Supplemental material

Table S1. Primer characteristics

Name	Gene	Sequence	Size product (bp)	Reference
CTX-M-F	CTX-M-gr25	ATG TGC AGY ACC AGT AAR GTK ATG GC		(1)
CTX-M-R	CTX-M-gr25	TGG GTR AAR TAR GTS ACC AGA AYS AGC GG	592	
CTX-M-1g Fw	CTX-M-gr1	CCC ATG GTT AAA AAA TCA CTG C		(2)
CTX-M-1g Rv	CTX-M-gr1	CAG CGC TTT TGC CGT CTA AG	~1000	
CTX-M-2-F	CTX-M-gr2	ATG ATG ACT CAG AGC ATT CG		(3)
CTX-M-2-R	CTX-M-gr2	TGG GTT ACG ATT TTC GCC GC	865	
CTX-M-9F	CTX-M-gr9	TGG TGA CAA AGA GAG TGC AAC G		(4)
CTX-M-9R	CTX-M-gr9	TCA CAG CCC TTC GGC GAT	874	
CTX-M-9_{792}F	CTX-M-14-like	CTA TTT TAC CCA GCC GCA AC		(5)
CTX-M-9_{1029}R	CTX-M-14-like	GTT ATG GAG CCA CGG TTG AT	238	
TEM-F	TEM	GCG GAA CCC CTA TTT G		(1)
TEM-R	TEM	ACC AAT GCT TAA TCA GTG AG	964	
TEM-seq	TEM	GCC AAC TTA CTT CTG ACA ACG		(6)
SHV-F	SHV	TTA TCT CCC TGT TAG CCA CC		(1)
SHV-R	SHV	GAT TTG CTG ATT TCG CTC GG	795	
CMY-2-F	CMY	ATG ATG AAA AAA TCG TTA TGC TGC		(1)
CMY-2-R	CMY	GCT TTT CAA GAA TGC GCC AGG	1117	
CMY-F-838	CMY	TGG CGT ATT GGC GAT ATG TA		(6)
CMY-R-857	CMY	TAC ATA TCG CCA ATA CGC CA		
O1-GD2M-F	OXA-1-like	CAA CGG ATT AAC AGA AGC ATG GCT CG		(7)
O1-GD2M-R	OXA-1-like	GCT GTR AAT CCT GCA CCA GTT TTC CC	194	
O2-GD2M-F	OXA-2-like	GAC CAA GAT TTG CGA TCA GCA ATG CG		(7)
O2-GD2M-R	OXA-2-like	CYT TGA CCA AGC GCT GAT GTT CYA CC	254	
O10-GDM-F	OXA-10-like	CGC CAG AGA AGT TGG CGA AGT AAG		(7)
O10-GDM-R	OXA-10-like	GAA ACT CCA CTT GAT TAA CTG CGG	138	
*amp*C1-$_{71}$	Amp-Chromosomal	AAT GGG TTT TCT ACG GTC TG		(8)
*amp*C2-$_{120}$	Amp-Chromosomal	GGG CAG CAA ATG TGG AGC AA	191	

5 Table S3. Complete quantitative and genotypic characteristics

SampleID	CFU/g	F	Isolate	DogID	t-value	Species	Gene characterisation*
13S00698	1.96E+04	0.0000	13S00698-4	23A	1	*Escherichia coli*	*amp*C type WT
			13S00698-5	23A	1	*Escherichia coli*	*amp*C type 18
13S00699	6.60E+04	0.0000	13S00699-1	19A	1	*Escherichia coli*	CMY 2/61
			13S00699-2	19A	1	*Escherichia coli*	CMY 2/61
			13S00699-3	19A	1	*Escherichia coli*	TEM 1b&52StPaul
13S00700	9.43E+05	0.0003	13S00700-1	24B	1	*Escherichia coli*	TEM 1b
			13S00700-2	24B	1	*Escherichia coli*	TEM 1b
			13S00700-3	24B	1	*Escherichia coli*	TEM 1b
13S00701	8.49E+05	0.0016	13S00701-1	24A	1	*Escherichia coli*	TEM 1b
			13S00701-2	24A	1	*Escherichia coli*	TEM 1b
			13S00701-3	24A	1	*Escherichia coli*	TEM 1b
13S00702	1.73E+06	0.0020	13S00702-1	17A	1	*Escherichia coli*	*amp*C type 3
			13S00702-2	17A	1	*Escherichia coli*	*amp*C type 3
			13S00702-3	17A	1	*Escherichia coli*	*amp*C type 3
13S00703	9.62E+04	0.0000	13S00703-1	17B	1	*Escherichia coli*	*amp*C type 3
			13S00703-2	17B	1	*Escherichia coli*	*amp*C type 18
			13S00703-3	17B	1	*Escherichia coli*	*amp*C type 3
13S00705	1.33E+05	0.0006	13S00705-1	15B	1	*Escherichia coli*	TEM 1b&52c
			13S00705-2	15B	1	*Escherichia coli*	TEM 1b&52c
			13S00705-3	15B	1	*Escherichia coli*	TEM 1b&52c
13S00706	1.36E+05	0.0001	13S00706-1	15A	1	*Escherichia coli*	CTX-M 1/61
			13S00706-2	15A	1	*Escherichia coli*	TEM 1b
			13S00706-3	15A	1	*Escherichia coli*	CTX-M 1/61
13S00707	2.45E+07	0.0006	13S00707-1	15C	1	*Escherichia coli*	TEM 1b&52c
			13S00707-2	15C	1	*Escherichia coli*	CTX-M 1 TEM-1b
			13S00707-3	15C	1	*Escherichia coli*	CTX-M 14/18
			13S00707-4	15C	1	*Escherichia coli*	CMY 2/61
13S00710	9.43E+03	0.0066	13S00710-5	16A	1	*Escherichia coli*	CTX-M 1 TEM 1b
			13S00710-6	16A	1	*Escherichia coli*	CMY 2
13S00711	1.37E+06	0.0482	13S00711-1	16B	1	*Escherichia coli*	CTX-M 1 TEM 1b
			13S00711-2	16B	1	*Escherichia coli*	CTX-M 1 TEM 1b
			13S00711-3	16B	1	*Escherichia coli*	CTX-M 1 TEM 1b

13S00712	1.63E+06	0.0001	13S00712-1	18A	1	*Escherichia coli*	TEM 84
			13S00712-2	18A	1	*Escherichia coli*	CTX-M 15/28 OXA 1/30
			13S00712-3	18A	1	*Escherichia coli*	CTX-M 15/28 OXA 1/30 TEM 1varA
13S00713	5.66E+05	0.0001	13S00713-1	21B	1	*Escherichia coli*	CTX-M 1
			13S00713-2	21B	1	*Escherichia coli*	SHV 12/129
			13S00713-3	21B	1	*Escherichia coli*	SHV 12/129
			13S00713-4	21B	1	*Escherichia coli*	CTX-M 14/18
13S00715	1.92E+06	0.0007	13S00715-1	22A	1	*Escherichia coli*	SHV 12/129
			13S00715-2	22A	1	*Escherichia coli*	CTX-M 55/57/79
			13S00715-3	22A	1	*Escherichia coli*	CTX-M 55/57/79
13S00723	7.00E+05	0.0007	13S00723-1	10A	2	*Escherichia coli*	*amp*C type 3
			13S00723-2	10A	2	*Escherichia coli*	CTX-M 1/61
			13S00723-3	10A	2	*Escherichia coli*	*amp*C type 3
13S00738	3.85E+05	0.0129	13S00738-5	1A	3	*Escherichia coli*	CTX-M 14/18
			13S00738-6	1A	3	*Escherichia coli*	CTX-M 1/61 TEM 1b/104
			13S00738-7	1A	3	*Escherichia coli*	CTX-M 1/61 TEM 1b/104
13S00739	1.82E+04	0.0017	13S00739-4	1B	3	*Escherichia coli*	*amp*C type 3
			13S00739-5	1B	3	*Escherichia coli*	*amp*C type 3
13S00740	2.13E+04	0.0436	13S00740-5	5B	4	*Acinetobacter spp*	
			13S00740-6	5B	4	*Acinetobacter spp*	
			13S00740-7	5B	4	*Pseudomonas spp*	
13S00741	3.33E+05	0.0004	13S00741-4	12A	4	*Escherichia coli*	CTX-M 1/61
			13S00741-5	12A	4	*Escherichia coli*	SHV 12/129 TEM 1b
			13S00741-6	12A	4	*Escherichia coli*	SHV 12/129 TEM 1b
			13S00741-7	12A	4	*Escherichia coli*	SHV 12/129 TEM 1b/104
13S00745	1.28E+05	0.0002	13S00745-5	21A	4	*Escherichia coli*	CTX-M 1/61
			13S00745-6	21A	4	*Escherichia coli*	SHV 12/129
			13S00745-7	21A	4	*Escherichia coli*	SHV 12/129
13S00746	3.23E+06	0.0004	13S00746-5	21B	4	*Escherichia coli*	CTX-M 1 TEM 1b
			13S00746-6	21B	4	*Escherichia coli*	SHV 12/129
			13S00746-7	21B	4	*Escherichia coli*	SHV 12/129
13S00747	2.08E+06	0.0017	13S00747-4	9B	4	*Escherichia coli*	*amp*C type 3
			13S00747-5	9B	4	*Escherichia coli*	*amp*C type 3
			13S00747-6	9B	4	*Escherichia coli*	*amp*C type 3
13S00748	1.09E+07	0.0003	13S00748-5	9A	4	*Escherichia coli*	CTX-M 14/18 TEM 1b/104

			13S00748-6	9A	4	*Escherichia coli*	CMY 2/61 TEM 1b/104
			13S00748-7	9A	4	*Escherichia coli*	CTX-M 15/28 TEM 1varA
			13S00748-8	9A	4	*Escherichia coli*	*amp*C type 3
13S00749	1.17E+07	0.0003	13S00749-5	9C	4	*Escherichia coli*	CTX-M 15/28 TEM 1varA
			13S00749-6	9C	4	*Escherichia coli*	CTX-M 15/28 TEM 1varA
			13S00749-7	9C	4	*Escherichia coli*	*amp*C type 3
			13S00749-8	9C	4	*Escherichia coli*	*amp*C type 3
13S00751	1.00E+04	0.0455	13S00751-3	5B	5	*Acinetobacter spp*	
13S00753	4.81E+07	0.0016	13S00753-4	11A	5	*Escherichia coli*	CTX-M 1/61 TEM 1b/104
			13S00753-5	11A	5	*Escherichia coli*	TEM 52c
			13S00753-6	11A	5	*Escherichia coli*	*amp*C type 3
13S00754	1.94E+06	0.0027	13S00754-4	15A	5	*Escherichia coli*	CTX-M 14/18 TEM 1b
			13S00754-5	15A	5	*Escherichia coli*	CTX-M 32
			13S00754-6	15A	5	*Escherichia coli*	TEM 52c
			13S00754-7	15A	5	*Escherichia coli*	CMY 2/61
13S00756	3.77E+07	0.0363	13S00756-4	15C	5	*Escherichia coli*	*amp*C type 3
			13S00756-5	15C	5	*Escherichia coli*	*amp*C type 3
			13S00756-6	15C	5	*Escherichia coli*	*amp*C type 3 mutant
13S00758	1.04E+04	0.0000	13S00758-4	22A	5	*Escherichia coli*	TEM 1varA
			13S00758-5	22A	5	*Escherichia coli*	CTX-M 1 TEM 1b
			13S00758-6	22A	5	*Escherichia coli*	CTX-M 2/20/44/56/97 TEM 1b&52c
13S00761	5.21E+04	0.0000	13S00761-4	17A	5	*Escherichia coli*	CTX-M 32
			13S00761-5	17A	5	*Escherichia coli*	CTX-M 32
			13S00761-6	17A	5	*Escherichia coli*	CTX-M 32
13S00762	1.57E+05	0.0001	13S00762-4	17B	5	*Escherichia coli*	CTX-M 1 TEM 1b
			13S00762-5	17B	5	*Escherichia coli*	CTX-M 1
			13S00762-6	17B	5	*Escherichia coli*	CTX-M 14/18 TEM 1b
13S00763	4.00E+04	0.0004	13S00763-4	19A	5	*Escherichia coli*	CMY 2/61 TEM 1b
			13S00763-5	19A	5	*Escherichia coli*	SHV 12/129
			13S00763-6	19A	5	*Escherichia coli*	SHV 12/129
13S00769	1.86E+07	0.0024	13S00769-4	10A	5	*Escherichia coli*	TEM 1b&52c
			13S00769-5	10A	5	*Escherichia coli*	CTX-M 1
			13S00769-6	10A	5	*Escherichia coli*	CTX-M 1 TEM 1b
			13S00769-7	10A	5	*Escherichia coli*	CTX-M 1 TEM 1b
13S00770	3.94E+06	0.0015	13S00770-4	18A	5	*Escherichia coli*	CTX-M 1

			13S00770-5	18A	5	*Escherichia coli*	TEM 1d
			13S00770-6	18A	5	*Escherichia coli*	CTX-M 1
			13S00770-7	18A	5	*Escherichia coli*	*amp*C type 3
13S00771	2.88E+04	0.0000	13S00771-4	23A	5	*Escherichia coli*	*amp*C type 3
			13S00771-5	23A	5	*Escherichia coli*	CTX-M 1
			13S00771-6	23A	5	*Escherichia coli*	*amp*C type 3
13S00774	1.00E+02	0.0000	13S00774-4	5B	6	*Escherichia coli*	CMY 2/61
13S00775	2.94E+05	0.0001	13S00775-4	24A	6	*Escherichia coli*	TEM 52c
			13S00775-5	24A	6	*Escherichia coli*	CMY 2/61
			13S00775-6	24A	6	*Escherichia coli*	TEM 52c
13S00776	1.00E+05	0.0000	13S00776-4	24B	6	*Escherichia coli*	CMY 2/61
			13S00776-5	24B	6	*Escherichia coli*	CTX-M 1
			13S00776-6	24B	6	*Escherichia coli*	*amp*C type 3 mutant
13S00777	1.89E+04	0.0067	13S00777-4	12B	6	*Acinetobacter spp*	
			13S00777-5	12B	6	*Acinetobacter spp*	
			13S00777-6	12B	6	*Escherichia coli*	
13S00778	1.00E+02	0.0000	13S00778-4	12A	6	*Escherichia coli*	CMY 2/61 TEM 33
			13S00778-5	12A	6	*Acinetobacter spp*	
			13S00778-6	12A	6	*Acinetobacter spp*	
			13S00778-7	12A	6	*Pseudomonas spp*	
13S00784	1.00E+02	0.0000	13S00784-4	5A	7	*Unidentified species*	
			13S00784-5	5A	7	*Pseudomonas spp*	
13S00788	7.29E+03	0.0001	13S00788-4	12B	7	*Acinetobacter spp*	
			13S00788-5	12B	7	*Pseudomonas spp*	
			13S00788-6	12B	7	*Pseudomonas spp*	
13S00792	6.22E+10	1.0000	13S00792-4	16B	7	*Escherichia coli*	CMY 2/61
			13S00792-5	16B	7	*Escherichia coli*	CMY 2/61
			13S00792-6	16B	7	*Escherichia coli*	CMY 2/61
13S00883	2.12E+05	0.0000	13S00883-4	7A	8	*Escherichia coli*	CTX-M 1/61
			13S00883-5	7A	8	*Escherichia coli*	CTX-M 1/61
			13S00883-6	7A	8	*Escherichia coli*	CTX-M 1/61
			13S00883-7	7A	8	*Escherichia coli*	CTX-M 1/61
			13S00883-8	7A	8	*Escherichia coli*	CTX-M 1
13S00884	1.00E+02	0.0000	13S00884-2	7B	8	*Acinetobacter spp*	
			13S00884-3	7B	8	*Acinetobacter spp*	

13S00887	5.88E+07	0.0010	13S00887-4	9A	8	*Escherichia coli*	CTX-M 2/20/44/56/97 TEM 1b
			13S00887-5	9A	8	*Escherichia coli*	CTX-M 2/20/44/56/97 TEM 1b
			13S00887-6	9A	8	*Escherichia coli*	CTX-M 2/20/44/56/97 TEM 1b
13S00888	2.02E+07	0.0007	13S00888-4	9B	8	*Escherichia coli*	CTX-M 2/20/44/56/97 TEM 1b
			13S00888-5	9B	8	*Escherichia coli*	CTX-M 2/20/44/56/97 TEM 1b
			13S00888-6	9B	8	*Escherichia coli*	CTX-M 2/20/44/56/97 TEM 1b
13S00890	5.21E+06	0.0012	13S00890-4	9C	8	*Escherichia coli*	CTX-M 2/20/44/56/97 TEM 1b
			13S00890-5	9C	8	*Escherichia coli*	CTX-M 2/20/44/56/97 TEM 1b
			13S00890-6	9C	8	*Escherichia coli*	CTX-M 2/20/44/56/97 TEM 1b
13S00892	1.00E+02	0.0000	13S00892-3	12B	8	*Escherichia coli*	CMY 2/61
13S00894	1.00E+02	0.0000	13S00894-3	5B	8	*Escherichia coli*	CTX-M 1
13S00896	2.50E+06	0.0375	13S00896-4	1B	8	*Escherichia coli*	CTX-M 15 TEM 1b
			13S00896-5	1B	8	*Escherichia coli*	CTX-M 15 TEM 1b
			13S00896-6	1B	8	*Escherichia coli*	CTX-M 15 TEM 1b
13S00898	9.62E+03	0.0017	13S00898-5	21A	8	*Escherichia coli*	CTX-M 1 TEM 1b
13S00899	1.00E+05	0.0013	13S00899-2	21B	8	*Escherichia coli*	TEM 1b
			13S00899-5	21B	8	*Escherichia coli*	CMY 2/61
13S00902	2.94E+07	1.0000	13S00902-4	5B	9	*Escherichia coli*	CTX-M 15 OXA 1/30
			13S00902-5	5B	9	*Escherichia coli*	CTX-M 15 OXA 1/30
			13S00902-6	5B	9	*Escherichia coli*	CTX-M 15 OXA 1/30
13S00903	2.00E+06	0.0100	13S00903-4	12A	9	*Escherichia coli*	CTX-M 1 TEM 1b
			13S00903-5	12A	9	*Escherichia coli*	CTX-M 1 TEM 1b
			13S00903-6	12A	9	*Escherichia coli*	CTX-M 1 TEM 1b
13S00905	1.00E+02	0.0000	13S00905-3	2A	9	*Escherichia coli*	CMY 2/61
13S00906	1.00E+08	0.0048	13S00906-4	11A	9	*Escherichia coli*	CTX-M 1 TEM 1
			13S00906-5	11A	9	*Escherichia coli*	CTX-M 14/18 TEM 1b
			13S00906-6	11A	9	*Acinetobacter spp*	
13S00911	1.00E+02	0.0000	13S00911-3	17A	9	*Escherichia coli*	SHV 12/129
13S00914	1.00E+02	0.0000	13S00914-3	5B	10	*Pseudomonas spp*	
13S00915	1.30E+10	0.1300	13S00915-4	18A	10	*Escherichia coli*	CTX-M 1
			13S00915-5	18A	10	*Escherichia coli*	CTX-M 1/61
			13S00915-6	18A	10	*Escherichia coli*	CTX-M 1
13S00916	1.12E+07	0.0032	13S00916-4	19A	10	*Escherichia coli*	CTX-M 1
			13S00916-5	19A	10	*Escherichia coli*	CTX-M 1
			13S00916-6	19A	10	*Escherichia coli*	CTX-M 14

			13S00916-7	19A	10	*Escherichia coli*	CTX-M 55/57 TEM 1b
13S00917	3.13E+06	0.0001	13S00917-4	23A	10	*Escherichia coli*	CTX-M 1 TEM 1b
			13S00917-5	23A	10	*Escherichia coli*	CTX-M 1 TEM 1b
			13S00917-6	23A	10	*Escherichia coli*	TEM 52c&135
			13S00917-7	23A	10	*Escherichia coli*	TEM 52c&135
			13S00917-8	23A	10	*Acinetobacter spp*	OXA-23-like
13S00918	3.85E+05	0.0003	13S00918-4	24A	10	*Escherichia coli*	CMY 2
			13S00918-5	24A	10	*Escherichia coli*	CMY 2
			13S00918-6	24A	10	*Escherichia coli*	TEM 52c
			13S00918-7	24A	10	*Escherichia coli*	SHV 12/129
13S00919	1.00E+02	0.0000	13S00919-3	24B	10	*Escherichia coli*	CMY 2
13S00920	1.00E+02	0.0000	13S00920-3	6A	10	*Enterobacter cloacae*	
13S00926	4.17E+06	0.0060	13S00926-4	15A	10	*Escherichia coli*	CTX-M 1
			13S00926-5	15A	10	*Escherichia coli*	CTX-M 1
			13S00926-6	15A	10	*Escherichia coli*	CTX-M 1
			13S00926-7	15A	10	*Escherichia coli*	CTX-M 1 TEM 1b
13S00928	1.76E+06	0.0001	13S00928-4	15C	10	*Escherichia coli*	CMY 2/61
			13S00928-5	15C	10	*Escherichia coli*	SHV 12/129 TEM 1
			13S00928-6	15C	10	*Escherichia coli*	CTX-M 1 TEM 1b
			13S00928-7	15C	10	*Escherichia coli*	CTX-M 1 TEM 1b
13S00929	1.00E+02	0.0000	13S00929-3	12A	10	*Escherichia coli*	CMY 2 TEM 35 (accession: KP860986)
13S00940	9.80E+05	0.0012	13S00940-4	22A	11	*Escherichia coli*	TEM 52c
			13S00940-5	22A	11	*Escherichia coli*	CTX-M 2/97
			13S00940-6	22A	11	*Escherichia coli*	CTX-M 32
13S00944	2.40E+07	0.0277	13S00944-4	3A	11	*Escherichia coli*	CMY 2/61 TEM 1b/104
			13S00944-5	3A	11	*Escherichia coli*	CMY 2/61 TEM 1b/104
			13S00944-6	3A	11	*Escherichia coli*	CMY 2/61 TEM 1b
13S00951	2.94E+08	0.2146	13S00951-4	11A	12	*Escherichia coli*	CTX-M 1 OXA 1/30 TEM 1b&1d
			13S00951-5	11A	12	*Escherichia coli*	CTX-M 1 OXA 1/30 TEM 1b&1d
			13S00951-6	11A	12	*Escherichia coli*	CTX-M 1 OXA 1/30 TEM 1b&1d
13S00956	4.17E+04	0.0001	13S00956-4	5B	12	*Escherichia coli*	CTX-M 1 TEM 1b
			13S00956-5	5B	12	*Escherichia coli*	CTX-M 1
			13S00956-6	5B	12	*Escherichia coli*	CTX-M 1 TEM 1b
			13S00956-7	5B	12	*Escherichia coli*	TEM 52c

13S00969	1.00E+02	0.0002	13S00969-3	16A	13	*Ochrobactrum spp*	
13S00971	9.80E+05	0.0001	13S00971-4	19A	13	*Escherichia coli*	CTX-M 1
			13S00971-5	19A	13	*Escherichia coli*	CTX-M 1
			13S00971-6	19A	13	*Escherichia coli*	CTX-M 15 OXA 1/30 TEM 33
13S00972	4.31E+07	0.0031	13S00972-4	9A	13	*Escherichia coli*	CTX-M 1
			13S00972-5	9A	13	*Escherichia coli*	CTX-M 1
			13S00972-6	9A	13	*Escherichia coli*	CTX-M 1
13S00973	1.47E+06	0.0000	13S00973-4	9B	13	*Escherichia coli*	CTX-M 1
			13S00973-5	9B	13	*Escherichia coli*	SHV 12/129
			13S00973-6	9B	13	*Escherichia coli*	CTX-M 1
13S00974	9.57E+06	0.0002	13S00974-4	9C	13	*Escherichia coli*	CMY 2
			13S00974-5	9C	13	*Escherichia coli*	CMY 2
			13S00974-6	9C	13	*Escherichia coli*	CMY 2
13S00977	1.00E+02	0.0000	13S00977-3	2A	13	*Pseudomonas aeruginosa*	
13S00978	1.00E+02	0.0094	13S00978-3	3A	13	*Acinetobacter spp*	
13S00980	4.79E+07	0.0012	13S00980-4	10A	13	*Escherichia coli*	CMY 2 TEM 1b
			13S00980-5	10A	13	*Escherichia coli*	CTX-M 15 TEM 1varA&1varB
			13S00980-6	10A	13	*Escherichia coli*	CMY 2/61 TEM 1b
13S00982	5.00E+07	0.0071	13S00982-4	15A	14	*Escherichia coli*	SHV 12/129
			13S00982-5	15A	14	*Escherichia coli*	CTX-M 1
			13S00982-6	15A	14	*Escherichia coli*	CTX-M 1
			13S00982-7	15A	14	*Escherichia coli*	SHV 12/129
13S00983	1.00E+02	0.0000	13S00983-3	15B	14	*Escherichia coli*	CTX-M 1
			13S00984-4	15C	14	*Escherichia coli*	CTX-M 1
			13S00984-5	15C	14	*Escherichia coli*	*amp*C type 11
			13S00984-6	15C	14	*Escherichia coli*	CTX-M 1
13S00984	1.54E+08	0.0025	13S00984-7	15C	14	*Pseudomonas aeruginosa*	
13S00986	1.85E+06	0.0003	13S00986-4	24A	14	*Escherichia coli*	CTX-M 1
			13S00986-5	24A	14	*Escherichia coli*	CTX-M 1
			13S00986-6	24A	14	*Escherichia coli*	CTX-M 1
13S00987	4.00E+07	0.0057	13S00987-4	24B	14	*Escherichia coli*	CTX-M 1
			13S00987-5	24B	14	*Escherichia coli*	CTX-M 1/61
			13S00987-6	24B	14	*Escherichia coli*	CTX-M 1

13S00988	6.86E+06	0.0175	13S00988-4	17A	14	*Escherichia coli*	CTX-M 1
			13S00988-5	17A	14	*Escherichia coli*	CTX-M 1
			13S00988-6	17A	14	*Escherichia coli*	CTX-M 1
13S00989	7.14E+04	0.0008	13S00989-4	17B	14	*Escherichia coli*	CTX-M 1
			13S00989-5	17B	14	*Escherichia coli*	TEM 1b
			13S00989-6	17B	14	*Escherichia coli*	TEM 1b
13S00990	1.90E+06	0.0009	13S00990-4	18A	14	*Escherichia coli*	CTX-M 1
			13S00990-5	18A	14	*Escherichia coli*	CTX-M 15
			13S00990-6	18A	14	*Escherichia coli*	CTX-M 1
13S01005	1.00E+02	0.0000	13S01005-3	3A	14	*Escherichia coli*	CTX-M 1 CMY 2/61 TEM 1b
13S01013	1.00E+05	0.0003	13S01013-4	22A	16	*Escherichia coli*	CTX-M 2/20/44/56/97
			13S01013-5	22A	16	*Escherichia coli*	CTX-M 1 TEM 1
			13S01013-6	22A	16	*Escherichia coli*	CTX-M 1 TEM 1b
13S01021	5.56E+05	0.0000	13S01021-4	11A	17	*Escherichia coli*	CTX-M 14/18 TEM 1b
			13S01021-5	11A	17	*Escherichia coli*	*amp*C type 3
			13S01021-6	11A	17	*Escherichia coli*	CTX-M 14/18
13S01027	1.00E+02	0.0000	13S01027-3	2A	17	*Escherichia coli*	CTX-M 3 TEM 1b
			13S01027-6	2A	17	*Pseudomonas aeruginosa*	
13S01028	1.92E+04	0.0001	13S01028-4	7A	17	*Escherichia coli*	TEM 1
			13S01028-5	7A	17	*Escherichia coli*	TEM 1
13S01029	1.00E+04	0.0000	13S01029-4	7B	17	*Escherichia coli*	CMY 2/61 TEM 33
			13S01029-5	7B	17	*Escherichia coli*	CMY 2/61 TEM 33
13S01031	3.13E+06	0.0006	13S01031-4	9A	17	*Escherichia coli*	CTX-M 15
			13S01031-5	9A	17	*Escherichia coli*	CTX-M 14/18 TEM 1b
			13S01031-6	9A	17	*Escherichia coli*	CTX-M 1
13S01033	2.50E+06	0.0004	13S01033-4	9C	17	*Escherichia coli*	CTX-M 1 TEM 1&1b
			13S01033-5	9C	17	*Escherichia coli*	CTX-M 1
			13S01033-6	9C	17	*Escherichia coli*	CTX-M 3
13S01042	1.00E+02	0.0000	13S01042-3	21B	17	*Escherichia coli*	*amp*C type 3 mutant
13S01053	1.63E+07	0.0080	13S01053-4	10A	18	*Escherichia coli*	CTX-M 15 TEM 1varA
			13S01053-5	10A	18	*Escherichia coli*	CTX-M 15 TEM 1varA
			13S01053-6	10A	18	*Escherichia coli*	CTX-M 15 TEM 1varA
13S01061	5.32E+05	0.0001	13S01061-4	15A	18	*Escherichia coli*	CMY 134 (accession: KP860987)
			13S01061-5	15A	18	*Escherichia coli*	CMY 2/61

			13S01061-6	15A	18	*Escherichia coli*	CTX-M 1
			13S01061-7	15A	18	*Escherichia coli*	*amp*C type 3
13S01062	6.67E+07	0.0026	13S01062-4	15C	18	*Escherichia coli*	CTX-M 15 OXA 1/30 TEM 1varA
			13S01062-5	15C	18	*Escherichia coli*	CTX-M 1 TEM 1b
			13S01062-6	15C	18	*Escherichia coli*	CTX-M 15 OXA 1/30 TEM 1b/104
13S01063	1.00E+02	0.0000	13S01063-3	19A	18	*Escherichia coli*	*amp*C type 3
13S01075	6.27E+05	0.0032	13S01075-4	17B	18	*Escherichia coli*	CTX-M 8 TEM 1b/104
			13S01075-5	17B	18	*Escherichia coli*	CTX-M 14/18
			13S01075-6	17B	18	*Escherichia coli*	CTX-M 8
			13S01075-8	17B	18	*Escherichia coli*	TEM 52c
13S01076	3.00E+04	0.0003	13S01076-4	18A	19	*Escherichia coli*	CTX-M 1
			13S01076-5	18A	19	*Escherichia coli*	CTX-M 32
			13S01076-6	18A	19	*Escherichia coli*	CTX-M 1
13S01077	4.35E+05	0.0001	13S01077-4	22A	19	*Escherichia coli*	*amp*C type 3
			13S01077-5	22A	19	*Escherichia coli*	*amp*C type 3
			13S01077-6	22A	19	*Escherichia coli*	CTX-M 1 TEM 1b
13S01078	3.60E+06	0.0008	13S01078-4	24A	19	*Escherichia coli*	*amp*C type 3 mutant
			13S01078-5	24A	19	*Escherichia coli*	CTX-M 1
			13S01078-6	24A	19	*Escherichia coli*	TEM 52c
			13S01078-7	24A	19	*Escherichia coli*	SHV 12/129
13S01079	8.65E+04	0.0003	13S01079-4	24B	19	*Escherichia coli*	TEM 52c
			13S01079-5	24B	19	*Escherichia coli*	TEM 52c
			13S01079-6	24B	19	*Escherichia coli*	TEM 52c
			13S01079-8	24B	19	*Escherichia coli*	SHV 12/129
13S01116	4.35E+05	0.0001	13S01116-4	9A	21	*Escherichia coli*	SHV 12/129
			13S01116-5	9A	21	*Escherichia coli*	SHV 12/129
			13S01116-6	9A	21	*Escherichia coli*	SHV 12/129 TEM 1b
13S01118	4.81E+05	0.0002	13S01118-4	9C	21	*Escherichia coli*	SHV 12/129 TEM 1&1b
			13S01118-5	9C	21	*Escherichia coli*	SHV 12/129
			13S01118-6	9C	21	*Escherichia coli*	SHV 12/129 TEM 1&1b
13S01135	1.00E+06	0.0014	13S01135-4	11A	21	*Escherichia coli*	CTX-M 2/20/44/56/97 TEM 1b
			13S01135-5	11A	21	*Escherichia coli*	CTX-M 1 TEM 1b
			13S01135-6	11A	21	*Escherichia coli*	CTX-M 65
13S01141	9.80E+05	0.0200	13S01141-4	5B	22	*Escherichia coli*	CTX-M 15 OXA 1/30
			13S01141-5	5B	22	*Escherichia coli*	CTX-M 15 OXA 1/30

			13S01141-6	5B	22	*Escherichia coli*	CTX-M 15 OXA 1/30
13S01143	2.14E+08	0.0583	13S01143-4	10A	22	*Escherichia coli*	SHV 12/129
			13S01143-5	10A	22	*Escherichia coli*	SHV 2
			13S01143-6	10A	22	*Escherichia coli*	TEM 1b&52StPaul
13S01151	8.24E+06	0.0047	13S01151-4	16A	22	*Escherichia coli*	TEM 52c
			13S01151-5	16A	22	*Escherichia coli*	CTX-M 14/18 OXA 1/30
			13S01151-6	16A	22	*Escherichia coli*	CTX-M 2/20/44/56/97 TEM 1b
			13S01151-8	16A	22	*Escherichia coli*	CTX-M 2/20/44/56/97 TEM 1b
13S01152	1.00E+02	0.0000	13S01152-3	16B	22	*Escherichia coli*	CTX-M 32
13S01154	5.88E+07	0.0100	13S01154-4	15A	22	*Escherichia coli*	CTX-M 15 OXA 1/30
			13S01154-5	15A	22	*Escherichia coli*	CTX-M 15 OXA 1/30
			13S01154-6	15A	22	*Escherichia coli*	CTX-M 15 OXA 1/30
13S01155	1.00E+02	0.0000	13S01155-3	15C	22	*Escherichia coli*	TEM 52StPaul
13S01164	1.04E+05	0.0005	13S01164-4	18A	23	*Escherichia coli*	CMY 2/61
			13S01164-5	18A	23	*Escherichia coli*	CMY 2/61
			13S01164-6	18A	23	*Escherichia coli*	TEM 52StPaul
13S01165	1.04E+07	0.0010	13S01165-4	17A	23	*Escherichia coli*	CTX-M 14/18
			13S01165-5	17A	23	*Escherichia coli*	*amp*C type 3
			13S01165-6	17A	23	*Escherichia coli*	*amp*C type 3
13S01166	1.96E+06	0.0010	13S01166-4	17B	23	*Escherichia coli*	*amp*C type 3
			13S01166-5	17B	23	*Escherichia coli*	*amp*C type 3
			13S01166-6	17B	23	*Escherichia coli*	CTX-M 14/18
13S01175	1.00E+02	0.0000	13S01175-3	6A	23	*Escherichia coli*	CTX-M 1 TEM 1b&1c
13S01176	2.13E+08	0.0334	13S01176-4	6B	23	*Escherichia coli*	SHV 12/129
			13S01176-5	6B	23	*Escherichia coli*	CTX-M 1 TEM 1b&1c
			13S01176-6	6B	23	*Escherichia coli*	CTX-M 14/18 TEM 1b
			13S01176-7	6B	23	*Escherichia coli*	CTX-M 14/18 TEM 1b
			13S01176-8	6B	23	*Escherichia coli*	TEM 1b&52StPaul
13S01188	4.90E+04	0.0001	13S01188-4	22A	24	*Escherichia coli*	CTX-M 65
			13S01188-5	22A	24	*Escherichia coli*	CTX-M 1 TEM 1b/104
			13S01188-6	22A	24	*Escherichia coli*	*amp*C type 3
14S00011	4.22E+05	0.0008	14S00011-4	9A	26	*Escherichia coli*	TEM 30var
			14S00011-5	9A	26	*Escherichia coli*	TEM 30var
			14S00011-6	9A	26	*Escherichia coli*	TEM 30var
14S00012	5.21E+07	0.0575	14S00012-4	9B	26	*Escherichia coli*	CTX-M 1

			14S00012-5	9B	26	*Escherichia coli*	CTX-M 1
			14S00012-6	9B	26	*Escherichia coli*	CTX-M 1
14S00013	1.00E+02	0.0000	14S00013-5	9C	26	*Escherichia coli*	CTX-M 1
14S00017	9.38E+06	0.0225	14S00017-4	11A	26	*Escherichia coli*	CTX-M 1
			14S00017-5	11A	26	*Escherichia coli*	CTX-M 15 TEM 1b&1varA
			14S00017-6	11A	26	*Escherichia coli*	CTX-M 15 TEM 1b&1varA
14S00018	1.00E+02	0.0000	14S00018-3	19A	26	*Escherichia coli*	CTX-M 1
			14S00018-6	19A	26	*Escherichia coli*	CTX-M 1/61
			14S00018-7	19A	26	*Escherichia coli*	CTX-M 1

Column CFU/g shows cfu/g faeces of non-wild-type Enterobacteriaceae with reduced susceptibility on MCC. Column F shows fraction of cfu/g faeces of non-wild-type Enterobacteriaceae with reduced susceptibility on MCC compared to total Enterobacteriaceae on MC

*Gene characterisation: AmpC types were assigned according to Mulvey *et al*. (9) Sequence references provided on www.lahey.org/studies and the following reference strains were used for characterization: TEM-1b (GenBank no. AB263754), TEM-52c (GenBank no. AY883411) and TEM-52StPaul (GenBank no. AF126444). Alleles with double ID's (e.g. CMY-2/61) could not be distinguished based on the partial sequences obtained in the screening.

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