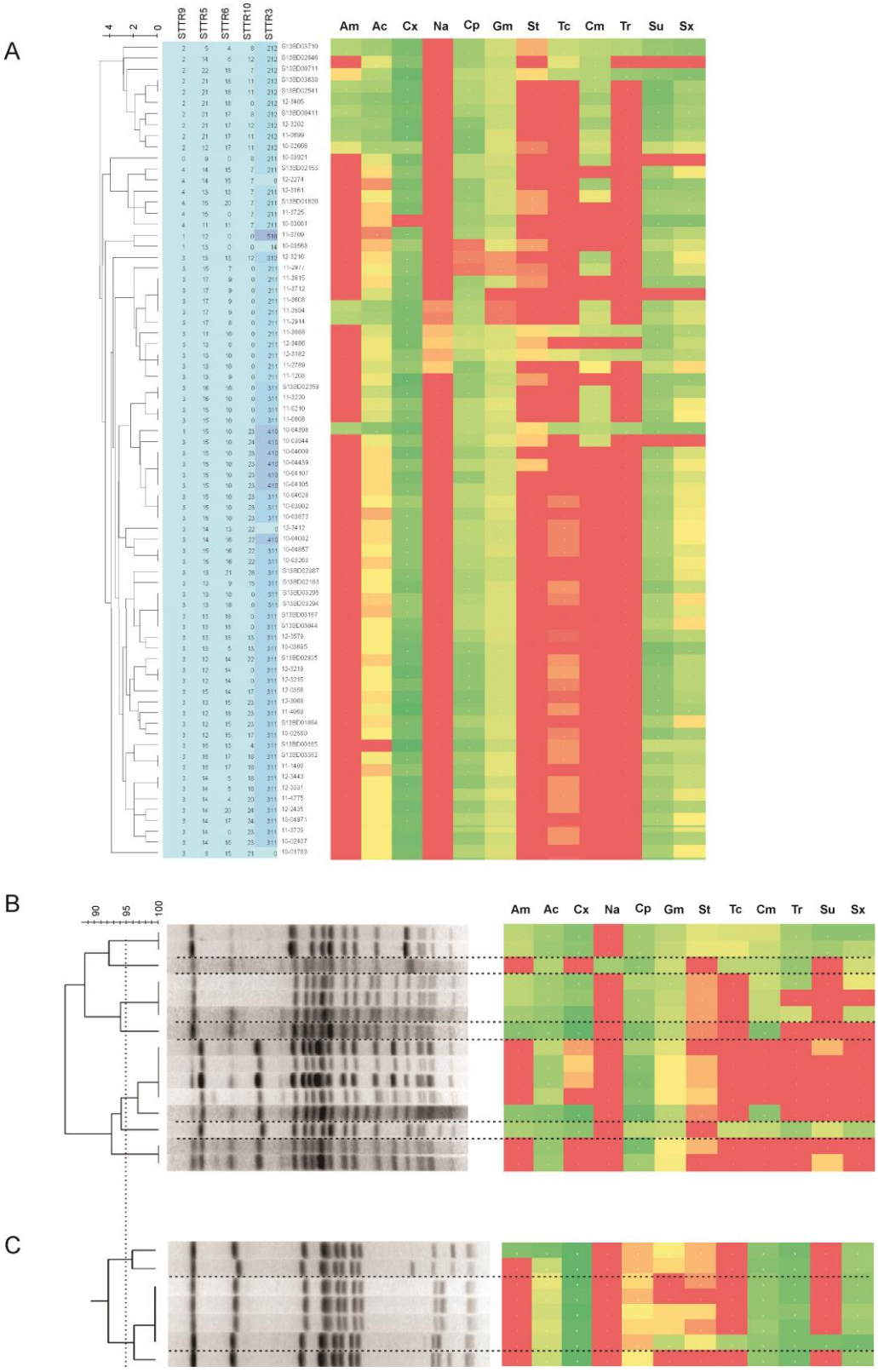

Figure S1. Clonal relatedness of multi-drug resistant *S. enterica* isolates. For three selected serotypes, resistance heat maps are compared to genotypic clustering by **(A)** 5-loci MLVA typing of *S. Typhimurium* isolates (STTRs 3-5-6-9-10), or PFGE-XbaI typing of **(B)** *S.* Infantis and **(C)** *S.* Kentucky isolates.

Table S1. Selection criteria for drug susceptibility screenings.

Serovar	Week				
	1-24	25-29	30-41	42-47	48-52
Enteritidis	5	10	20	10	5
Typhimurium	5	10	10	5	5
Hadar	All isolated strains				
Infantis	All isolated strains				
Virchow	All isolated strains				
Brandenburg	All isolated strains				
Derby	All isolated strains				
Typhi	All isolated strains				
Paratyphi	All isolated strains				
Dublin	All isolated strains				
Newport	All isolated strains				

Table S2. Breakpoints used in the interpretation of the antibiotic disk diffusion assays for all the *S. enterica* strains in this study (2009-2013).

Antibiotic	**Disk content (µg)**	**Resistant (mm)**	**Intermediate resistant (mm)**	**Sensitive (mm)**
Ampicillin	10	< 14		≥14
Amoxicillin + Clavulanic acid	20/10	< 19		≥19
Cefotaxime	30	< 17	17-19	≥ 20
Nalidixic acid	30	≤ 13	14-18	≥ 19
Ciprofloxacine	5	≤ 15	16-20	≥ 21
Tetracycline	30	≤ 11	12-14	≥ 15
Chloramphenicol	30	<17		≥ 17
Gentamicin	10	< 14	14-16	≥ 17
Trimethoprim	5	< 10	11-15	≥ 16
Sulfonamides	300	≤ 12	13-16	≥ 17
Trimethoprim/ sulphamethoxazole	1.25/23.75	< 13	13-15	≥ 16

Table S3. Absolute number of identified serotypes in human salmonellosis in Belgium, 2009-2013. The significance of variation of serotype prevalence during this period is calculated using the χ^2 score (four degrees of freedom); Significant varying serovars (after Bonferonni's correction) are indicated in green.

SEROTYPE		YEAR OF ISOLATION					X^2
		2009	2010	2011	2012	2013	
O:4(B)	TYPHIMURIUM	1392	1390	1473	1165	1341	3.89E-11
	TYPHIMURIUM VAR. O:5-	470	432	389	494	416	2.07E-06
	DERBY	42	25	31	34	46	7.26E-02
	BRANDENBURG	8	16	16	16	32	5.51E-03
	STANLEY	6	3	19	43	18	1.26E-12
	AGONA	8	23	9	21	17	3.43E-02
	PARATYPHI B VAR. L(+) TARTRATE+	69	41	14	8	16	1.38E-18
	SAINTPAUL	21	28	15	9	12	2.01E-02
	STANLEYVILLE	5	2	4	2	8	2.45E-01
	BREDENEY	6	4	1	11	6	3.40E-02
	PARATYPHI B	4	1	5	1	5	2.49E-01
	CHESTER	1	5	1	3	4	4.37E-01
	SCHWARZENGRUND	5	1	0	3	4	1.44E-01
	HEIDELBERG	5	6	2	8	4	3.73E-01
	COELN	1	2	1	4	3	5.31E-01
	SANDIEGO	1	4	5	3	3	5.96E-01
	INDIANA	5	5	7	0	3	1.21E-01
	READING	3	4	0	2	2	4.58E-01
	DUISBURG	0	2	0	0	2	2.55E-01
	ITURI	0	0	0	0	2	1.16E-01
	ABONY	1	1	0	1	2	7.74E-01
	ARECHAVALETA	0	0	0	0	1	4.47E-01
	TRACHAU	0	0	0	0	1	4.47E-01
	BRANCASTER	0	0	1	1	1	7.21E-01
	SHUBRA	0	0	0	0	1	4.47E-01
	BRADFORD	0	1	0	0	1	6.15E-01
	KINGSTON	2	0	2	0	1	3.64E-01
	KISANGANI	0	0	0	0	1	4.47E-01
	HAIFA	2	0	1	1	0	4.26E-01
	KALAMU	2	0	0	0	0	7.66E-02
	SHUBRA	1	0	0	0	0	3.77E-01
	BOCHUM	1	0	0	0	0	3.77E-01
	WIEN	1	2	1	0	0	5.18E-01
	TUDU	0	1	0	0	0	4.59E-01
	BANANA	0	0	1	0	0	3.73E-01
	BISPEBJERG	0	0	1	0	0	3.73E-01
	LIMETE	0	0	0	2	0	7.31E-02
	EPPENDORF	0	0	0	1	0	3.69E-01
	LOUBORNO	0	0	0	1	0	3.69E-01
	KIAMBU	0	0	0	1	0	3.69E-01
	SUBSPI						
	SUBSPI [I 4:i:-]	-	85	100	19	235	5.60E-57
	SUBSPI [I 4,5:b:-]	1	6	6	18	10	3.16E-04

	SUBSPI [I 4:-:1,2]	0	0	5	1	5	1.65E-02
	SUBSPI [I 4:-:-]	1	1	2	4	4	4.22E-01
	SUBSPI [I 4,5:-:1,2]	5	6	2	1	2	2.50E-01
	SUBSPI [I 4:d:-]	1	0	1	3	2	4.10E-01
	SUBSPI [I 4:b:-]	1	2	8	12	2	3.86E-04
	SUBSPI [I 4,5:-:-]	2	5	6	5	1	2.55E-01
	SUBSPI [I 4:i:-]	0	0	1	0	0	3.73E-01
	SUBSPI [I 4,5:e,h:-]	0	0	1	1	0	5.14E-01
	SUBSPI [I 4:r:-]	0	0	0	1	0	3.69E-01
	SUBSPI [I 4:-:1,6]	3	0	0	0	0	1.30E-02
	SUBSPII [II 4.5:b:-]						
	SUBSPII [II 4.5:b:-]	0	0	0	0	1	4.47E-01
O:9 (D1)	**ENTERITIDIS**	587	823	481	663	671	8.99E-12
	TYPHI	26	32	25	16	25	4.40E-01
	DUBLIN	8	12	16	14	23	1.16E-01
	PANAMA	4	8	10	19	10	9.70E-03
	NAPOLI	5	8	4	3	8	6.12E-01
	DURBAN	0	1	5	0	7	4.32E-03
	EASTBOURNE	2	0	3	1	2	4.73E-01
	SAARBRUECKEN	0	0	0	0	1	4.47E-01
	MIAMI	0	0	1	0	1	5.61E-01
	NDOLO	0	0	0	2	1	2.30E-01
	KAPEMBA	0	1	2	0	1	4.65E-01
	GOETTINGEN	0	0	0	0	1	4.47E-01
	JAMAICA	0	0	0	0	1	4.47E-01
	BERTA	5	4	0	0	1	2.74E-02
	WANGATA	1	0	0	0	0	3.77E-01
	JAVIANA	0	1	0	2	0	2.33E-01
	OS	0	1	0	0	0	4.59E-01
	LOME	0	0	0	1	0	3.69E-01
	GALLINARUM	0	0	0	1	0	3.69E-01
	SENDAI	0	1	0	0	0	4.59E-01
	ITAMI	0	1	1	0	0	5.68E-01
	SUBSPI						
	SUBSPI [I 9:-:1,5]	2	1	1	1	1	9.39E-01
	SUBSPI [I 9:-:-]	0	3	2	2	0	2.91E-01
	SUBSPI [I 9:l,v:-]	0	1	0	1	0	5.66E-01
	SUBSPI [I 9:-:e,n,x]	0	0	1	1	0	5.14E-01
	SUBSPI [I 9:a:-]	0	0	1	0	0	3.73E-01
	SUBSPI [I 9:eh:e,n,x]	0	0	1	0	0	3.73E-01
O:7 (C1)	**INFANTIS**	23	59	32	38	57	2.31E-03
	VIRCHOW	18	24	14	13	19	6.20E-01
	ORANIENBURG	7	11	17	5	19	2.08E-02
	MONTEVIDEO	8	5	13	8	17	7.44E-02
	TENNESSEE	7	20	12	4	12	2.78E-02
	LIVINGSTONE	18	31	12	32	11	5.61E-04

	BRAENDERUP	13	16	8	21	10	7.49E-02
	RISSEN	13	21	17	6	9	4.16E-02
	OHIO	51	4	3	1	9	4.14E-29
	THOMPSON	5	4	8	17	8	6.17E-03
	MBANDAKA	11	15	1	11	6	1.40E-02
	BAREILLY	1	3	2	4	5	5.58E-01
	MIKAWASIMA	0	1	0	2	4	1.15E-01
	ISANGI	1	1	0	0	2	5.30E-01
	SINGAPORE	0	0	0	0	1	4.47E-01
	MENSTON	0	0	0	1	1	5.59E-01
	POTSDAM	2	3	1	0	1	5.01E-01
	CONCORD	7	5	4	4	0	1.36E-01
	GALIERNA	3	0	0	0	0	1.30E-02
	KIVU	1	2	0	0	0	2.97E-01
	NIGERIA	1	0	0	0	0	3.77E-01
	LAROCHELLE	1	2	1	0	0	5.18E-01
	COLINDALE	0	3	1	0	0	1.02E-01
	HARTFORD	0	2	0	0	0	1.23E-01
	OSLO	0	0	1	0	0	3.73E-01
	ORITAMERIN	0	0	1	0	0	3.73E-01
	PAPUANA	0	0	1	0	0	3.73E-01
	OAKLAND	0	0	1	0	0	3.73E-01
	STRATHCONA	0	0	1	0	0	3.73E-01
	CHOLERAESUIS	0	0	1	1	0	5.14E-01
	RICHMOND	0	0	0	1	0	3.69E-01
	NGILI	0	0	0	1	0	3.69E-01
	GEORGIA	0	0	0	1	0	3.69E-01
	SUBSPI						
	SUBSPI [I 7:-:-]	0	3	1	2	4	3.64E-01
	SUBSPI [I 7:r:-]	2	3	12	3	2	1.10E-03
	SUBSPI [I 7:k:-]	0	1	0	0	0	4.59E-01
	SUBSPI [I 7:-:1,5]	0	1	1	4	2	1.88E-01
	SUBSPI [I 7:d:-]	0	0	1	0	0	3.73E-01
	SUBSPI [I 6,7:-:1,5]	1	0	0	0	1	5.64E-01
	SUBSPI [I6,7:-:l,w]	0	1	0	0	0	4.59E-01
	SUBSPI [I 6,7:l,v:-]	0	1	0	0	0	4.59E-01
	SUBSPI [I 6,7:k:-]	0	1	0	0	0	4.59E-01
	SUBSPI [I 6,7:e,h:-]	0	0	0	1	0	3.69E-01
	SUBSPI [I 6,7:z4,z23:-]	0	0	1	1	0	5.14E-01
	SUBSPII						
	SUBSPII [II 6,7:m,t:-]	0	0	0	0	1	4.47E-01
O:8 **(C2-C3)**	**KENTUCKY**	23	50	35	37	65	1.27E-03
	NEWPORT	25	24	26	16	18	3.60E-01
	BOVISMORBIFICANS	21	21	13	9	16	2.16E-01
	MUENCHEN	9	6	8	8	15	3.45E-01
	CORVALLIS	0	21	13	16	13	1.52E-03
	HADAR	12	13	7	15	12	5.62E-01

	LITCHFIELD	11	4	15	10	8	7.17E-02
	MANHATTAN	6	0	1	12	6	5.18E-04
	GOLDCOAST	3	3	6	5	6	7.03E-01
	KOTTBUS	4	1	9	4	5	8.71E-02
	ALBANY	3	3	1	1	4	6.38E-01
	BLOCKLEY	3	1	2	3	3	8.19E-01
	GLOSTRUP	1	0	1	0	2	5.05E-01
	BARDO	1	0	0	0	2	2.86E-01
	EMEK	1	0	0	0	1	5.64E-01
	HERSTON	0	0	0	0	1	4.47E-01
	TAKORADI	1	1	0	2	1	7.11E-01
	ABA	0	0	0	0	1	4.47E-01
	ALTONA	1	2	0	1	1	7.83E-01
	HEISTOPDENBERG	2	0	0	0	0	7.66E-02
	YOVOKOME	2	0	0	0	0	7.66E-02
	PRADA	1	0	0	0	0	3.77E-01
	SKANSEN	1	0	0	0	0	3.77E-01
	APEYEME	0	2	0	0	0	1.23E-01
	LEZENNES	0	2	0	0	0	1.23E-01
	REUBEUSS	0	1	0	0	0	4.59E-01
	GATUNI	0	1	0	0	0	4.59E-01
	LINDENBURG	0	1	0	0	0	4.59E-01
	BELFAST	0	1	0	0	0	4.59E-01
	BARDO	0	0	2	0	0	7.47E-02
	PAKISTAN	0	0	1	1	0	5.14E-01
	BRUNEI	0	0	1	0	0	3.73E-01
	FERRUCH	0	0	1	0	0	3.73E-01
	BONARIENSIS	0	0	1	0	0	3.73E-01
	MANCHESTER	0	0	0	1	0	3.69E-01
	EBOKO	0	0	0	2	0	7.31E-02
	SUBSPI						
	SUBSPI [I 6,8:-:-]	0	0	2	0	0	7.47E-02
	SUBSPI [I 6,8:z10:-]	0	0	0	1	0	3.69E-01
	SUBSPI [I 6,8:-:1,5]	1	1	0	2	3	4.82E-01
	SUBSPI [I 6,8:e,h:-]	0	0	1	1	0	5.14E-01
	SUBSPI [I 6,8,20:d:1,5]	1	0	0	0	0	3.77E-01
	SUBSPI [I 8,20:i:-]	0	0	1	1	0	5.14E-01
	SUBSPI [I 8,20:-:]	0	2	1	1	0	5.16E-01
	SUBSPI [I 6,8:d:-]	1	1	1	0	0	7.30E-01
	SUBSPII						
	SUBSPII [I II 6,8:a:-]	0	0	0	1	0	3.69E-01
O:13 (G)	**POONA**	3	20	19	10	13	8.26E-03
	TELELKEBIR	2	1	4	4	3	5.77E-01
	IDIKAN	0	0	0	2	0	7.31E-02
	OKATIE	0	0	0	2	0	7.31E-02
	MISSISSIPPI	0	0	0	1	0	3.69E-01
	PUTTEN	0	0	0	1	0	3.69E-01

	AJIOBO	0	0	1	2	2	4.01E-01
	BRON	0	0	0	0	1	4.47E-01
	KINTAMBO	0	0	0	0	2	1.16E-01
	IDIKAN	0	1	0	0	1	6.15E-01
	ADJAME	0	0	0	0	1	4.47E-01
	KEDOUGOU	2	2	0	1	1	6.94E-01
	DURHAM	2	1	3	2	0	4.42E-01
	AGBENI	1	1	0	0	0	5.71E-01
	GRUMPENSIS	1	0	0	0	0	3.77E-01
	WORTHINGTON	1	0	0	1	0	5.17E-01
	HAVANA	0	5	1	2	0	4.49E-02
	CUBANA	0	2	0	1	0	2.95E-01
	SUBSPII						
	SUBSPII [II 13,23:-:-]	0	0	1	2	0	2.15E-01
	SUBSPII [II 13,23:g,m,t]	0	1	0	0	1	6.15E-01
	SUBSPII [II 13,23:-:e,n,z15]	0	2	0	0	0	1.23E-01
	SubspIIIa						
	SubspIIIa [IIIa 13,23:z4,z23]	0	0	0	1	1	5.59E-01
O:28 (M)	**POMONA**	4	5	7	16	16	5.21E-03
	UMBILO	1	0	2	0	3	2.46E-01
	COTHAM	1	1	2	7	2	2.98E-02
	ANK	0	0	0	0	2	1.16E-01
	VITKIN	2	3	0	0	1	2.67E-01
	ONA	0	0	0	0	1	4.47E-01
	BABELSBERG	1	0	0	0	0	3.77E-01
	CHICAGO	1	1	0	0	0	5.71E-01
	FRIEDRISCHSFELDE	1	0	0	0	0	3.77E-01
	NIMA	1	1	1	0	0	7.30E-01
	AMOUTIVE	0	1	0	0	0	4.59E-01
	SOLNA	0	1	0	0	0	4.59E-01
	SUBSP						
	SUBSP [28:-:-]	0	0	1	0	0	3.73E-01
	SUBSP [28:z10:-]	0	1	0	0	0	4.59E-01
O:3,10 (E1)	**LONDON**	8	1	2	5	5	9.07E-02
	WELTEVREDEN	1	5	2	6	4	3.28E-01
	ANATUM	2	6	3	2	3	6.21E-01
	GIVE	2	3	2	2	3	9.93E-01
	MUENSTER	4	2	1	3	2	6.50E-01
	CUCKMERE	0	0	0	0	1	4.47E-01
	UGANDA	2	0	0	0	1	2.37E-01
	GOELZAU	0	0	0	0	1	4.47E-01
	AMAGER	0	1	0	0	1	6.15E-01
	BUTANTAN	1	0	0	0	1	5.64E-01
	VELJE	2	0	0	0	0	7.66E-02

	AMSTERDAM	1	0	1	1	0	6.89E-01
	KALINA	1	0	0	0	0	3.77E-01
	NYBORG	1	0	0	0	0	3.77E-01
	ORION	1	1	0	0	0	5.71E-01
	REGENT	1	0	0	0	0	3.77E-01
	ZANZIBAR	1	0	0	0	0	3.77E-01
	OXFORD	0	2	0	1	0	2.95E-01
	NCHANGA	0	1	0	0	0	4.59E-01
	MELEAGRIDIS	0	0	2	0	0	7.47E-02
	SUBSP						
	SUBSP [3,10:l,z13:-]	1	0	0	0	0	3.77E-01
O:35 (O)	**EBRIE**	0	0	1	0	6	1.27E-03
	MONSCHAUI	2	4	2	1	4	7.15E-01
	ADELAIDE	1	1	6	0	1	8.57E-03
	EALING	0	1	0	1	0	5.66E-01
	ANECHO	0	0	0	1	0	3.69E-01
O:1,3, 19 (E4)	**SENFTENBERG**	8	16	6	4	8	9.81E-02
	CARNO	0	0	0	2	0	7.31E-02
	FAREHAM	0	0	0	1	0	3.69E-01
	RIDEAU	0	0	0	1	0	3.69E-01
	LIVERPOOL	0	0	0	1	0	3.69E-01
	CANNSTATT	0	0	0	1	0	3.69E-01
	SUBSPI						
	SUBSPI [I 3,19:l,z13:-]	0	0	0	0	1	4.47E-01
	SUBSPI [I 3,19:-:-]	0	0	1	0	1	5.61E-01
	SUBSPI [I 3,19:d:-]	0	0	0	1	0	3.69E-01
	SUBSPI [I 3,19:b:-]	0	0	1	0	0	3.73E-01
	WINTERTHUR	0	0	0	0	1	4.47E-01
	LLANDOFF	1	0	0	1	0	5.17E-01
	VILVOORDE	1	0	0	0	0	3.77E-01
O:30 (N)	**URBANA**	2	5	6	1	8	1.51E-01
	AGO	0	0	0	2	1	2.30E-01
	SUBSPII						
	SUBSPII [II 30:l,z28:z6]	0	0	1	0	1	5.61E-01
	SUBSPII [II 30:-:-]	0	2	4	1	0	7.78E-02
O:2 (A)	**PARATYPHI A**	5	6	6	12	6	2.44E-01
	NITRA	0	0	0	0	1	4.47E-01
O:16 (I)	**HULL**	0	0	0	0	2	1.16E-01
	SANGERA	0	3	0	0	1	1.08E-01
	MALSTATT	0	0	0	0	1	4.47E-01
	SZENTES	0	0	0	1	1	5.59E-01
	GAMINARA	0	2	1	0	1	5.39E-01
	HVITTINGFOSS	0	0	0	4	1	1.21E-02

	TEES	1	0	0	0	0	3.77E-01
	NOTTINGHAM	0	1	0	0	0	3.69E-01
	WISBERCH	0	0	0	1	0	4.59E-01
	GLASGOW	0	0	0	1	0	3.69E-01
	SAPHRA	0	0	1	0	0	3.69E-01
	SUBSPI						
	SUBSPI [I 16:l,v:-]	0	0	0	1	0	3.73E-01
	SUBSPI [I 16:b:-]	0	0	0	1	0	3.69E-01
	SUBSPIIIb						
	SUBSPIIIb [IIIb 16:z10:e,n,x,z15]	0	1	0	0	0	3.69E-01
	SubspIV						
	SubspIV [IV 16:z4,z32]	0	0	0	1	0	4.59E-01
O:11 (F)	**RUBISLAW**	1	1	1	2	2	9.30E-01
	ABAETETUBA	0	1	0	1	1	7.60E-01
	SUBSPI						
	SUBSPI [I 11:i:-]	0	0	0	0	1	4.47E-01
	SUBSPI [I 11:k:-]	0	0	1	0	0	3.73E-01
	SUBSPI [I 11:-:e,n,x]	1	0	0	0	0	3.77E-01
	SUBSPIIIa						
	SUBSPIIIa [IIIa 11:z4,z23]	0	0	0	1	0	3.69E-01
	SubspIV						
	SubspIV [IV 11:g,z51]	0	1	0	0	0	4.59E-01
	SubspIV [IV 11:z4,z23:-]	0	0	0	1	0	3.69E-01
	SENEGAL	1	0	0	0	0	3.77E-01
	KISARAWE	0	0	1	0	1	5.61E-01
	MARSEILLE	0	0	0	0	1	4.47E-01
	ABERDEEN	0	4	0	1	0	2.83E-02
	LEEUWARDEN	0	1	0	0	0	4.59E-01
	VENEZIANA	0	0	2	1	0	2.17E-01
	WOHLEN	0	0	0	1	0	3.69E-01
O:17 (J)	**CARMEL**	3	10	6	11	6	2.10E-01
	MATADI	0	0	2	1	0	2.17E-01
O:45 (W)	**SUELLDORF**	0	0	0	2	1	2.30E-01
	APAPA	1	4	1	0	1	2.20E-01
	JODHPUR	0	0	0	1	0	3.69E-01
	DUGBE	0	0	1	0	0	3.73E-01
	SUBSPI						
	SUBSPI [I 45:r:-]	0	0	0	0	1	4.47E-01
	SUBSPI [I 45:b:-]	2	0	0	0	0	7.66E-02
	SUBSPI [I 45:z:-]	0	0	1	0	0	3.73E-01
	SUBSPI [I 45:-:-]	0	0	0	0	1	4.47E-01
	SubspIV						
	SubspIV [IV 45:g,z51:-]	0	1	0	1	0	5.66E-01

O:44 (V)	**KUA**	0	0	1	0	1	5.61E-01
	SubspIV						
	SubspIV [IV 44:z4,z23]	2	2	1	0	3	5.79E-01
	SubspIV [IV 44:z4,z32:-]	1	0	0	0	0	3.77E-01
	SubspIIIa						
	SubspIIIa [IIIa 44:z4,-]	0	2	0	0	0	1.23E-01
O:50 (Z)	**SubspII**						
	SubspII [II 50:b:Z6]	0	0	1	0	0	3.73E-01
	SubspIIIb						
	SubspIIIb [IIIb 50:-:-]	0	0	1	0	0	3.73E-01
	SubspIIIb [IIIb 50:lv:e,n,x,z15]	0	0	0	0	2	1.16E-01
	SubspIIIb [IIIb 50:k:z]	0	0	1	3	2	2.04E-01
	SubspIIIb [IIIb 50:z52:z35]	1	0	0	0	0	3.77E-01
	SubspIV						
	SubspIV [IV 50:g,z51:-]	0	2	0	2	0	2.06E-01
O:21 (L)	**MINNESOTA**	2	1	3	3	3	8.17E-01
	SubspII						
	SubspII [II 21:g,t]	2	0	3	1	0	1.82E-01
O:9,46 (D2)	**BENIN**	0	0	0	0	1	4.47E-01
	TORONTO	0	0	0	0	1	4.47E-01
	SUBSPI						
	SUBSPI [I 9,46:-:e,n,x]	0	0	0	0	1	4.47E-01
O:40 (R)	**JOHANNESBURG**	0	1	1	1	1	9.15E-01
	DUVAL	0	0	0	1	0	3.69E-01
	OMIFISAN	0	1	0	0	0	4.59E-01
	TILENE	0	0	1	0	0	3.73E-01
	SUBSPI						
	SUBSPI [I 40:eh:-]	0	0	0	0	1	4.47E-01
	SUBSPI [I 40:-:-]	0	0	1	0	0	3.73E-01
	SubspII						
	SubspII [II 40:-:1,5]	0	0	0	1	0	3.69E-01
	SubspII [II 40:z39:1,7]	0	0	0	1	0	3.69E-01
	SubspIV						
	SubspIV [IV 40:z4,z24:-]	0	0	0	1	1	5.59E-01
O:41 (S)	**WAYCROSS**	0	2	2	0	0	2.08E-01
	SubspIIIa						
	SubspIIIa [IIIa 41:z4,z23]	2	1	3	0	2	4.85E-01
	SubspII						
	SubspII [II 41:-:-]	0	0	1	0	0	3.73E-01

O:42 (T)	**TOMEGBE**	0	0	0	0	1	4.47E-01
	KANESHIE	2	0	0	0	0	7.66E-02
	FREDERIKSBERG	1	0	0	0	0	3.77E-01
	SUBSPI						
	SUBSPI [I 42:-:-]	0	0	1	2	1	4.38E-01
	SubspIIIb						
	SubspIIIb [IIIb 42:k:-]	0	0	1	0	0	3.73E-01
O:38 (P)	**INVERNESS**	0	0	1	0	0	3.73E-01
	SHEFFIELD	0	0	0	1	0	3.69E-01
	LANSING	0	0	1	0	0	3.73E-01
	KASENYI	0	0	0	0	1	4.47E-01
	SubspIIIb						
	SubspIIIb [IIIb 38:r:1,5,7]	0	0	0	1	0	3.69E-01
	SubspIV						
	SubspIV [IV 38:z4,z23]	0	0	0	0	1	4.47E-01
O:51	**OVERSCHIE**	0	0	0	0	1	4.47E-01
O:60	**SubspIIIb**						
	SubspIIIb [IIIb 60-:-]	0	0	0	1	0	3.69E-01
	SubspV						
	SubspV [V 60:z41]	0	0	0	0	1	4.47E-01
O:43 (U)	**KINGABWA**	0	1	0	0	0	4.59E-01
	MBAO	0	1	1	0	0	5.68E-01
	SubspIV						
	SubspIV [IV 43:z4,z32]	0	0	0	0	1	4.47E-01
O:39 (Q)	**WANDSWORTH**	0	0	1	0	0	3.73E-01
	SUBSPI						
	SUBSPI [I 39:-:-]	0	1	1	2	1	7.10E-01
O:58	**SUBSPII**						
	SUBSPII [II 58:c:z6]	0	0	0	1	0	3.69E-01
	SUBSPII [II 58:l,z13,z28:z6]	1	1	1	0	1	9.17E-01
	SubspIIIb						
	SubspIIIb [IIIb 58:z52:z35]	1	0	0	0	0	3.77E-01
O:48 (Y)	**SubspIIIb**						
	SubspIIIb [IIIb 48:k:z53]	1	0	0	0	0	3.77E-01
	SubspIIIb [IIIb 48:-:z53]	0	1	0	0	0	4.59E-01
	SubspIIIb [III b 48:i:z]	1	1	2	0	0	4.46E-01
	SubspIIIb [IIIb 48:i:z61]	0	0	2	0	0	7.47E-02
	SubspIIIb [IIIb 48:i:-]	0	0	1	0	0	3.73E-01
	SubspIIIb [IIIb 48:z:-]	0	0	1	0	0	3.73E-01
	SubspIIIb [IIIb 48:z52:z]	0	0	1	0	0	3.73E-01

	SubspIV						
	SubspIV [IV 48:g,z51:-]	1	1	0	0	1	7.63E-01
	SubspIV [IV 48:Z4,Z32:-]	0	0	1	0	0	3.73E-01
O:6,14 (H)	**SUNDSVALL**	1	0	0	0	1	5.64E-01
	BLIJDORP	1	1	0	0	0	5.71E-01
	BOUSSO	1	0	0	0	0	3.77E-01
	FLORIDA	1	0	0	0	0	3.77E-01
	CARACAS	0	0	0	1	0	3.69E-01
O:40 (R)	**TILENE**	1	0	0	0	0	3.77E-01
O:65	**SUBSPIIIb**						
	SubspIIIb [IIIb 65:z10:e,n,x,z15]	1	0	0	0	0	3.77E-01
	SubspIIIb [IIIb 65:z10:z]	0	1	0	0	0	4.59E-01
O:18 (K)	**CERRO**	3	0	0	1	0	5.94E-02
	SUBSPI						
	SubspI [18:-:-]	0	0	0	1	0	3.69E-01
O:47 (X)	**MOPUALINE**	0	0	0	1	0	3.69E-01
	TAMBERMA	0	0	0	2	0	7.31E-02
	MOUNTPLEASANT	1	0	0	0	0	3.77E-01
	SubspIIIb						
	SubspIIIb [IIIb 47:-:-]	0	1	0	0	0	4.59E-01
	SubspIIIb [IIIb 47:k:z35]	0	1	2	1	0	4.44E-01
O:30 (N)	**URBANA**	1	0	0	0	0	3.77E-01
O:53	**SubspIIIb**						
	SubspIIIb [IIIb 53:z10:z35]	1	0	0	0	0	3.77E-01
	SubspIIIb [IIIb:53:lv:e,n,x,z15]	1	0	0	0	0	3.77E-01
O:9, 46 (D2)	**PLYMOUTH**	0	1	0	0	0	4.59E-01
	BAILDON	0	0	0	3	0	4.59E-01
	SubspIIIb						
	SubspIIIb [IIIb 48-:-]	0	0	0	1	0	1.21E-02
	SubspIIIb [III b 48:i:z]	0	0	0	1	0	3.69E-01
	SubspIIIa						
	SubspIIIa [IIIa 56:z4,z23,z32]	0	0	0	1	0	3.69E-01
O:61	**SubspIIIb**						
	SubspIIIb [IIIb 61:-:1,5,7]	0	1	0	0	0	3.69E-01
	SubspIIIb [IIIb 61:i:Z53]	0	1	1	1	0	4.59E-01

NOT CLASSIFIED	20	19	11	8	10	

Table S4. Characterization of Quinolone-resistant Salmonella isolates. Wild-type alleles are indicated with '/'. Empty slots, not performed.

Id	Serovar	Nal[a]	Cip[a]	E-test NAL	E-test CIP	gyrA[b]	gyrB[b]	parC[b]	QnrA	QnrB	QnrC	QnrD	QnrS	AAC
11-2885	Agona	7	16											
10-04452	Brandenburg	13	22	32	0.38				x	x	x	x	QnrS1	x
11-2645	Brandenburg	12	21	>256	0.5	/	/	The57-Ser	x	x	x	x	QnrS1	x
11-3795	Derby	7	25	6	0.012	Asp87-Tyr	/	The57-Ser	x	x	x	x	x	x
11-4163	Derby	7	24	>256	0.19	Ser83-Phe	/	The57-Ser	x	x	x	x	x	x
11-0146	Derby	10	24	48	0.38	/	/	The57-Ser	x	QnrB5	x	x	x	x
09-01274	Derby	7	28			Asp87-Asn	/	Thr57-Ser	x	x	x	x	x	x
S13BD02774	Derby	7	10						x	x	x	x	x	x
10-00260	Dublin	7	22	> 256	0.25	Ser83-Phe	/	/	x	x	x	x	x	x
10-01266	Dublin	7	25	> 256	0.25	Ser83-Phe	/	/	x	x	x	x	x	x
10-04604	Dublin	7	25	> 256	0.25	Ser83-Phe		/	x	x	x	x	x	x
10-04446	Dublin	7	25	> 256	0.25	Ser83-Phe		/	x	x	x	x	x	x
11-0294	Dublin	7	26	12	0.016				x	x	x	x	x	x
09-02976	Dublin	7	26			Ser83-Phe	/	/						
12-0522	Dublin	7	28			Ser83-Phe	/	/	x	x	x	x	x	x
S13BD03130	Dublin	7	23						x	x	x	x	x	x
10-02502	Enteritidis	7	22	> 256	0.25	Ser83-Tyr		/	x	x	x	x	x	x
10-02583	Enteritidis	7	23	> 256	0.19	Asp87-Tyr		/	x	x	x	x	x	x
10-01948	Enteritidis	7	24	> 256	0.19	Asp87-Tyr		/	x	x	x	x	x	x
10-02820	Enteritidis	7	24	> 256	0.19	Ser83-Tyr		/	x	x	x	x	x	x
10-02324	Enteritidis	7	24	> 256	0.125	Ser83-Phe / Asp87-Asn		/	x	x	x	x	x	x
10-05384	Enteritidis	7	24	> 256	0.125	Asp87-Tyr		/	x	x	x	x	x	x
10-02544	Enteritidis	7	24	> 256	0.19	Asp87-Tyr		/	x	x	x	x	x	x
10-03244	Enteritidis	7	24	> 256	0.25	Ser83-Tyr		/	x	x	x	x	x	x
10-05117	Enteritidis	7	25	> 256	0.125	Asp87-Tyr	/		x	x	x	x	x	x
10-02667	Enteritidis	7	25	> 256	0.125	Ser83-Tyr / Asp87-Asn		/	x	x	x	x	x	x
10-02055	Enteritidis	7	25	> 256	0.125	Ser83-Phe		/	x	x	x	x	x	x
10-05178	Enteritidis	7	25	> 256	0.19	Asp87-Tyr	/	/	x	x	x	x	x	x
10-01596	Enteritidis	7	25	> 256	0.125	Asp87-Tyr	/	/	x	x	x	x	x	x

10-00119	Enteritidis	7	25	> 256	0.19	Asp87-Asn	/	/	x	x	x	x	x	x
10-01573	Enteritidis	7	25	> 256	0.19	Asp87-Tyr	/	/	x	x	x	x	x	x
10-02601	Enteritidis	7	26	> 256	0.94	/	/	/	x	x	x	x	x	x
10-01475	Enteritidis	7	27	> 256	0.094	Asp87-Asn	/	/	x	x	x	x	x	x
10-03570	Enteritidis	7	29	> 256	0.094	Asp87-Gly	/	/	x	x	x	x	x	x
11-1562	Enteritidis	7	24	>256	0.125	Asp87-Tyr	/	/	x	x	x	x	x	x
11-0227	Enteritidis	7	24	>256	0.19	Asp87-Asn	/	/	x	x	x	x	x	x
11-0809	Enteritidis	7	23	>256	0.25	Ser83-Phe	/	/	x	x	x	x	x	x
11-1090	Enteritidis	7	24	>256	0.19	Asp87-Asn	/	/	x	x	x	x	x	x
11-1179	Enteritidis	7	24	>256	0.19	Asp87-Tyr	/	/	x	x	x	x	x	x
11-1217	Enteritidis	7	24	>256	0.125	Asp87-Tyr	/	/	x	x	x	x	x	x
11-1296	Enteritidis	7	25	>256	0.094	Asp87-Gly	/	/	x	x	x	x	x	x
11-1576	Enteritidis	7	24	>256	0.125	Asp87-Tyr	/	/	x	x	x	x	x	x
11-0811	Enteritidis	7	25	>256	0.19	Asp87-Tyr	/	/	x	x	x	x	x	x
11-0307	Enteritidis	7	26	>256	0.125	Asp87-Tyr	/	/	x	x	x	x	x	x
11-0921	Enteritidis	7	26	>256	0.125	Asp87-Tyr	/	/	x	x	x	x	x	x
11-0580	Enteritidis	7	26	>256	0.19	Asp87-Asn	/	/	x	x	x	x	x	x
11-0299	Enteritidis	7	25	>256	0.19	Asp87-Asn	/	/	x	x	x	x	x	x
11-0480	Enteritidis	7	25	>256	0.19	Asp87-Tyr	/	/	x	x	x	x	x	x
11-0107	Enteritidis	7	26	>256	0.125	Asp87-Tyr	/	/	x	x	x	x	x	x
11-1468	Enteritidis	7	26	>256	0.125	Asp87-Asn	/	/	x	x	x	x	x	x
09-01903	Enteritidis	7	24			/	/	/	x	x	x	x	x	x
09-02798	Enteritidis	7	22			Asp87-Asn	/	/						
09-02875	Enteritidis	7	23			Asp87-Tyr	/	/						
09-01313	Enteritidis	7	23	> 256	0,125	Ser83-Tyr	/	/						
09-01902	Enteritidis	7	23			/	/	/	x	x	x	x	x	x
09-02118	Enteritidis	7	23			/	/	/	x	x	x	x	x	x
09-02730	Enteritidis	7	24			Asp87-Tyr	/	/	x	x	x	x	x	x
09-02872	Enteritidis	7	25			Asp87-Tyr	/	/	x	x	x	x	x	x
09-00769	Enteritidis	7	26						x	x	x	x	x	x
09-01055	Enteritidis	7	24						x	x	x	x	x	x

09-01628	Enteritidis	7	20	> 256	0,50	Asp87-Tyr	/	/								
09-02170	Enteritidis	7	24			/	/	/								
09-02731	Enteritidis	7	24			Asp87-Tyr	/	/	x	x	x	x	x	x		
09-02759	Enteritidis	7	25			Asp87-Asn	/	/	x	x	x	x	x	x		
09-02892	Enteritidis	7	24			Asp87-Tyr	/	/								
09-03111	Enteritidis	7	25			/	/	/								
09-04522	Enteritidis	7	25	> 256	16	/	/	/								
09-00104	Enteritidis	7	24													
09-00157	Enteritidis	7	25													
09-00335	Enteritidis	7	27													
09-00969	Enteritidis	7	27													
09-00975	Enteritidis	7	25													
09-01186	Enteritidis	7	26													
09-01414	Enteritidis	7	26			Asp87-Asn	/	/								
09-02050	Enteritidis	7	20			Asp87-Tyr	/	/	x	x	x	x	x	x		
09-03113	Enteritidis	7	25													
09-03662	Enteritidis	7	26			Asp87-Tyr	/	/								
09-00155	Enteritidis	7	24													
09-00479	Enteritidis	7	24													
09-00512	Enteritidis	7	24													
09-00595	Enteritidis	7	24													
09-02014	Enteritidis	7	26			Asp87-Asn	/	/								
09-02670	Enteritidis	7	24			/	/	/	x	x	x	x	x			
09-03016	Enteritidis	7	20													
09-04018	Enteritidis	7	28			Asp87-Tyr	/	/								
09-00760	Enteritidis	7	25													
09-04086	Enteritidis	7	27	> 256	0,19	Ser83-Tyr	/	/								
09-04338	Enteritidis	7	29	> 256	0,19	Asp87-Tyr	/	/								
09-03586	Enteritidis	7	29			Asp87-Tyr	/	/								
09-03592	Enteritidis	7	27			Ser83-Phe	/	/								
09-03402	Enteritidis	7	30			Asp87-Asn	/	/								

10-00081	Enteritidis	7	23		/		/	/	x	x	x	x	x	x
10-01928	Enteritidis	7	34											
11-3705	Enteritidis	7	24						x	x	x	x	x	x
11-4075	Enteritidis	7	26											
11-4200	Enteritidis	7	22		/		/	/	x	x	x	x	x	x
11-3774	Enteritidis	7	24											
11-4605	Enteritidis	7	27											
11-1791	Enteritidis	7	25						x	x	x	x	x	x
11-2358	Enteritidis	7	26											
11-2387	Enteritidis	7	27											
11-1945	Enteritidis	7	25											
11-2398	Enteritidis	7	26											
11-1824	Enteritidis	7	26											
11-3674	Enteritidis	7	28											
11-2445	Enteritidis	7	26											
11-4062	Enteritidis	7	27											
11-3886	Enteritidis	7	29											
11-3653	Enteritidis	7	28											
11-4155	Enteritidis	7	29						x	x	x	x	x	x
11-3046	Enteritidis	7	23											
11-4603	Enteritidis	7	24						x	x	x	x	x	x
11-3132	Enteritidis	7	24											
11-3356	Enteritidis	7	24											
11-3033	Enteritidis	7	26											
12-1288	Enteritidis	7	27						x	x	x	x	x	x
12-0429	Enteritidis	7	23						x	x	x	x	x	x
12-0872	Enteritidis	7	24						x	x	x	x	x	x
12-0832	Enteritidis	7	25						x	x	x	x	x	x
12-1724	Enteritidis	7	24						x	x	x	x	x	x
12-0788	Enteritidis	7	25		Ser83-Tyr		/	/	x	x	x	x	QnrS1	x
12-2589	Enteritidis	7	26						x	x	x	x	x	x

12-2606	Enteritidis	7	26					x	x	x	x	x	x
12-1995	Enteritidis	7	28					x	x	x	x	x	x
12-2592	Enteritidis	7	26					x	x	x	x	x	x
12-2687	Enteritidis	7	26	Asp87-Tyr		/		x	x	x	x	x	x
12-2751	Enteritidis	7	28	Asp87-Tyr	/	/		x	x	x	x	x	x
12-2396	Enteritidis	7	25	Asp87-Tyr	/	/		x	x	x	x	x	x
12-1812	Enteritidis	7	25					x	x	x	x	x	x
12-3060	Enteritidis	7	26					x	x	x	x	x	x
12-2867	Enteritidis	7	25					x	x	x	x	x	x
12-2590	Enteritidis	7	25					x	x	x	x	x	x
12-1062	Enteritidis	7	25					x	x	x	x	x	x
12-2687	Enteritidis	7	26										
12-2793	Enteritidis	7	27					x	x	x	x	x	x
12-3972	Enteritidis	7	25					x	x	x	x	x	x
12-3578	Enteritidis	7	27	Asp87-Tyr	/	/		x	x	x	x	x	x
12-1442	Enteritidis	7	26					x	x	x	x	x	x
12-4602	Enteritidis	7	27					x	x	x	x	x	x
12-2419	Enteritidis	7	26	Asp87-Tyr	/	/		x	x	x	x	x	x
12-2717	Enteritidis	7	26					x	x	x	x	x	x
12-0033	Enteritidis	7	29					x	x	x	x	x	x
12-4732	Enteritidis	7	28					x	x	x	x	x	x
12-2420	Enteritidis	7	26					x	x	x	x	x	x
12-4319	Enteritidis	7	27	Asp87-Tyr	/	/		x	x	x	x	x	x
12-2426	Enteritidis	7	27					x	x	x	x	x	x
12-2991	Enteritidis	7	28					x	x	x	x	x	x
12-3351	Enteritidis	7	25					x	x	x	x	x	x
12-0443	Enteritidis	7	32					x	x	x	x	x	x
12-0136	Enteritidis	7	28					x	x	x	x	x	x
12-4605	Enteritidis	7	27					x	x	x	x	x	x
12-4290	Enteritidis	7	27	Asp87-Tyr	/	/		x	x	x	x	x	x
12-0123	Enteritidis	7	26					x	x	x	x	x	x

12-0073	Enteritidis	7	28										
S13BD03234	ENTERITIDIS	7	24					x	x	x	x	x	x
S13BD02512	ENTERITIDIS	7	27					x	x	x	x	x	x
S13BD00845	ENTERITIDIS	7	26					x	x	x	x	x	x
S13BD03049	ENTERITIDIS	7	26					x	x	x	x	x	x
S13BD01534	ENTERITIDIS	7	25		Asp87-Tyr	/	/	x	x	x	x	x	x
S13BD03810	ENTERITIDIS	7	26					x	x	x	x	x	x
S13BD03251	ENTERITIDIS	7	29					x	x	x	x	x	x
S13BD02391	ENTERITIDIS	7	27					x	x	x	x	x	x
S14BD00223	ENTERITIDIS	7	27					x	x	x	x	x	x
S13BD02433	ENTERITIDIS	7	28					x	x	x	x	x	x
S13BD02889	ENTERITIDIS	7	24					x	x	x	x	x	x
S13BD01770	ENTERITIDIS	7	27		Asp87-Tyr	/	/	x	x	x	x	x	x
S13BD04011	ENTERITIDIS	7	27		Asp87-Tyr	/	/	x	x	x	x	x	x
S13BD01784	ENTERITIDIS	7	26		Asp87-Asn	/	/	x	x	x	x	x	x
S13BD04458	ENTERITIDIS	7	28		Asp87-Tyr	/	/	x	x	x	x	x	x
S13BD00929	ENTERITIDIS	7	26					x	x	x	x	x	x
S13BD00695	ENTERITIDIS	7	24					x	x	x	x	x	x
S13BD02248	ENTERITIDIS	7	27					x	x	x	x	x	x
S13BD00835	ENTERITIDIS	7	26					x	x	x	x	x	x
S13BD02660	ENTERITIDIS	7	26					x	x	x	x	x	x
S13BD02885	ENTERITIDIS	7	25					x	x	x	x	x	x
S13BD01265	ENTERITIDIS	7	28		Asp87-Tyr	/	/	x	x	x	x	x	x
S13BD02940	ENTERITIDIS	7	27					x	x	x	x	x	x
S13BD02537	ENTERITIDIS	7	26					x	x	x	x	x	x
S13BD03095	ENTERITIDIS	7	27					x	x	x	x	x	x
S13BD00633	ENTERITIDIS	7	25					x	x	x	x	x	x
S13BD02399	ENTERITIDIS	7	25					x	x	x	x	x	x
S13BD01483	ENTERITIDIS	7	25					x	x	x	x	x	x
S13BD04373	ENTERITIDIS	7	22					x	x	x	x	x	x
S13BD01804	ENTERITIDIS	7	28					x	x	x	x	x	x

S13BD01796	ENTERITIDIS	7	27						x	x	x	x	x	x
S13BD02772	ENTERITIDIS	7	27						x	x	x	x	x	x
S13BD02375	ENTERITIDIS	7	27						x	x	x	x	x	x
S13BD02129	ENTERITIDIS	7	27						x	x	x	x	x	x
S13BD01034	ENTERITIDIS	7	27			Asp87-Tyr	/	/	x	x	x	x	x	x
S13BD03022	ENTERITIDIS	7	27						x	x	x	x	x	x
10-02364	Hadar	7	24	> 256	0,38--	Ser83-Phe / Asp87-Asn		Thr57-Ser	x	x	x	x	x	x
10-00907	Hadar	7	25	> 256	0.19	Asp87-Asn	/	Thr57-Ser	x	x	x	x	x	x
10-05419	Hadar	7	26	> 256	0.19	Asp87-Asn	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	x
11-4700	Hadar	7	7	>256	>32	Asp87-Asn	/	The57-Ser	x	x	x	x	x	x
11-4178	Hadar	7	26	>256	0.19	Asp87-Asn	/	The57-Ser	x	x	x	x	x	x
11-2838	Hadar	7	24	>256	0.19	Asp87-Asn	/	The57-Ser	x	x	x	x	x	x
11-0985	Hadar	7	25	>256	0.19	Asp87-Asn	/	The57-Ser	x	x	x	x	x	x
11-3178	Hadar	7	24	>256	0.25	Ser83-Phe	/	The57-Ser	x	x	x	x	x	x
11-3929	Hadar	7	30	>256	0.19	Asp87-Tyr	/	The57-Ser	x	x	x	x	x	x
11-3822	Hadar	7	25	>256	0.125	Asp87-Asn	/	The57-Ser	x	x	x	x	x	x
09-01687	Hadar	7	23	> 256	1	Asp87-Asn	/	Thr57-Ser	x	x	x	x	x	x
09-00773	Hadar	7	25											
09-01073	Hadar	7	26											
09-03048	Hadar	7	25			/	/	/						
09-02232	Hadar	7	26			Asp87-Asn	/	Thr57-Ser						
09-01141	Hadar	7	26											
12-2451	Hadar	7	29						x	x	x	x	x	x
12-3810	Hadar	7	26						x	x	x	x	x	x
12-3098	Hadar	7	28						x	x	x	x	x	x
12-3385	Hadar	7	28			Asp87-Asn	/	Thr57-Ser	x	x	x	x	x	x
12-4410	Hadar	7	28			Asp87-Asn	/	Thr57-Ser	x	x	x	x	x	x
S13BD00677	HADAR	7	19			Asp87-Asn	/	Thr57-Ser	x	x	x	x	x	x
S13BD02538	HADAR	7	27			Asp87-Asn	/	Thr57-Ser	x	x	x	x	x	x
S13BD01038	HADAR	7	29			Asp87-Asn	/	Thr57-Ser	x	x	x	QnrD1	x	x

S13BD03284	HADAR	7	25						x	x	x	x	x	x	
S13BD03267	HADAR	7	27						x	x	x	x	x	x	
S13BD02460	HADAR	7	27						x	x	x	x	x	x	
S13BD04222	HADAR	7	27						x	x	x	x	x	x	
10-00275	Infantis	13	20	> 256	0.75	/	/	Thr57-Ser	QnrA1	x	x	x	x	aac(6')-Ib	
10-03001	Infantis	7	20	> 256	0.5	Ser83-Tyr		Thr57-Ser	x	x	x	x	x	x	
10-02520	Infantis	7	20	> 256	0.5	Ser83-Tyr	/	Thr57-Ser	x	x	x	x	x	x	
10-02198	Infantis	7	20	> 256	0.5	Ser83-Tyr	/	Thr57-Ser	x	x	x	x	x	x	
10-01795	Infantis	7	21	> 256	0.5	Ser83-Tyr	/	Thr57-Ser	x	x	x	x	x	x	
10-02264	Infantis	7	21	> 256	0.5	Ser83-Tyr	/	Thr57-Ser	x	x	x	x	x	x	
10-02648	Infantis	13	24						x	x	x	x	QnrS1	x	
11-0926	Infantis	7	25	>256	0.25	Asp87-Gly	/	The57-Ser	x	x	x	x	x	x	
11-1265	Infantis	7	25	>256	0.25	Asp87-Gly	/	The57-Ser	x	x	x	x	x	x	
11-2671	Infantis	7	22	>256	0.38	Ser83-Phe	/	The57-Ser	x	x	x	x	x	x	
11-1245	Infantis	7	23	>256	0.75	Ser83-Tyr	/	The57-Ser	x	x	x	x	x	x	
11-1596	Infantis	7	22	>256	0.5	Ser83-Tyr	/	The57-Ser	x	x	x	x	x	x	
11-3097	Infantis	7	25	>256	0.25	Asp87-Tyr	/	The57-Ser	x	x	x	x	x	x	
11-3468	Infantis	7	25	>256	0.75	Ser83-Tyr	/	The57-Ser	x	x	x	x	x	x	
11-3538	Infantis	7	23	>256	0.5	Ser83-Tyr	/	The57-Ser	x	x	x	x	x	x	
11-3524	Infantis	7	24	>256	0.75	Ser83-Tyr	/	The57-Ser	x	x	x	x	x	x	
11-3871	Infantis	7	26	>256	0.38	Ser83-Tyr	/	The57-Ser	x	x	x	x	x	x	
09-02663	Infantis	7	27			Asp87-Tyr	/	Thr57-Ser							
09-03243	Infantis	7	20			Ser83-Tyr	/	Thr57-Ser							
09-04504	Infantis	7	23			/	/	Thr57-Ser							
09-02226	Infantis	7	23			Asp87-Tyr	/	Thr57-Ser							
09-01976	Infantis	7	24			Asp87-Tyr	/	Thr57-Ser							
09-02108	Infantis	7	24			/	/	Thr57-Ser							
09-03230	Infantis	7	25			Ser83-Tyr	/	Thr57-Ser							
10-02152	Infantis	7	21			Ser83-Tyr	/	Thr57-Ser							
10-02873	Infantis	7	33												

12-3591	Infantis	7	31						x	x	x	x	x	x
12-4502	Infantis	7	25						x	x	x	x	x	x
12-3544	Infantis	7	23						x	x	x	x	x	x
12-3465	Infantis	7	25						x	x	x	x	x	x
12-0704	Infantis	7	23						x	x	x	x	x	x
12-0680	Infantis	7	23						x	x	x	x	x	x
12-2399	Infantis	7	29						x	x	x	x	x	x
12-0126	Infantis	7	25											
12-0218	Infantis	7	25			Ser83-Tyr	/	Thr57-Ser	x	x	x	x	x	x
12-0125	Infantis	7	32			Asp87-Tyr	/	Thr57-Ser	x	x	x	x	x	x
12-3352	Infantis	7	30			Ser83-Tyr	/	Thr57-Ser	x	x	x	x	x	x
S13BD03795	INFANTIS	7	29						x	QnrB5	x	x	x	x
S13BD01263	INFANTIS	7	24			Asp87-Tyr	/		x	x	x	x	x	x
S13BD03628	INFANTIS	7	30			Asp87-Tyr	/	Thr57-Ser	x	x	x	x	x	x
S13BD02584	INFANTIS	7	29						x	x	x	x	x	x
S13BD01767	INFANTIS	7	25						x	x	x	x	x	x
S13BD01517	INFANTIS	7	25						x	x	x	x	x	x
S13BD00141	INFANTIS	7	22						x	x	x	x	x	x
10-03189	Kentucky	7	7	> 256	> 32	Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	x
10-05215	Kentucky	7	7	>256	>32	Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	x
10-03581	Kentucky	7	7	>256	32	Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	x
10-02743	Kentucky	7	7	> 256	> 32	Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	x
10-02858	Kentucky	7	7	>256	>32	Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	x
10-02957	Kentucky	7	7	> 256	12	Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	x
10-03093	Kentucky	7	7	>256	24	Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	x
10-03916	Kentucky	7	7	>256	16	Ser83-Phe / Asp87-Asn		Thr57-Ser / Ser80-Ile	x	x	x	x	x	x

10-02799	Kentucky	7	7	>256	24	Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	x
10-00431	Kentucky	7	7	> 256	8	Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	x
10-00483	Kentucky	7	7	> 256	8	Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	x
10-04973	Kentucky	7	9	>256	32	Ser83-Phe / Asp87-Asn		Thr57-Ser / Ser80-Ile	x	x	x	x	x	x
10-03134	Kentucky	7	9	> 256	24	Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	x
10-02242	Kentucky	7	9	> 256	32	Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	x
10-03018	Kentucky	7	9	>256	8	Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	x
10-01977	Kentucky	7	9	> 256	12	Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	x
10-00094	Kentucky	7	9	> 256	6	Ser83-Phe / Asp87-Tyr	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	x
10-02624	Kentucky	7	9	> 256	6	Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	x
10-00823	Kentucky	7	9	>256	24	Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	x
10-02432	Kentucky	7	9	> 256	12	Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	x
10-05078	Kentucky	7	10	>256	8	Ser83-Phe / Asp87-Tyr		Thr57-Ser / Ser80-Ile	x	x	x	x	x	x
10-04840	Kentucky	7	10	>256	8	Ser83-Phe / Asp87-Gly	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	x
10-05037	Kentucky	7	10	>256	8	Ser83-Phe		Thr57-Ser / Ser80-Ile	x	x	x	x	x	x
10-02932	Kentucky	7	10	>256	24	Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	x
10-05120	Kentucky	7	10	>256	16	Ser83-Phe / Asp87-Asn		Thr57-Ser / Ser80-Ile	x	x	x	x	x	x
10-05286	Kentucky	7	10	>256	16	Ser83-Phe / Asp87-Asn		Thr57-Ser / Ser80-Ile	x	x	x	x	x	x
10-05177	Kentucky	7	10	>256	24	Ser83-Phe / Asp87-Asn		Thr57-Ser / Ser80-Ile	x	x	x	x	x	x
10-04970	Kentucky	7	10	>256	16	Ser83-Phe / Asp87-Asn		Thr57-Ser / Ser80-Ile	x	x	x	x	x	x

10-05460	Kentucky	7	10	>256	16	Ser83-Phe / Asp87-Asn		Thr57-Ser / Ser80-Ile	x	x	x	x	x	x
10-03217	Kentucky	7	10	> 256	0.19	Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	x
10-02378	Kentucky	7	10	> 256	12	Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	x
10-01718	Kentucky	7	10	> 256	24	Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	x
10-02426	Kentucky	7	10	> 256	16	Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	x
10-04617	Kentucky	7	11	>256	8	Ser83-Phe / Asp87-Asn		Thr57-Ser / Ser80-Ile	x	x	x	x	x	x
10-05459	Kentucky	7	11	>256	16	Ser83-Phe / Asp87-Asn		Thr57-Ser / Ser80-Ile	x	x	x	x	x	x
10-03278	Kentucky	7	11	> 256	6	Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	x
10-01143	Kentucky	7	11	>256	16	Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	x
10-02453	Kentucky	7	11	>256	32	Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	x
10-05569	Kentucky	7	12	>256	32	Ser83-Phe		Thr57-Ser / Ser80-Ile	x	x	x	x	x	x
11-4366	Kentucky	7	10	>256	12	Ser83-Phe / Asp87-Tyr	/	The57-Ser / Ser80-Ile	x	x	x	x	x	x
11-2754	Kentucky	7	10	>256	16	Ser83-Phe / Asp87-Asn	/	The57-Ser / Ser80-Ile	x	x	x	x	x	x
11-3991	Kentucky	7	8	>256	16	Ser83-Phe / Asp87-Asn	/	The57-Ser / Ser80-Ile	x	x	x	x	x	x
11-3620	Kentucky	7	11	>256	8	Ser83-Phe / Asp87-Tyr	/	The57-Ser / Ser80-Ile	x	x	x	x	x	x
11-0112	Kentucky	7	11	>256	12	Ser83-Phe / Asp87-Tyr	/	The57-Ser / Ser80-Ile	x	x	x	x	x	x
11-0673	Kentucky	7	8	>256	8	Ser83-Phe / Asp87-Tyr	/	The57-Ser / Ser80-Ile	x	x	x	x	x	x
11-2779	Kentucky	7	10	>256	8	Ser83-Phe / Asp87-Tyr	/	The57-Ser / Ser80-Ile	x	x	x	x	x	x
11-0355	Kentucky	7	12	>256	6	Ser83-Phe / Asp87-Tyr	/	The57-Ser / Ser80-Ile	x	x	x	x	x	x
11-3215	Kentucky	7	8	>256	12	Ser83-Phe / Asp87-Asn	/	The57-Ser / Ser80-Ile	x	x	x	x	x	x

11-2794	Kentucky	7	9	>256	16	Ser83-Phe / Asp87-Asn	/	The57-Ser / Ser80-Ile	x	x	x	x	x	x
11-3133	Kentucky	7	7	>256	16	Ser83-Phe / Asp87-Asn	/	The57-Ser / Ser80-Ile	x	x	x	x	x	x
11-2207	Kentucky	7	11	>256	6	Ser83-Phe / Asp87-Asn	/	The57-Ser / Ser80-Ile	x	x	x	x	x	x
11-4262	Kentucky	7	12	>256	8	Ser83-Phe / Asp87-Tyr	/	The57-Ser / Ser80-Ile	x	x	x	x	x	x
11-4514	Kentucky	7	7	>256	>32	Ser83-Phe / Asp87-Tyr	/	The57-Ser / Ser80-Ile	x	x	x	x	x	x
11-4283	Kentucky	7	11	>256	8	Ser83-Phe / Asp87-Gly	/	The57-Ser / Ser80-Ile	x	x	x	x	x	x
11-1550	Kentucky	7	12	>256	8	Ser83-Phe / Asp87-Tyr	/	The57-Ser / Ser80-Ile	x	x	x	x	x	x
11-2750	Kentucky	7	8	>256	12	Ser83-Phe / Asp87-Asn	/	The57-Ser / Ser80-Ile	x	x	x	x	x	x
11-0799	Kentucky	7	11	>256	12	Ser83-Phe / Asp87-Asn	/	The57-Ser / Ser80-Ile	x	x	x	x	x	x
11-4717	Kentucky	7	7	>256	>32	Ser83-Phe / Asp87-Tyr	/	The57-Ser / Ser80-Ile	x	x	x	x	x	x
11-0255	Kentucky	7	10	>256	12	Ser83-Phe / Asp87-Asn	/	The57-Ser / Ser80-Ile	x	x	x	x	x	x
11-1123	Kentucky	7	7	>256	8	Ser83-Phe / Asp87-Gly	/	The57-Ser / Ser80-Ile	x	x	x	x	x	x
11-3149	Kentucky	7	9	>256	16	Ser83-Phe / Asp87-Asn	/	The57-Ser / Ser80-Ile	x	x	x	x	x	x
11-4263	Kentucky	7	10	>256	6	Ser83-Phe / Asp87-Tyr	/	The57-Ser / Ser80-Ile	x	x	x	x	x	x
11-4461	Kentucky	7	10	>256	12	Ser83-Phe / Asp87-Tyr	/	The57-Ser / Ser80-Ile	x	x	x	x	x	x
11-4664	Kentucky	7	10	>256	12	Ser83-Phe / Asp87-Asn	/	The57-Ser / Ser80-Ile	x	x	x	x	x	x
11-2525	Kentucky	7	7	>256	>32	Ser83-Phe / Asp87-Asn	/	The57-Ser / Ser80-Ile	x	x	x	x	x	x
11-4122	Kentucky	7	9	>256	16	Ser83-Phe / Asp87-Asn	/	The57-Ser / Ser80-Ile	x	x	x	x	x	x
11-2243	Kentucky	7	7	>256	12	Ser83-Phe / Asp87-Asn	/	The57-Ser / Ser80-Ile	x	x	x	x	x	x
11-2796	Kentucky	7	11	>256	8	Ser83-Phe / Asp87-Tyr	/	The57-Ser / Ser80-Ile	x	x	x	x	x	x

11-4453	Kentucky	7	10	>256	8	Ser83-Phe / Asp87-Tyr	/	The57-Ser / Ser80-Ile	x	x	x	x	x	x
12-1944	Kentucky	7	11	>256	>32	Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	
12-1946	Kentucky	7	7	>256	16	Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	
12-1702	Kentucky	7	23	>256	0.19	Asp87-Asn	/	Thr57-Ser	x	x	x	x	x	
12-3477	Kentucky	7	12	>256	32	Ser83-Phe / Asp87-Tyr	/	Thr57-Ser / Ser80-Ile	x	QnrB1	x	x	x	
12-1892	Kentucky	7	10	>256	24	Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	
12-2259	Kentucky	7	7	>256	>32	Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	
12-0464	Kentucky	7	12	>256	32	Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	
12-0590	Kentucky	7	12	>256	8	Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	
12-2493	Kentucky	7	11	>256	32	Ser83-Phe / Asp87-Gly	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	
12-3585	Kentucky	7	11	>256	16	Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	
12-0433	Kentucky	7	12	>256	16	Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	
12-1244	Kentucky	7	12	>256	32	Ser83-Phe / Asp87-Tyr	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	
12-2458	Kentucky	7	11	>256	16	Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	
12-2758	Kentucky	7	7	>256	16	Ser83-Phe / Asp87-Tyr	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	
12-3007	Kentucky	7	11	>256	16	Ser83-Phe / Asp87-Tyr	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	
12-3577	Kentucky	7	12	>256	24	Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile	x	x	x	QnrD	x	
12-0434	Kentucky	7	11	>256	32	Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	
12-0106	Kentucky	7	13	>256	16	Ser83-Phe / Asp87-Leu	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	
12-0726	Kentucky	7	12	>256	16	Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	
12-1206	Kentucky	7	12	>256	24	Ser83-Phe / Asp87-Asn	/	Thr57-Ser /	x	x	x	x	x	

								Ser80-Ile					
12-2447	Kentucky	14	22	16	0.25	/	/	Thr57-Ser	x	QnrB1	x	QnrD	x
12-2428	Kentucky	24	28	12	0.064	/	/	Thr57-Ser	x	x	x	QnrD	x
S13BD01303	KENTUCKY	7	7			Ser83-Phe / Asp87-Tyr	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x
S13BD01174	KENTUCKY	7	10				/	Thr57-Ser / Ser80-Ile	x	x	x	x	x
S13BD01021	KENTUCKY	7	11			Ser83-Phe, Asp87-Gly		Thr57-Ser, Ser80-Ile	x	x	x	x	x
S13BD01007	KENTUCKY	7	10			Ser83-Phe, Asp87-Tyr		Thr57-Ser, Ser80-Ile	x	x	x	x	x
S13BD00968	KENTUCKY	7	10			Ser83-Phe, Asp87-Tyr		Thr57-Ser, Ser80-Ile	x	x	x	x	x
S13BD01059	KENTUCKY	7	11			Ser83-Phe, Asp87-Tyr		Thr57-Ser, Ser80-Ile	x	x	x	x	x
S13BD00344	KENTUCKY	7	10			Ser83-Phe, Asp87-Tyr		Thr57-Ser, Ser80-Ile	x	x	x	x	x
S13BD00123	KENTUCKY	7	11						x	x	x	x	x
S13BD00442	KENTUCKY	7	12			Ser83-Phe, Asp87-Tyr		Thr57-Ser, Ser80-Ile	x	x	x	x	x
S13BD00714	KENTUCKY	7	10			Ser83-Phe, Asp87-Asn		Thr57-Ser, Ser80-Ile	x	x	x	x	x
S13BD00605	KENTUCKY	7	12			Ser83-Phe, Asp87-Tyr		Thr57-Ser, Ser80-Ile	x	x	x	x	x
S13BD00670	KENTUCKY	7	10			Ser83-Phe, Asp87-Asn		Thr57-Ser, Ser80-Ile	x	x	x	x	x
S13BD00145	KENTUCKY	7	11			Ser83-Phe, Asp87-Tyr	/	Thr57-Ser, Ser80-Ile	x	x	x	x	x
S13BD00644	KENTUCKY	7	10			Ser83-Phe, Asp87-Asn		Thr57-Ser, Ser80-Ile	x	x	x	x	x
S13BD00254	KENTUCKY	7	9			Ser83-Phe, Asp87-Tyr		Thr57-Ser, Ser80-Ile	x	x	x	x	x
S13BD00534	KENTUCKY	7	13			Ser83-Phe, Asp87-Tyr		Thr57-Ser, Ser80-Ile	x	x	x	x	x
09-02825	Kentucky	7	7			Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x
09-00541	Kentucky	7	9			Ser83-Phe / Asp87-Tyr	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x
09-01090	Kentucky	7	7			Ser83-Phe / Asp87-Asn	/	Thr57-Ser /					

								Ser80-Ile							
09-03735	Kentucky	7	10			Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile							
09-01288	Kentucky	7	7			Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile							
09-02322	Kentucky	7	10			Ser83-Phe / Asp87-Gly	/	Thr57-Ser / Ser80-Ile							
09-02595	Kentucky	7	7												
09-02982	Kentucky	7	9			Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile							
09-03867	Kentucky	7	10			/	/	Thr57-Ser / Ser80-Ile							
09-01341	Kentucky	7	7	> 256	16	Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile							
09-02454	Kentucky	7	10			Ser83-Phe / Asp87-Tyr	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x		
09-03800	Kentucky	7	10	> 256	16	Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile							
09-03455	Kentucky	7	9			Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile							
09-03913	Kentucky	7	10	> 256	16	Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile							
10-03827	Kentucky	7	7												
10-04294	Kentucky	7	7			Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile							
10-00860	Kentucky	7	9			Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile							
10-00865	Kentucky	7	9			Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile							
10-03585	Kentucky	7	10			Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile							
10-03795	Kentucky	7	10			Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile							
10-05568	Kentucky	7	11												
12-4130	Kentucky	7	11			Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	x	
12-0575	Kentucky	7	11						x	x	x	x	x	x	
12-4685	Kentucky	7	11						x	x	x	x	x	x	

12-4901	Kentucky	7	11					x	x	x	x	x	x
12-3804	Kentucky	7	14					x	x	x	x	x	x
12-3908	Kentucky	7	12					x	x	x	x	x	x
12-4420	Kentucky	7	11					x	x	x	x	x	x
12-4714	Kentucky	7	11					x	x	x	x	x	x
12-4016	Kentucky	7	12					x	x	x	x	x	x
12-3855	Kentucky	7	12					x	x	x	x	x	x
12-3835	Kentucky	7	12					x	x	x	x	x	x
12-3912	Kentucky	7	13					x	x	x	x	x	x
12-4120	Kentucky	7	12					x	x	x	x	x	x
12-4671	Kentucky	7	11					x	x	x	x	x	x
S13BD02611	KENTUCKY	7	11					x	x	x	x	x	x
S13BD04007	KENTUCKY	7	11	Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile		x	x	x	x	x	x
S13BD04130	KENTUCKY	7	10					x	x	x	x	x	x
S13BD03831	KENTUCKY	7	11	Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile		x	x	x	x	x	x
S13BD02185	KENTUCKY	7	12	Ser83-Phe / Asp87-Tyr	/	Thr57-Ser / Ser80-Ile		x	x	x	x	x	x
S13BD03185	KENTUCKY	7	7					x	x	x	x	x	x
S13BD03303	KENTUCKY	7	10					x	x	x	x	x	x
S13BD03297	KENTUCKY	7	7					x	x	x	x	x	x
S13BD03353	KENTUCKY	7	10					x	x	x	x	x	x
S13BD01311	KENTUCKY	7	7	Ser83-Phe / Asp87-Gly	/	Thr57-Ser / Ser80-Ile		x	x	x	x	x	x
S13BD02963	KENTUCKY	7	9					x	x	x	x	x	x
S13BD01823	KENTUCKY	7	11					x	x	x	x	x	x
S13BD03937	KENTUCKY	7	9					x	x	x	x	x	x
S13BD03351	KENTUCKY	7	10					x	x	x	x	x	x
S13BD02775	KENTUCKY	7	11					x	x	x	x	x	x
S13BD01886	KENTUCKY	7	11					x	x	x	x	x	x
S13BD01392	KENTUCKY	7	9	Ser83-Phe / Asp87-Tyr	/	Thr57-Ser / Ser80-Ile		x	x	x	x	x	x

S13BD01383	KENTUCKY	7	11			Ser83-Phe / Asp87-Tyr	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	x
S13BD01636	KENTUCKY	7	9			Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	x
S13BD04413	KENTUCKY	7	11						x	x	x	x	x	x
S13BD02873	KENTUCKY	7	11						x	x	x	x	x	x
S13BD02807	KENTUCKY	7	11						x	x	x	x	x	x
S13BD04304	KENTUCKY	7	9						x	x	x	x	x	x
S13BD02505	KENTUCKY	7	11						x	x	x	x	x	x
S13BD02738	KENTUCKY	7	10						x	x	x	x	x	x
S13BD04229	KENTUCKY	7	11						x	x	x	x	x	x
S13BD04371	KENTUCKY	7	10						x	x	x	x	x	x
S13BD01432	KENTUCKY	7	11			Ser83-Phe / Asp87-Tyr	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	x
S13BD02333	KENTUCKY	7	11						x	x	x	x	x	x
S13BD01978	KENTUCKY	7	11						x	x	x	x	x	x
S14BD00059	KENTUCKY	7	12						x	x	x	x	x	x
S13BD02559	KENTUCKY	7	11						x	x	x	x	x	x
S13BD01514	KENTUCKY	7	9			Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	x
S13BD02338	KENTUCKY	7	11						x	x	x	x	x	x
S13BD02132	KENTUCKY	7	7						x	x	x	x	x	x
S13BD02973	MONOPHASIC TYPHIMURIUM 1.4.[5].12:I:-	7	25						x	x	x	x	x	x
10-05266	Newport	7	25	> 256	0.125	/		Thr57-Ser	x	x	x	x	x	x
10-01432	Newport	7	26	> 256	0.094	Asp87-Gly	/	Thr57-Ser	x	x	x	x	x	x
10-05015	Newport	7	26	> 256	0.094	/		Thr57-Ser	x	x	x	x	x	x
10-05267	Newport	7	27	> 256	0.94	/		Thr57-Ser	x	x	x	x	x	x
10-01547	Newport	7	27	> 256	0.19	Ser83-Phe	/	Thr57-Ser	x	x	x	x	x	x
10-05564	Newport	7	27	> 256	0.25	Ser83-Phe / Asp87-Asn		Thr57-Ser	x	x	x	x	x	x
11-1224	Newport	7	21	>256	0.25	Ser83-Phe	/	The57-Ser	x	x	x	x	x	x
11-4818	Newport	13	29	>256	0.25	/	/	The57-Ser	x	x	x	x	QnrS1	x

09-04724	Newport	17	30			Ser83-Phe	/	Thr57-Ser							
11-0714	Paratyphi A	7	21	>256	0.5	Ser83-Phe	/	The57-Ser	x	x	x	x	x	x	
11-4101	Paratyphi A	7	24	>256	0.5	Ser83-Phe	/	The57-Ser	x	x	x	x	x	x	
11-3627	Paratyphi A	7	24	>256	0.5	Ser83-Phe	/	The57-Ser	x	x	x	x	x	x	
09-00260	Paratyphi A	7	21												
09-00293	Paratyphi A	7	22			Asp87-Tyr	/	The57-Ser							
09-01017	Paratyphi A	7	21						x	x	x	x	x	x	
09-03762	Paratyphi A	7	22												
09-01884	Paratyphi A	7	22			/	/	Thr57-Ser	x	x	x	x	x	x	
10-01691	Paratyphi A	7	21			Ser83-Phe	/	Thr57-Ser							
10-00245	Paratyphi A	7	21			Ser83-Phe	/	Thr57-Ser							
10-02191	Paratyphi A	7	22						x	x	x	x	x	x	
10-03665	Paratyphi A	7	22												
10-00222	Paratyphi A	7	22			Ser83-Phe	/	Thr57-Ser							
10-01854	Paratyphi A	7	22			Ser83-Phe	/	Thr57-Ser							
12-4934	Paratyphi A	7	21			Ser83-Phe	/	Thr57-Ser	x	x	x	x	x	x	
12-4861	Paratyphi A	7	21			Ser83-Phe	/	Thr57-Ser	x	x	x	x	x	x	
12-3305	Paratyphi A	7	23			Ser83-Phe	/	Thr57-Ser	x	x	x	x	x	x	
12-4753	Paratyphi A	7	22			Ser83-Phe	/	Thr57-Ser	x	x	x	x	x	x	
12-3257	Paratyphi A	7	24			Ser83-Phe	/	Thr57-Ser	x	x	x	x	x	x	
12-2995	Paratyphi A	7	24			Ser83-Phe	/	Thr57-Ser	x	x	x	x	x	x	
12-1228	Paratyphi A	7	26			Ser83-Phe	/	Thr57-Ser	x	x	x	x	x	x	
12-0600	Paratyphi A	7	29			/	/	/	x	x	x	x	x	x	
12-3401	Paratyphi A	7	23			Ser83-Phe	/	Thr57-Ser	x	x	x	x	x	x	
12-2686	Paratyphi A	7	22			Ser83-Phe	/	Thr57-Ser	x	x	x	x	x	x	
12-0625	Paratyphi A	7	23			Ser83-Phe	/	Thr57-Ser	x	x	x	x	x	x	
S13BD01211	PARATYPHI A	7	21			Ser83-Tyr	/	/	x	x	x	x	x	x	
S13BD02980	PARATYPHI A	7	23						x	x	x	x	x	x	
10-02280	Paratyphi B	7	20	> 256	0.5	Ser83-Phe	/	/	x	x	x	x	x	x	
09-00178	Paratyphi B	7	24												
09-00179	Paratyphi B	7	25												

09-00832	Paratyphi B	7	25							x	x	x	x	x	x
09-02327	Paratyphi B	7	25				/	/							
09-00775	Paratyphi B	7	20												
09-02080	Paratyphi B	7	24			/	/	/		x	x	x	x	x	x
09-02510	Paratyphi B	7	23												
09-01163	Paratyphi B	7	23												
09-01654	Paratyphi B	7	24	> 256	0,25	Ser83-Phe	/	/							
09-01315	Paratyphi B	7	25	> 256	0,125	Asp87-Tyr	/	/							
09-02822	Paratyphi B	7	28			Asp87-Tyr	/	/							
S13BD03047	PARATYPHI B VAR. L(+) TARTRATE+	7	21			Asp87-Tyr	/			x	x	x	x	x	x
S13BD04078	PARATYPHI B VAR. L(+) TARTRATE+	7	26			Asp87-Gly	/	/		x	x	x	x	x	x
S13BD02529	PARATYPHI B VAR. L(+) TARTRATE+	7	28			Ser83-Tyr	/	/		x	x	x	x	x	x
S13BD01852	PARATYPHI B VAR. L(+) TARTRATE+	7	25			Ser83-Phe	/	/		x	x	x	x	x	x
12-0923	Paratyphi B var.Java	7	22			Asp87-Gly	/	/		x	x	x	x	x	x
12-0617	Paratyphi B var.Java	7	21			Ser83-Phe	/	/		x	x	x	x	x	x
12-1485	Paratyphi B var.Java	7	25			Asp87-Gly	/	/		x	x	x	x	x	x
10-03432	Paratyphi C	7	29												
11-2820	Schwarzengrund	7	25							x	x	x	x	x	x
S13BD00360	STANLEY	7	23			Asp87-Tyr	/	The57-Ser		x	x	x	x	x	x
S13BD00293	STANLEY	7	24							x	x	x	x	x	x
S13BD00779	STANLEY	7	24			Asp87-Tyr	/	The57-Ser		x	x	x	x	x	x
S13BD01154	STANLEY	7	24			Asp87-Tyr	/	The57-Ser		x	x	x	x	x	x
S13BD00396	STANLEY	7	21			Asp87-Tyr	/	The57-Ser		x	x	x	x	x	x

09-03520	Typhi	7	15	> 256	2 I	Ser83-Tyr / Glu133-Gly	/	/	x	x	x	x	QnrS1	x
10-02558	Typhi	7	20	> 256	0.5	Ser83-Tyr		/	x	x	x	x	x	x
10-04077	Typhi	7	21	> 256	10	Ser83-Phe		/	x	x	x	x	x	x
10-00423	Typhi	7	21	> 256	0.25	Ser83-Phe / Asp87-Asn	/	Ser80-Ile	x	x	x	x	x	x
10-00779	Typhi	7	23	> 256	0.38	Ser83-Phe / Glu133-Gly	Ala57 4-Val	/	x	x	x	x	x	x
10-00783	Typhi	7	23	> 256	0.38	Ser83-Phe / Asp87-Asn	/	Ser80-Ile	x	x	x	x	x	x
10-05179	Typhi	7	25	> 256	0.25	Ser83-Phe	/	/	x	x	x	x	x	x
10-05284	Typhi	7	25	> 256	0.25	Ser83-Phe		/	x	x	x	x	x	x
10-00017	Typhi	7	27	12	0.032	/	/	/	x	x	x	x	x	x
11-3720	Typhi	7	24	>256	0.38	Ser83-Phe	/	/	x	x	x	x	x	x
11-4624	Typhi	7	22	>256	0.5	Ser83-Leu	/	/	x	x	x	x	x	x
11-4623	Typhi	7	21	>256	0.38	Ser83-Leu	/	/	x	x	x	x	x	x
11-0629	Typhi	7	7	>256	>32	Ser83-Phe / Asp87-Asn	/	Ser80-Ile	x	x	x	x	x	x
11-1028	Typhi	7	24	>256	0.38	Ser83-Tyr	/	/	x	x	x	x	x	x
11-2205	Typhi	7	23	>256	0.38	Ser83-Tyr	/	/	x	x	x	x	x	x
11-0020	Typhi	7	26	>256	0.19	Ser83-Phe	/	/	x	x	x	x	x	x
11-2823	Typhi	7	24	>256	0.38	Ser83-Phe	/	/	x	x	x	x	x	x
11-3756	Typhi	7	24	>256	0.38	Ser83-Phe	/	/	x	x	x	x	x	x
11-3151	Typhi	7	25	>256	0.75	Ser83-Phe	/	The57-Ser	x	x	x	x	x	x
11-3798	Typhi	7	16	>256	3	Asp87-Tyr	/	/	x	x	x	x	QnrS1	x
09-03299	Typhi	7	23			Ser83-Phe / Glu133-Gly	/	/						
09-01674	Typhi	7	29			Glu133-Gly	/	/						
09-03654	Typhi	7	15			Ser83-Tyr / Glu133-Gly	/	/						
09-04716	Typhi	7	23			Ser83-Phe	/	/						
09-01796	Typhi	7	25			Glu133-Gly	/	/						
09-01876	Typhi	7	26			Glu133-Gly	/	/						
09-01904	Typhi	7	22											
09-02031	Typhi	7	7			Ser83-Phe / Asp87-Asn / Glu133-Gly	/	Ser80-Ile						
09-02066	Typhi	7	23											
09-03381	Typhi	7	22			Glu133-Gly	/	/						

09-03826	Typhi	7	23												
09-03205	Typhi	7	24	> 256	0,25	Ser83-Phe / Glu133-Gly	/	/							
09-01345	Typhi	7	11			Ser83-Phe / Asp87-Asn	/	Ser80-Ile							
10-00424	Typhi	7	21	> 256	0,25	Ser83-Phe / Glu133-Gly	/	/							
10-00135	Typhi	7	22			Ser83-Tyr / Glu133-Gly	/	/							
10-00390	Typhi	7	22			Ser83-Phe / Glu133-Gly	/	/							
10-00879	Typhi	7	22			Ser83-Phe / Glu133-Gly	/	/							
10-01414	Typhi	7	22			Ser83-Phe / Glu133-Gly	/	/	x	x	x	x	x	x	
10-03592	Typhi	7	23			Ser83-Phe / Glu133-Gly	/	/							
10-04488	Typhi	7	23												
10-01788	Typhi	7	23			Ser83-Tyr / Glu133-Gly	/	/							
10-01747	Typhi	7	23			Ser83-Phe / Glu133-Gly	/	/							
10-00714	Typhi	7	23			Ser83-Phe / Glu133-Gly	/	/							
10-02140	Typhi	7	23			Ser83-Phe / Glu133-Gly	/	/							
10-00616	Typhi	7	26			Ser83-Phe / Glu133-Gly	/	/							
10-02253	Typhi	7	27			Asp87-Asn / Glu133-Gly	/	/							
10-05279	Typhi	7	32												
12-3453	Typhi	7	22						x	x	x	x	x	x	
12-0404	Typhi	7	31						x	x	x	x	x	x	
12-0759	Typhi	7	9						x	x	x	x	x	x	
12-3287	Typhi	7	24						x	x	x	x	x	x	
12-3086	Typhi	7	29						x	x	x	x	x	x	
12-4498	Typhi	7	23						x	x	x	x	x	x	
12-3666	Typhi	7	29						x	x	x	x	x	x	
S13BD01103	TYPHI	7	26						x	x	x	x	x	x	
S13BD03481	TYPHI	7	23						x	x	x	x	x	x	
S14BD00076	TYPHI	7	23						x	x	x	x	x	x	
S13BD00683	TYPHI	7	24						x	x	x	x	x	x	
S13BD02880	TYPHI	7	23						x	x	x	x	x	x	
10-03081	Typhimurium	7	9	> 256	12	Ser83-Phe / Asp87-Asn	/	Ser80-Arg	x	x	x	x	x	x	
10-04600	Typhimurium	7	24	> 256	0.19	Ser83-Phe / Asp87-Asn	/	Thr57-Ser /	x	x	x	x	x	x	

								Ser80-Ile						
10-04857	Typhimurium	7	24	> 256	0.125	Ser83-Phe / Glu133-Gly	/	/	x	x	x	x	x	x
10-01783	Typhimurium	7	24	> 256	0.19	Asp87-Asn	/	/	x	x	x	x	x	x
10-02407	Typhimurium	7	24	> 256	0.125	Asp87-Asn	/	/	x	x	x	x	x	x
10-04105	Typhimurium	7	24	> 256	0.19	Ser83-Phe / Asp87-Tyr	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	x
10-04107	Typhimurium	7	24	> 256	0.125	Asp87-Asn	/	/	x	x	x	x	x	x
10-03944	Typhimurium	7	24	> 256	0.19	Asp87-Asn	/	/	x	x	x	x	x	x
10-02666	Typhimurium	7	24	> 256	0.38	Ser83-Phe	/	/	x	x	x	x	x	x
10-04971	Typhimurium	7	25	> 256	0.19	Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	x
10-04082	Typhimurium	7	25	> 256	0.125	Asp87-Asn	/	/	x	x	x	x	x	x
10-04628	Typhimurium	7	25	> 256	0.19	Ser83-Phe / Asp87-Asn	/	Thr57-Ser / Ser80-Ile	x	x	x	x	x	x
10-03902	Typhimurium	7	25	> 256	0.19	Asp87-Asn	/	/	x	x	x	x	x	x
10-02560	Typhimurium	7	25	> 256	0.094	Asp87-Asn	/	/	x	x	x	x	x	x
10-04439	Typhimurium	7	26	> 256	0.19	/	/	Thr57-Ser	x	x	x	x	x	x
10-03872	Typhimurium	7	26	> 256	0.19	Asp87-Asn	/	/	x	x	x	x	x	x
10-04398	Typhimurium	7	28	> 256	0.19	Ser83-Phe	/	/	x	x	x	x	x	x
11-0699	Typhimurium	7	30	8	0.023		/		x	x	x	x	x	x
11-3330	Typhimurium	7	27	>256	0.19	Asp87-Asn	/	/	x	x	x	x	x	x
11-2789	Typhimurium	7	24	>256	0.38	Ser83-Tyr	/	/	x	x	x	x	x	x
11-3220	Typhimurium	7	25	>256	0.125	Asp87-Gly	/	/	x	x	x	x	x	x
11-0008	Typhimurium	7	24	>256	0.19	Asp87-Asn	/	/	x	x	x	x	x	x
11-3709	Typhimurium	7	10	>256	>32	Ser83-Phe / Asp87-Asn	/	The57-Ser / Ser80-Ile	x	x	x	x	x	x
11-3729	Typhimurium	7	23	>256	4	Asp87-Tyr	/	/	x	x	x	x	x	x
11-4775	Typhimurium	7	24	>256	0.25	Ser83-Phe	/	/	x	x	x	x	x	x
11-2977	Typhimurium	7	26	>256	0.125	Asp87-Gly	/	/	x	x	x	x	x	x
11-1208	Typhimurium	7	24	>256	0.38	Ser83-Tyr	/	/	x	x	x	x	x	x
11-0587	Typhimurium	7	25	>256	0.25	Asp87-Asn	/	/	x	x	x	x	x	x
11-1400	Typhimurium	7	26	>256	0.19	Asp87-Asn	/	/	x	x	x	x	x	x
11-3725	Typhimurium	7	26	>256	0.19	Asp87-Asn	/	/	x	x	x	x	x	x

11-4069	Typhimurium	7	25	>256	0.125	Asp87-Asn	/	/	x	x	x	x	x	x
11-0210	Typhimurium	7	27	>256	0.19	Asp87-Asn	/	/	x	x	x	x	x	x
11-3712	Typhimurium	10	25	>256	0.38	/	/	/	x	x	x	x	x	x
11-3815	Typhimurium	11	25	64	0.25	/	/	/	x	x	x	x	x	x
11-2914	Typhimurium	13	24	48	0.5	/	/	/	x	x	x	x	QnrS1	x
11-3608	Typhimurium	14	23	48	0.5	/	/	/	x	x	x	x	x	x
11-3088	Typhimurium	15	29	48	0.64	/	/	/	x	x	x	x	x	x
11-3594	Typhimurium	15	22	32	0.38	/	/	/	x	x	x	x	x	x
09-04089	Typhimurium	7	28	32	0,016	/	/	/						
09-01503	Typhimurium	7	25	> 256	0,094	Ser83-Phe	/	/	x	x	x	x	x	x
09-01265	Typhimurium	7	28			Asp87-Asn	/	/						
09-04680	Typhimurium	7	25	> 256	8	Asp87-Asn	/	/						
09-02182	Typhimurium	7	25			Asp87-Asn	/	/						
09-02914	Typhimurium	7	26			Ser83-Tyr	/	/	x	x	x	x	x	x
09-00086	Typhimurium	7	32											
10-03563	Typhimurium	7	9											
10-03921	Typhimurium	7	24											
10-03263	Typhimurium	7	24			Asp87-Asn	/	/						
10-03695	Typhimurium	7	26			Asp87-Asn	/	/						
11-4576	Typhimurium	7	27						x	x	x	x	x	x
12-2435	Typhimurium	7	27						x	x	x	x	x	x
12-0356	Typhimurium	7	28						x	x	x	x	x	x
12-4395	Typhimurium	7	23						x	x	x	x	x	x
12-2274	Typhimurium	7	28						x	x	x	x	x	x
12-3216	Typhimurium	7	27						x	x	x	x	x	x
12-3405	Typhimurium	7	26						x	x	x	x	x	x
12-3331	Typhimurium	7	23						x	x	x	x	x	x
12-3215	Typhimurium	7	27						x	x	x	x	x	x
12-2412	Typhimurium	7	26						x	x	x	x	x	x
12-3161	Typhimurium	7	27						x	x	x	x	x	x
12-3202	Typhimurium	7	30						x	x	x	x	x	x

12-3443	Typhimurium	7	24						x	x	x	x	x	x	
12-3068	Typhimurium	7	29						x	x	x	x	x	x	
12-4613	Typhimurium	7	29			Asp87-Asn	/	/	x	x	x	x	x	x	
12-3486	Typhimurium	7	28			Asp87-Asn	/	/	x	x	x	x	x	x	
12-3579	Typhimurium	7	29			Asp87-Tyr	/	/	x	x	x	x	x	x	
12-3219	Typhimurium	7	30			Asp87-Asn	/	/	x	x	x	x	x	x	
S13BD01820	TYPHIMURIUM	7	27			Asp87-Asn	/	/	x	x	x	x	x	x	
S13BD02846	TYPHIMURIUM	7	27			Asp87-Tyr	/	/	x	x	x	x	x	x	
S13BD03382	TYPHIMURIUM	7	28			Asp87-Asn	/	/	x	x	x	x	x	x	
S13BD03187	TYPHIMURIUM	7	29			Asp87-Asn	/	/	x	x	x	x	x	x	
S13BD03710	TYPHIMURIUM	7	27			Ser83-Tyr	/	/	x	x	x	x	x	x	
S13BD02987	TYPHIMURIUM	7	26			Asp87-Asn	/	/	x	x	x	x	x	x	
S13BD02153	TYPHIMURIUM	7	28						x	x	x	x	x	x	
S13BD02805	TYPHIMURIUM	7	28						x	x	x	x	x	x	
S13BD00165	TYPHIMURIUM	7	28						x	x	x	x	x	x	
S13BD03295	TYPHIMURIUM	7	29						x	x	x	x	x	x	
S13BD00411	TYPHIMURIUM	7	29						x	x	x	x	x	x	
S13BD02183	TYPHIMURIUM	7	28						x	x	x	x	x	x	
S13BD02541	TYPHIMURIUM	7	25						x	x	x	x	x	x	
S13BD02359	TYPHIMURIUM	7	24						x	x	x	x	x	x	
S13BD01084	TYPHIMURIUM	7	28						x	x	x	x	x	x	
S13BD03638	TYPHIMURIUM	7	25						x	x	x	x	x	x	
S13BD00711	TYPHIMURIUM	7	24						x	x	x	x	x	x	
S13BD03294	TYPHIMURIUM	7	29						x	x	x	x	x	x	
S13BD03044	TYPHIMURIUM	7	30						x	x	x	x	x	x	
12-3182	Typhimurium [4,5:i:-]	7	28						x	x	x	x	x	x	
11-2705	Typhimurium var. Copenhagen	7	22												
10-02095	Virchow	7	23	> 256	0.19	Ser83-Phe	/	/	x	x	x	x	x	x	
10-02893	Virchow	7	24	> 256	0.19	Ser83-Tyr	/	/	x	x	x	x	x	x	

10-00448	Virchow	7	25	> 256	0.19	Asp87-Tyr	/	/	x	x	x	x	x	x
10-01033	Virchow	7	26	> 256	0.094	Asp87-Tyr	/	/	x	x	x	x	x	x
10-04354	Virchow	7	28	> 256	0.094	Asp87-Tyr	/	/	x	x	x	x	x	x
11-1308	Virchow	7	22	>256	0.25	Ser83-Phe	/	/	x	x	x	x	x	x
11-3606	Virchow	7	25	>256	0.19	Asp87-Tyr	/	/	x	x	x	x	x	x
11-2699	Virchow	7	26	>256	0.125	Asp87-Tyr	/	/	x	x	x	x	x	x
11-3060	Virchow	7	27	>256	0.19	Asp87-Tyr	/	/	x	x	x	x	x	x
09-00824	Virchow	7	26											
09-00853	Virchow	7	25											
09-01343	Virchow	7	26			Asp87-Tyr	/	/	x	x	x	x	x	x
09-01416	Virchow	7	24			/	/	/	x	x	x	x	x	x
09-04304	Virchow	7	25			Asp87-Tyr	/	/						
09-02002	Virchow	7	26											
09-03580	Virchow	7	27			Asp87-Tyr	/	/						
10-00329	Virchow	7	26			Asp87-Tyr	/	/						
12-3542	Virchow	7	25						x	x	x	x	x	x
12-3430	Virchow	7	27						x	x	x	x	x	x
12-3120	Virchow	7	27						x	x	x	x	x	x
12-0755	Virchow	7	25						x	x	x	x	x	x
12-4260	Virchow	7	27						x	x	x	x	x	x
12-0722	Virchow	7	29						x	x	x	x	x	x
S13BD01210	VIRCHOW	7	26						x	x	x	x	x	x
S13BD02234	VIRCHOW	7	27			Asp87-Tyr	/	/	x	x	x	x	x	x
S13BD00737	VIRCHOW	7	30			Asp87-Tyr	/	/	x	x	x	x	x	x
S13BD03661	VIRCHOW	7	28			Asp87-Tyr	/	/	x	x	x	x	x	x
S13BD03746	VIRCHOW	7	26			Asp87-Tyr	/	/	x	x	x	x	x	x
S13BD02666	VIRCHOW	7	27						x	x	x	x	x	x
S13BD03138	VIRCHOW	7	24						x	x	x	x	QnrS2	x

Table S5. Resistance against third-generation cephalosporins.

Id	Serovar	Amp	Ac	Ct	Cx	CCT	Fox	FEP	FEP +C	CAZ	CAZ+ C	MEM	IMI	IMI +E
09-01903	Enteritidis	7	23	ND	11	31	29	20	34	25	32	35	34	34
09-00178	Paratyphi B	7	17	ND	7	31	28	12	32	19	32	34	36	35
09-00179	Paratyphi B	7	18	ND	7	31	29	12	32	19	30	35	34	34
09-00832	Paratyphi B	7	17	ND	7	28	28	11	31	19	28	34	36	36
09-02327	Paratyphi B	7	14	ND	7	ND	ND	ND	ND	ND	ND	ND	ND	ND
09-00775	Paratyphi B	7	21	ND	10	ND	ND	ND	ND	ND	ND	ND	ND	ND
09-04214	Paratyphi B	7	23	ND	12	ND	ND	ND	ND	ND	ND	ND	ND	ND
09-04182	Paratyphi B	7	23	ND	13	ND	ND	ND	ND	ND	ND	ND	ND	ND
09-04224	Paratyphi B	7	23	ND	13	ND	ND	ND	ND	ND	ND	ND	ND	ND
09-02080	Paratyphi B	7	22	ND	15	33	28	23	33	14	30	33	32	33
09-01327	Paratyphi B	7	7	ND	17	24	20	34	34	13	26	34	35	35
09-02281	Paratyphi B	16	22	ND	18	32	31	26	36	17	32	34	34	33
09-03124	Typhimurium	7	22	ND	8	31	29	20	34	24	29	33	34	35
09-02882	Typhimurium	7	21	ND	11	ND	ND	ND	ND	ND	ND	ND	ND	ND
09-02767	Typhimurium	7	20	ND	12	31	29	20	35	23	31	35	35	35
09-02924	Typhimurium	7	22	ND	12	ND	ND	ND	ND	ND	ND	ND	ND	ND
09-02533	Typhimurium var. Copenhagen	7	20	ND	12	30	26	14	31	21	27	32	29	30
10-05018	Typhimurium	7	21	ND	10	31	27	15	31	19	26	33	31	31
10-00073	Enteritidis	7	24	ND	12	32	26	17	32	21	31	34	35	35
10-00013	Paratyphi B	7	22	ND	13	ND	ND	ND	ND	ND	ND	ND	ND	ND
10-00285	Paratyphi B	7	22	ND	13	ND	ND	ND	ND	ND	ND	ND	ND	ND
10-02076	Typhimurium	7	7	ND	13	ND	ND	ND	ND	ND	ND	ND	ND	ND
10-02873	Infantis	7	22	ND	14	ND	ND	ND	ND	ND	ND	ND	ND	ND
10-04387	Infantis	7	23	ND	15	ND	ND	ND	ND	ND	ND	ND	ND	ND
10-02095	Virchow	7	23	ND	16	ND	ND	ND	ND	ND	ND	ND	ND	ND
10-05307	Derby	13	17	ND	19	32	25	32	32	25	27	33	28	27
11-2885	Agona	7	15	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
11-3672	Concord	7	20	ND	7	32	26	12	33	9	28	34	31	31
11-1704	Concord	7	20	ND	7	ND	ND	ND	ND	ND	ND	ND	ND	ND
11-1692	Concord	7	19	ND	7	ND	ND	ND	ND	ND	ND	ND	ND	ND
11-0165	Concord	7	18	ND	7	ND	ND	ND	ND	ND	ND	ND	ND	ND
11-3705	Enteritidis	7	20	ND	7	ND	ND	ND	ND	ND	ND	ND	ND	ND
11-4075	Enteritidis	7	7	ND	7	ND	ND	ND	ND	ND	ND	ND	ND	ND
11-4200	Enteritidis	7	7	ND	7	34	27	31	32	27	33	34	32	33

11-3774	Enteritidis	7	7	ND	7	ND	ND	ND	ND	ND	ND	ND	ND	ND
11-4366	Kentucky	7	12	ND	7	30	25	28	33	25	29	34	29	30
11-2754	Kentucky	7	13	ND	10	ND	ND	ND	ND	ND	ND	ND	ND	ND
11-4306	Typhimurium	7	21	ND	11	29	28	17	36	20	31	34	33	34
11-0827	Derby	7	7	ND	12	13	7	26	29	9	17	34	28	28
11-2915	Kentucky	7	7	ND	13	16	11	28	33	10	17	35	26	26
11-3991	Kentucky	7	7	ND	17									
11-3059	Typhimurium	7	19	ND	17	32	29	26	33	14	32	32	32	32
11-1464	Typhimurium	7	15	ND	17									
12-3591	Infantis	7	27	7	ND	31	27	19	31	24	32	33	35	34
12-4502	Infantis	7	26	7	ND	32	27	24	32	23	29	35	31	32
12-3730	Infantis	7	23	7	ND	29	27	16	32	20	28	34	32	33
12-3542	Virchow	7	22	7	7	32	29	22	34	16	30	35	30	31
12-0401	Concord	7	21	ND	7	30	26	11	32	9	27	36	32	33
12-0696	Concord	7	21	ND	7	31	24	11	32	9	29	35	30	30
12-0697	Concord	7	21	ND	7	31	28	12	35	9	29	36	31	31
12-3301	Concord	7	14	ND	7	30	26	14	34	9	33	35	34	34
12-1288	Enteritidis	7	25	ND	7	32	30	10	36	11	31	36	31	32
12-2376	Enteritidis	7	11	ND	12	33	28	34	34	30	31	35	32	32
12-1493	Enteritidis	7	7	ND	13	ND	ND	ND	ND	ND	ND	ND	ND	ND
12-1831	Enteritidis	7	22	ND	14	32	27	31	32	29	30	34	28	28
12-2748	Typhimurium	7	22	ND	15	30	26	28	28	22	25	31	21	27
S13BD03130	DUBLIN	25	26	7	ND									
S13BD03795	INFANTIS	7	22	7	ND	32	27	24	34	24	31	35	33	33
S13BD03471	MONOPHASIC TYPHIMURIUM 1.4.[5].12:I:-	7	20	7	ND	31	30	20	35	23	30	36	32	32
S13BD01820	TYPHIMURIUM	7	15	7	ND	32	30	16	33	22	31	37	33	34
S13BD01263	INFANTIS	7	21	10	ND	32	27	24	32	23	30	36	31	32
S13BD03628	INFANTIS	7	25	11	ND	32	28	23	34	23	28	34	31	30
S13BD02584	INFANTIS	7	25	12	ND	31	26	24	34	23	31	34	34	34
S13BD02611	KENTUCKY	7	7	12	ND	13	9	29	29	12	14	34	29	29
S13BD01681	NEWPORT	7	7	13	ND	15	11	31	33	13	19	36	28	28
S13BD02836	TYPHIMURIUM	7	21	13	ND	31	25	21	32	11	22	34	31	29
S13BD03778	INFANTIS	7	8	15	ND	20	11	31	31	13	20	36	30	30
S13BD03298	TYPHIMURIUM	7	22	16	ND	32	30	22	34	26	30	35	30	31
S13BD02692	TYPHIMURIUM	7	11	16	ND	24	20	30	25	18	21	35	33	34

S13BD02842	TYPHIMURIUM	7	21	16	ND	32	28	23	35	27	31	35	32	32
S13BD02824	TYPHIMURIUM	7	25	16	ND	32	29	25	34	28	31	35	31	32
S13BD02810	TYPHIMURIUM	7	24	17	ND	32	29	26	34	26	30	34	30	30
S13BD02386	TYPHIMURIUM	7	24	18		32	28	25	35	25	30	35	33	33

Abbreviations:

FEP30, Cefepime 30 µg (+/-10 µg calvulanic acid; CCT, cefotaxime 30µg + clavulanic acid; CTX, cefotaxime 30 µg; FOX, Cefoxitin 30 µg, CAZ, ceftazidime (+10 µg clavulanic acid); IMI, imipenem (+750 µg EDTA); MEM, meropenem; ND, not determined.