompson 3	6	ACKSSuT+	1
Typhi E 1	6	ACSSuT+Sxt	1
Typhi E 9	6	ACSSuT+Sxt	1
Typhimurium 104a	6	AKSSuT+Sxt	1
Typhimurium 104	6	ACSSuT+Sxt	1
Typhimurium U276	6	ACSSuT+Cep	1
Typhimurium 1	6	ACKSSuT+	1
Typhimurium 104b	6	ACKSSuT+	1
Typhimurium (Untypable)	6	ACKSSuT+	1
Typhimurium UT 1	6	ACKSSuT+	1
Uganda	6	AmpChlGenSmxTcySxt	1
Typhimurium 104	5	ACSSuT+	101
Heidelberg 29	5	A3C+Amp	44
Heidelberg 4	5	A3C+Amp	24
Typhimurium 104 b	5	ACSSuT+	15
Heidelberg 41	5	A3C+Amp	14
Typhimurium 208 var. Berta BT02	5	AKSSuT+	9
Paratyphi B var. Jav AT01-5083	5	ACSSuT+	7
Heidelberg 53	5	A3C+Amp	5
Blockley	5	ChIKanNalStrTcy	4
Heidelberg 32	5	A3C+Amp	3
Typhimurium U302	5	ACSSuT+	3
Albany	5	AmpChlSmxTcySxt	2
Berta	5	A3C+Amp	2
Heidelberg 19	5	AmpGenStrSmxTcy	2
Newport 9	5	AmpKanSmxTcySxt	2
Paratyphi B var. Jav AT02-6707	5	ACSSuT+	2
Typhi M1	5	AmpChlStrSmxSxt	2
Typhimurium U276	5	AmpKanStrSmxSxt	2
Typhimurium UT2	5	AKSSuT+	2
Typhimurium104a	5	ACSSuT+	2
Typhimurium 104c	5	ACSSuT+	2
4,5,12:i:- 104	5	ACSSuT+	1
4,5,12:i:- AT02-7784	5	A3C+Amp	1
Agona	5	AmpCepStrSmxTcy	1
Albany	5	AmpChlNalTcySxt	1
Anatum	5	AmpNalSmxTcySxt	1
Enteritidis 13a	5	ChIKanNalStrTcy	1
Enteritidis 8	5	AmpTioKanSmxTcy	1
Hadar 5	5	AmpGenStrSmxTcy	1
Hadar 56	5	AmpGenStrSmxTcy	1
Hadar 58	5	AmpGenStrSmxTcy	1
Heidelberg 21	5	ChlStrSmxTcySxt	1
Heidelberg 11	5	AmpTioCepSmxTcy	1
Heidelberg 19	5	AmpCepSmxTcySxt	1
Heidelberg 19	5	AmpCepGenStrSmx	1
Heidelberg 19	5	AmcAmpGenStrSmx	1
Heidelberg 19	5	A3C+Amp	1

Serovar and Phagetype	Number of Antimicrobials in Resistance Pattern	Pattern	Number of Isolates
Heidelberg 24	5	A3C+Amp	1
Heidelberg 26	5	A3C+Amp	1
Heidelberg 52	5	A3C+Amp	1
Heidelberg AT03-2392	5	A3C+Amp	1
Heidelberg AT03-4777	5	A3C+Amp	1
Heidelberg (Untypable)	5	A3C+Amp	1
Hvittingfoss	5	AmpKanSmxTcySxt	1
Infantis 4	5	KanNalSmxTcySxt	1
Infantis 8	5	A3C+Amp	1
Newport 6	5	A3C+Amp	1
Oranienburg 13	5	AmpTioCepSmxTcy	1
Paratyphi B var. Jav AT01-0277	5	ACSSuT+	1
Saintpaul	5	AmpCepSmxTcySxt	1
Stanley	5	AmpStrSmxTcySxt	1
Stanley	5	AmpChlSmxTcySxt	1
Thompson 3	5	A3C+Amp	1
Thompson AT00-2823	5	A3C+Amp	1
Typhi E 1	5	AmpChlStrSmxSxt	1
Typhi E 1	5	A3C+Amp	1
Typhimurium 104a	5	AmpKanSmxTcySxt	1
Typhimurium124 var.	5	AmpKanSmxTcySxt	1
Typhimurium 193	5	AmpKanSmxTcySxt	1
Typhimurium 208 var.	5	AmpKanSmxTcySxt	1
Typhimurium 193	5	AmpCepStrSmxSxt	1
Typhimurium U284 var.	5	AmpCepSmxTcySxt	1
Typhimurium 46	5	AmcAmpCepSmxSxt	1
Typhimurium 110b	5	AKSSuT+	1
Typhimurium 12	5	AKSSuT+	1
Typhimurium 193	5	AKSSuT+	1
Typhimurium 208	5	AKSSuT+	1
Typhimurium 22	5	AKSSuT+	1
Typhimurium U302	5	AKSSuT+	1
Typhimurium UT 7	5	AKSSuT+	1
Typhimurium 41	5	ACSSuT+	1
Typhimurium 146	5	A3C+Amp	1
Typhimurium 193	5	A3C+Amp	1
Typhimurium 195	5	A3C+Amp	1
Typhimurium 41	5	A3C+Amp	1
Virchow	5	GenNalSmxTcySxt	1
Virchow	5	AmpGenNalSmxSxt	1
Typhimurium 208 var.	4	AmpKanSmxTcy	13
Typhimurium UT 2	4	AmpKanSmxTcy	5
Typhimurium 104	4	AmpStrSmxTcy	3
Virchow	4	NalSmxTcySxt	3
Blockley	4	KanNalStrTcy	2
Blockley	4	ChlKanNalTcy	2
Hadar 5	4	GenStrSmxTcy	2
Heidelberg 19	4	AmpCepSmxTcy	2
Typhimurium 208	4	AmpKanSmxTcy	2
Typhimurium 2	4	AmpCepSmxSxt	2
Typhimurium 46	4	AmpCepSmxSxt	2
4,5,12:b:- (Untypable)	4	AmpStrSmxSxt	1
Agona	4	NalStrSmxTcy	1
Agona	4	KanSmxTcySxt	1
Brandenburg	4	AmpStrSmxTcy	1
Derby	4	AmpNalSmxTcy	1
Emek	4	NalSmxTcySxt	1
Enteritidis 8	4	AmpGenSmxSxt	1
Enteritidis AT03-6661	4	AmpChlStrSmx	1
Enteritidis 29	4	AmcAmpCepStr	1
Hadar AT00-5465	4	NalSmxTcySxt	1
Hadar 5	4	AmpCepStrTcy	1
Heidelberg 19	4	GenStrSmxTcy	1
Heidelberg 35	4	GenStrSmxTcy	1
Heidelberg 6	4	GenStrSmxTcy	1

Serovar and Phagetype	Number of Antimicrobials in Resistance Pattern	Pattern	Number of Isolates
Heidelberg 32	4	AmpNalStrTcy	1
Heidelberg 10	4	AmpGenStrSmx	1
Heidelberg 29	4	AmpGenStrSmx	1
Heidelberg 19	4	AmpChlSmxTcy	1
Heidelberg 5	4	AmpCepGenKan	1
Heidelberg 52	4	AmcAmpTioCep	1
Hvittingfoss	4	AmpChlSmxTcy	1
Mbandaka	4	ChlStrSmxTcy	1
Putten	4	AmcAmpTioCep	1
ssp IV 50:g,z51:-	4	KanNalStrTcy	1
Typhimurium 193	4	NalSmxTcySxt	1
Typhimurium 108	4	KanStrSmxTcy	1
Typhimurium 12	4	KanStrSmxTcy	1
Typhimurium 193	4	KanStrSmxTcy	1
Typhimurium 208 var.	4	KanStrSmxTcy	1
Typhimurium 195	4	ChlStrSmxTcy	1
Typhimurium 1	4	AmpStrSmxSxt	1
Typhimurium 193	4	AmpSmxTcySxt	1
Typhimurium 21	4	AmpKanStrSmx	1
Typhimurium U276	4	AmpKanSmxTcy	1
Typhimurium 104	4	AmpChlStrTcy	1
Typhimurium 104	4	AmpChlSmxTcy	1
Typhimurium 135	4	AmpCepSmxSxt	1
Typhimurium U284 var.	4	AmpCepKanTcy	1
Heidelberg 29	3	KanStrTcy	13
Derby	3	StrSmxTcy	4
Schwarzengrund	3	StrSmxTcy	3
Uganda	3	StrSmxTcy	3
Agona	3	GenStrSmx	2
Stanley	3	SmxTcySxt	2
Typhimurium 104	3	KanStrSmx	2
4,5,12:i:- U291	3	GenStrSmx	1
Anatum	3	AmcAmpCep	1
Berta BT03	3	AmpTcySxt	1
Brandenburg	3	GenStrSmx	1
Bredeney	3	SmxTcySxt	1
Corvallis	3	StrSmxTcy	1
Derby	3	SmxTcySxt	1
Enteritidis 29	3	SmxTcySxt	1
Enteritidis 35	3	SmxTcySxt	1
Enteritidis 4	3	KanNalSxt	1
Enteritidis 45	3	AmpSmxSxt	1
Enteritidis 8	3	AmpKanSmx	1
Hadar 5	3	AmpStrTcy	1
Hadar 5	3	AmpCepTcy	1
Heidelberg 19	3	StrSmxTcy	1
Heidelberg 6	3	KanStrTcy	1
Heidelberg 41	3	GenStrSmx	1
Heidelberg 19	3	GenSmxTcy	1
Heidelberg 6	3	GenSmxTcy	1
Heidelberg 8	3	GenSmxTcy	1
Heidelberg 19a	3	AmpTioSxt	1
Heidelberg 19	3	AmpStrTcy	1
Heidelberg 19	3	AmpCepStr	1
Heidelberg 19	3	AmcAmpCep	1
Infantis 13	3	NalSmxTcy	1
Infantis 26	3	KanNalTcy	1
Istanbul	3	NalStrTcy	1
Mbandaka	3	StrSmxTcy	1
Mbandaka	3	SmxTcySxt	1
Muenchen	3	StrSmxTcy	1
Muenchen	3	SmxTcySxt	1
Muenchen	3	NalStrSmx	1
Ohio	3	AmpKanTcy	1
Rissen	3	AmpStrTcy	1
Schwarzengrund	3	KanStrTcy	1

Serovar and Phagetype	Number of Antimicrobials in Resistance Pattern	Pattern	Number of Isolates
Stanley	3	StrSmxTcy	1
Stanley	3	StrSmxTcy	1
Stanley	3	GenStrSmx	1
Typhi (Untypable)	3	ChlNalTcy	1
Typhimurium 104	3	StrSmxTcy	1
Typhimurium 12a	3	StrSmxTcy	1
Typhimurium 193	3	StrSmxTcy	1
Typhimurium 124 var.	3	SmxTcySxt	1
Typhimurium 135	3	GenStrSmx	1
Typhimurium 208	3	GenSmxSxt	1
Typhimurium 40	3	ChlKanSmx	1
Typhimurium 108	3	AmpKanTcy	1
Typhimurium 99	3	AmpKanSmx	1
Virchow	3	NalSmxSxt	1
Worthington	3	ChlSmxSxt	1
Hadar 2	2	StrTcy	21
Hadar 5	2	StrTcy	11
Agona	2	SmxTcy	10
Heidelberg 19	2	AmpCep	6
Hadar 11	2	StrTcy	5
Hadar 21	2	StrTcy	4
Enteritidis 29	2	NalTcy	3
Hadar 26	2	StrTcy	3
Hadar 47	2	StrTcy	3
Heidelberg 44	2	KanTcy	3
Heidelberg 19	2	GenSmx	3
Heidelberg 19	2	AmpStr	3
Typhimurium 110	2	KanTcy	3
Enteritidis 24	2	NalTcy	2
Hadar 55	2	StrTcy	2
Hadar 47	2	AmpTcy	2
Heidelberg 45	2	StrTcy	2
Heidelberg 8	2	StrTcy	2
Heidelberg 6	2	StrSmx	2
Heidelberg 35	2	AmpCep	2
Typhimurium 104	2	KanTcy	2
6,8:-:enx	2	StrTcy	1
Agona	2	StrTcy	1
Agona AG07	2	SmxTcy	1
Agona AG07	2	GenTcy	1
Alachua	2	GenSmx	1
Bovismorbificans	2	AmpCep	1
Braenderup	2	SmxTcy	1
Brandenburg	2	StrTcy	1
Derby	2	SmxTcy	1
Enteritidis 4b	2	StrSmx	1
Enteritidis 2	2	KanTcy	1
Enteritidis 29	2	AmpStr	1
Gatuni	2	SmxTcy	1
Hadar 4	2	StrTcy	1
Hadar 51	2	StrTcy	1
Hadar 58	2	StrTcy	1
Hadar 11	2	NalTcy	1
Hadar 56	2	NalTcy	1
Hadar 18	2	AmpTcy	1
Hadar 56	2	AmpTcy	1
Hadar 9	2	AmpTcy	1
Hadar (Untypable)	2	AmpTcy	1
Heidelberg 29	2	StrTcy	1
Heidelberg 19	2	SmxTcy	1
Heidelberg 29	2	AmpStr	1
Heidelberg 44	2	AmpStr	1
Heidelberg 29	2	AmpSmx	1
Heidelberg 36	2	AmpCep	1
Heidelberg 19	2	AmcAmp	1
Heidelberg 6	2	AmcAmp	1

Serovar and Phagetype	Number of Antimicrobials in Resistance Pattern	Pattern	Number of Isolates
Istanbul	2	StrTcy	1
Muenchen	2	StrSmx	1
Muenchen	2	SmxTcy	1
Rissen	2	AmpTcy	1
Rubislaw	2	GenStr	1
Saintpaul	2	GenSmx	1
Stanley	2	KanNal	1
Thompson 5	2	GenSmx	1
Typhi A	2	NalTcy	1
Typhimurium AT03-4752	2	StrTcy	1
Typhimurium 104	2	StrSmx	1
Typhimurium 46	2	SmxTcy	1
Typhimurium 151	2	KanTcy	1
Typhimurium 206	2	KanTcy	1
Typhimurium AT03-6261	2	KanTcy	1
Typhimurium 1	2	GenSmx	1
Typhimurium 12	2	AmpTcy	1
Typhimurium 193	2	AmpTcy	1
Typhimurium 29	2	AmpTcy	1
Typhimurium U302	2	AmpTcy	1
Typhimurium 1	2	AmpStr	1
Virchow	2	NalSmx	1
Weltevreden	2	AmpTcy	1
Enteritidis 1	1	Nal	40
Heidelberg 19	1	Amp	35
Typhi E 1	1	Nal	26
Paratyphi A	1	Nal	19
Heidelberg 32	1	Tcy	14
Enteritidis 4	1	Nal	11
Hadar 2	1	Tcy	10
Typhimurium 208	1	Tcy	8
Agona	1	Tcy	6
Hadar 47	1	Tcy	6
Typhi E14	1	Nal	6
Hadar 5	1	Tcy	5
Anatum	1	Tcy	4
Typhi E 9	1	Nal	4
Typhimurium 193	1	Tcy	4
Enteritidis 14b	1	Nal	3
Hadar 11	1	Tcy	3
Heidelberg 26	1	Amp	3
Heidelberg 35	1	Amp	3
Typhi O	1	Nal	3
Virchow	1	Nal	3
Enteritidis 21	1	Nal	2
Heidelberg 22	1	Tcy	2
Heidelberg 39	1	Tcy	2
Heidelberg 11	1	Nal	2
Heidelberg 19	1	Nal	2
Newport 16	1	Nal	2
Typhi B1	1	Nal	2
Typhi (Untypable)	1	Nal	2
Typhi UVS-(I+IV)	1	Nal	2
4,12:r:-	1	Tcy	1
4,5,12:i:- 191	1	Amp	1
Agona	1	Smx	1
Agona	1	Nal	1
Anatum	1	Sxt	1
Braenderup	1	Tcy	1
Braenderup	1	Str	1
Braenderup	1	Nal	1
Brandenburg	1	Nal	1
Derby	1	Str	1
Enteritidis 2	1	Nal	1
Enteritidis 4b	1	Nal	1
Enteritidis AT03-7910	1	Nal	1

Serovar and Phagetype	Number of Antimicrobials in Resistance Pattern	Pattern	Number of Isolates
Haardt	1	Amp	1
Hadar 26	1	Tcy	1
Heidelberg 42	1	Tcy	1
Heidelberg 47	1	Tcy	1
Heidelberg 19	1	Str	1
Heidelberg 42	1	Str	1
Heidelberg 18	1	Nal	1
Heidelberg 21	1	Amp	1
Heidelberg 5	1	Amp	1
Heidelberg 54	1	Amp	1
Heidelberg 6	1	Amp	1
Infantis 1	1	Tcy	1
Istanbul	1	Tcy	1
Kentucky	1	Tcy	1
Kentucky	1	Nal	1
Litchfield	1	Str	1
Litchfield	1	Smx	1
London	1	Tcy	1
Miami	1	Amp	1
Montevideo	1	Nal	1
Muenchen	1	Sxt	1
Muenchen	1	Amp	1
Newport 9	1	Tcy	1
Newport 14	1	Nal	1
Newport 9	1	Nal	1
Oranienburg 6	1	Tcy	1
Saintpaul	1	Tcy	1
Schwarzengrund	1	Tcy	1
Schwarzengrund	1	Nal	1
Typhi E 1	1	Str	1
Typhi A	1	Nal	1
Typhi D 1	1	Nal	1
Typhimurium 108	1	Tcy	1
Typhimurium 12	1	Tcy	1
Typhimurium 4	1	Tcy	1
Typhimurium U302	1	Tcy	1
Typhimurium 193	1	Str	1
Typhimurium 107	1	Kan	1
Typhimurium 108	1	Amp	1
Typhimurium 124 var.	1	Amp	1
Typhimurium 146	1	Amp	1
Worthington	1	Tcy	1
Heidelberg 19	0	None	140
Enteritidis 4	0	None	89
Saintpaul	0	None	56
Heidelberg 26	0	None	51
Enteritidis 8	0	None	45
Oranienburg 2 / 8	0	None	43
Heidelberg 11	0	None	40
Agona	0	None	39
Enteritidis 13	0	None	37
Braenderup	0	None	36
Javiana	0	None	35
Heidelberg 35	0	None	31
Muenchen	0	None	31
Thompson 3	0	None	29
Typhimurium 170	0	None	26
Newport 16	0	None	22
Newport 9	0	None	22
Typhimurium 124 var.	0	None	22
Typhimurium 46	0	None	22
Typhimurium 107	0	None	20
Mbandaka	0	None	19
Newport 3	0	None	19
Thompson 26	0	None	19
Schwarzengrund	0	None	18

Serovar and Phagetype	Number of Antimicrobials in Resistance Pattern		Number of Isolates
		Pattern	
Typhi E 1	0	None	17
Typhimurium 164	0	None	17
Heidelberg 41	0	None	16
Typhimurium 2	0	None	16
Anatum	0	None	15
Infantis 7	0	None	15
Newport 15	0	None	15
Stanley	0	None	15
Montevideo	0	None	14
Newport 13	0	None	14
Newport 2	0	None	14
4,5,12:i- 191	0	None	13
Newport 4	0	None	13
Typhimurium 10	0	None	13
Typhimurium U276	0	None	13
Thompson 5	0	None	12
Typhimurium 108	0	None	12
Uganda	0	None	12
Virchow	0	None	12
Hartford	0	None	11
Minnesota 1	0	None	11
Thompson 1	0	None	11
Enteritidis 13a	0	None	10
Infantis 4	0	None	10
Typhimurium 1	0	None	10
Enteritidis 2	0	None	9
Infantis 8	0	None	9
Litchfield	0	None	9
Newport 10	0	None	9
Typhimurium 160	0	None	9
Typhimurium 49	0	None	9
Enteritidis 11b	0	None	8
Enteritidis 21	0	None	8
Havana	0	None	8
Rubislaw	0	None	8
Typhimurium 135	0	None	8
Brandenburg	0	None	7
Enteritidis (Untypable)	0	None	7
Paratyphi B var. Jav Worksop	0	None	7
Senftenberg	0	None	7
Typhi A	0	None	7
4,5,12:b:- 3b var.2	0	None	6
4,5,12:i- U291	0	None	6
Bareilly	0	None	6
Enteritidis 14b	0	None	6
Enteritidis 4a	0	None	6
Enteritidis 6	0	None	6
Heidelberg 2	0	None	6
Heidelberg 47	0	None	6
Indiana	0	None	6
Mississippi	0	None	6
Newport 14	0	None	6
Oranienburg 2	0	None	6
Oranienburg 6	0	None	6
Sandiego	0	None	6
Typhimurium 69	0	None	6
4,5,12:b:- (Untypable)	0	None	5
Albany	0	None	5
Berta	0	None	5
Enteritidis 1	0	None	5
Enteritidis 911	0	None	5
Infantis 26	0	None	5
Paratyphi B var. Jav AT01-0277	0	None	5
Thompson 25	0	None	5
Typhimurium 104	0	None	5

Serovar and Phagetype	Number of Antimicrobials in Resistance Pattern	Pattern	Number of Isolates
Typhimurium146a var.	0	None	5
Typhimurium 195	0	None	5
Typhimurium 41	0	None	5
Typhimurium U285	0	None	5
Weltevreden	0	None	5
Agona AG07	0	None	4
Agona AG11	0	None	4
Cerro	0	None	4
Enteritidis 34	0	None	4
Heidelberg 6	0	None	4
Heidelberg 7	0	None	4
Infantis 3	0	None	4
Manhattan	0	None	4
Miami	0	None	4
Monschau	0	None	4
Oranienburg 1	0	None	4
Oranienburg 15	0	None	4
Paratyphi A	0	None	4
Typhimurium 12	0	None	4
Typhimurium 208	0	None	4
Typhimurium U284 var.	0	None	4
4,5,12:b:- Dundee var.	0	None	3
Agona AG10	0	None	3
Berta BT01	0	None	3
Bovismorbificans	0	None	3
Bredeney	0	None	3
Derby	0	None	3
Enteritidis 5b	0	None	3
Enteritidis 6a	0	None	3
Glostrup	0	None	3
Hadar 2	0	None	3
Heidelberg 10	0	None	3
Heidelberg 36	0	None	3
Heidelberg 5	0	None	3
Infantis 13	0	None	3
Infantis 9	0	None	3
Kentucky	0	None	3
Kiambu	0	None	3
London	0	None	3
Newport 1	0	None	3
Newport 6	0	None	3
Panama A	0	None	3
Pomona	0	None	3
Richmond	0	None	3
ssp IIIb 61:k:1,5,7	0	None	3
ssp IV 44:z4,z23:-	0	None	3
Tennessee	0	None	3
Thompson 2	0	None	3
Typhi B1	0	None	3
Typhi B2	0	None	3
Typhi D1	0	None	3
Typhi DVS	0	None	3
Typhi E9	0	None	3
Typhi O	0	None	3
Typhi (Untypable)	0	None	3
Typhimurium 193	0	None	3
Typhimurium AT00-1337	0	None	3
4,12:i:- 121	0	None	2
4,5,12:b:- 1 var. 5	0	None	2
4,5,12:b:- Battersea	0	None	2
4,5,12:b:- Worksop	0	None	2
4,5,12:i:- 195	0	None	2
4,5,12:i:- AT02-7784	0	None	2
4,5,12:i:- UT 7	0	None	2
Abaetetuba	0	None	2
Adelaide	0	None	2

Serovar and Phagetype	Number of Antimicrobials in Resistance Pattern	Pattern	Number of Isolates
Agona AG08	0	None	2
Amsterdam	0	None	2
Bardo	0	None	2
Blockley	0	None	2
Chester	0	None	2
Dublin	0	None	2
Enteritidis 20	0	None	2
Enteritidis 3	0	None	2
Enteritidis 35	0	None	2
Enteritidis AT01-1099	0	None	2
Enteritidis AT99-1381	0	None	2
Gaminara	0	None	2
Group B	0	None	2
Hadar 47	0	None	2
Haifa	0	None	2
Heidelberg 16	0	None	2
Heidelberg 18	0	None	2
Heidelberg 29	0	None	2
Heidelberg 40	0	None	2
Hvittingfoss	0	None	2
Infantis 1	0	None	2
Infantis 10	0	None	2
Infantis 6	0	None	2
Kingabwa	0	None	2
Livingstone	0	None	2
Muenster	0	None	2
Newport AT03-2574	0	None	2
Newport AT03-4962	0	None	2
Ohio	0	None	2
Oslo	0	None	2
Paratyphi B var. Jav 3b var. 3	0	None	2
Paratyphi B var. Jav Dundee	0	None	2
Poona	0	None	2
ssp IV 50:g,z51:-	0	None	2
ssp IV 61:k:1,5,7	0	None	2
Typhi 38	0	None	2
Typhi J1	0	None	2
Typhi M1	0	None	2
Typhi UVS-(I+IV)	0	None	2
Typhimurium 110b	0	None	2
Typhimurium 127	0	None	2
Typhimurium 40	0	None	2
Typhimurium 51	0	None	2
Typhimurium 82	0	None	2
Typhimurium 94	0	None	2
Typhimurium AT97-6274	0	None	2
Typhimurium AT99-0756	0	None	2
Typhimurium U292	0	None	2
Urbana	0	None	2
Worthington	0	None	2
4,12:-:e,n,x	0	None	1
4,12:b:- 3b var.2	0	None	1
4,12:i:- 146	0	None	1
4,12:i:- AT00-0483	0	None	1
4,12:i:- U291 var.	0	None	1
4,5,12:-: 104	0	None	1
4,5,12:-: AT03-4854	0	None	1
4,5,12:-:1,2 1	0	None	1
4,5,12:b:- AT01-3368	0	None	1
4,5,12:b:- AT02-1303	0	None	1
4,5,12:b:- AT02-7187	0	None	1
4,5,12:b:- AT03-4799	0	None	1
4,5,12:b:- Dundee	0	None	1
4,5,12:d:-	0	None	1
4,5,12:i:- 107	0	None	1
4,5,12:i:- 193	0	None	1

Serovar and Phagetype	Number of Antimicrobials in Resistance Pattern	Pattern	Number of Isolates
4,5,12:i:- 206	0	None	1
4,5,12:i:- 208 var.	0	None	1
4,5,12:i:- AT02-0371	0	None	1
4,5,12:i:- (AT03-3330)	0	None	1
4,5,12:i:- U284 var.	0	None	1
Aberdeen	0	None	1
Agona AG03	0	None	1
Agona AG09	0	None	1
Agona AG12	0	None	1
Alachua	0	None	1
Anatum var. 15+	0	None	1
Apapa	0	None	1
Arechavaleta	0	None	1
Baildon	0	None	1
Brazzaville	0	None	1
Carmel	0	None	1
Cochin	0	None	1
Coeln	0	None	1
Colindale	0	None	1
Concord	0	None	1
Corvallis	0	None	1
Daytona	0	None	1
Durban	0	None	1
Ealing	0	None	1
Enteritidis 11	0	None	1
Enteritidis 30	0	None	1
Enteritidis 33	0	None	1
Enteritidis 4b	0	None	1
Enteritidis 5	0	None	1
Enteritidis 9c	0	None	1
Enteritidis Atoo-3335	0	None	1
Enteritidis AT01-8038	0	None	1
Enteritidis AT03-0406	0	None	1
Enteritidis AT03-0484	0	None	1
Enteritidis AT03-2161	0	None	1
Enteritidis AT03-6638	0	None	1
Enteritidis AT03-7176	0	None	1
Fluntern	0	None	1
Friedenau	0	None	1
Gatuni	0	None	1
Give	0	None	1
Goverdhan	0	None	1
Haardt	0	None	1
Heidelberg 1	0	None	1
Heidelberg 12	0	None	1
Heidelberg 13	0	None	1
Heidelberg 17	0	None	1
Heidelberg 19a	0	None	1
Heidelberg 20	0	None	1
Heidelberg 32	0	None	1
Heidelberg 39	0	None	1
Heidelberg 53	0	None	1
Heidelberg 54	0	None	1
Heidelberg AT01-0673	0	None	1
Heidelberg AT02-0642	0	None	1
Heidelberg AT03-0030	0	None	1
Heidelberg AT03-1891	0	None	1
Heidelberg AT03-5490	0	None	1
Heidelberg AT03-8004	0	None	1
Heidelberg (Untypable)	0	None	1
Infantis 11	0	None	1
Infantis 5	0	None	1
Inverness	0	None	1
Irenea	0	None	1
Irumu	0	None	1
Istanbul	0	None	1

Serovar and Phagetype	Number of Antimicrobials in Resistance Pattern		Number of Isolates
		Pattern	
Jamaica	0	None	1
Johannesburg	0	None	1
Krefeld	0	None	1
Lagos	0	None	1
Lexington	0	None	1
Meleagridis	0	None	1
Mikawasima	0	None	1
Mountpleasant	0	None	1
Nessziona	0	None	1
Newport 14c	0	None	1
Newport 17c	0	None	1
Newport AT03-2167	0	None	1
Newport AT03-7653	0	None	1
Oldenburg	0	None	1
OR:e,h:1,2	0	None	1
Oranienburg 13	0	None	1
Oranienburg 17	0	None	1
Oranienburg 7	0	None	1
Oranienburg AT03-5518	0	None	1
Oranienburg OR06	0	None	1
Panama D	0	None	1
Panama G	0	None	1
Panama (Untypable)	0	None	1
Paratyphi B Dundee var.	0	None	1
Paratyphi B var. Jav 1 var. 1	0	None	1
Paratyphi B var. Jav 1 var. 3	0	None	1
Paratyphi B var. Jav 3b var. 2	0	None	1
Paratyphi B var. Jav AT03-4093	0	None	1
Paratyphi B var. Jav Battersea	0	None	1
Paratyphi B var. Jav (Untypable)	0	None	1
Potsdam	0	None	1
Praha	0	None	1
Romanby	0	None	1
Rough-O:-:-	0	None	1
Rough-O:g,m,s:-	0	None	1
ssp II 9,12:m,t:-	0	None	1
ssp IIIb 60:r:e,n,z1	0	None	1
ssp IV 16:z4,z32:-	0	None	1
ssp IV 48:g,z51:-	0	None	1
ssp IV 50:z4,z23:-	0	None	1
Stanleyville	0	None	1
Tallahassee	0	None	1
Telelkebir	0	None	1
Thompson 8	0	None	1
Thompson AT03-6250	0	None	1
Thompson AT03-6292	0	None	1
Typhi 36	0	None	1
Typhi 40	0	None	1
Typhi 46	0	None	1
Typhi 53	0	None	1
Typhi 54	0	None	1
Typhi C1	0	None	1
Typhi D2	0	None	1
Typhi E2	0	None	1
Typhi E14	0	None	1
Typhi F9	0	None	1
Typhi K1	0	None	1
Typhimurium 106	0	None	1
Typhimurium 106 var.	0	None	1
Typhimurium 136	0	None	1
Typhimurium 146	0	None	1
Typhimurium 146a	0	None	1
Typhimurium 191	0	None	1

Serovar and Phagetype	Number of Antimicrobials in Resistance Pattern	Pattern	Number of Isolates
Typhimurium 21	0	None	1
Typhimurium 22	0	None	1
Typhimurium 27	0	None	1
Typhimurium 36	0	None	1
Typhimurium 42	0	None	1
Typhimurium 5	0	None	1
Typhimurium 56	0	None	1
Typhimurium 66	0	None	1
Typhimurium 76	0	None	1
Typhimurium 99	0	None	1
Typhimurium AT00-0483	0	None	1
Typhimurium AT00-0677	0	None	1
Typhimurium AT01-7230	0	None	1
Typhimurium AT02-6998	0	None	1
Typhimurium AT02-7784	0	None	1
Typhimurium AT03-0074	0	None	1
Typhimurium AT03-1886	0	None	1
Typhimurium AT03-2886	0	None	1
Typhimurium AT03-3353	0	None	1
Typhimurium AT03-5334	0	None	1
Typhimurium AT03-6712	0	None	1
Typhimurium AT97-6058	0	None	1
Typhimurium U284	0	None	1
Typhimurium UT1	0	None	1
Typhimurium UT7	0	None	1
Westhampton	0	None	1