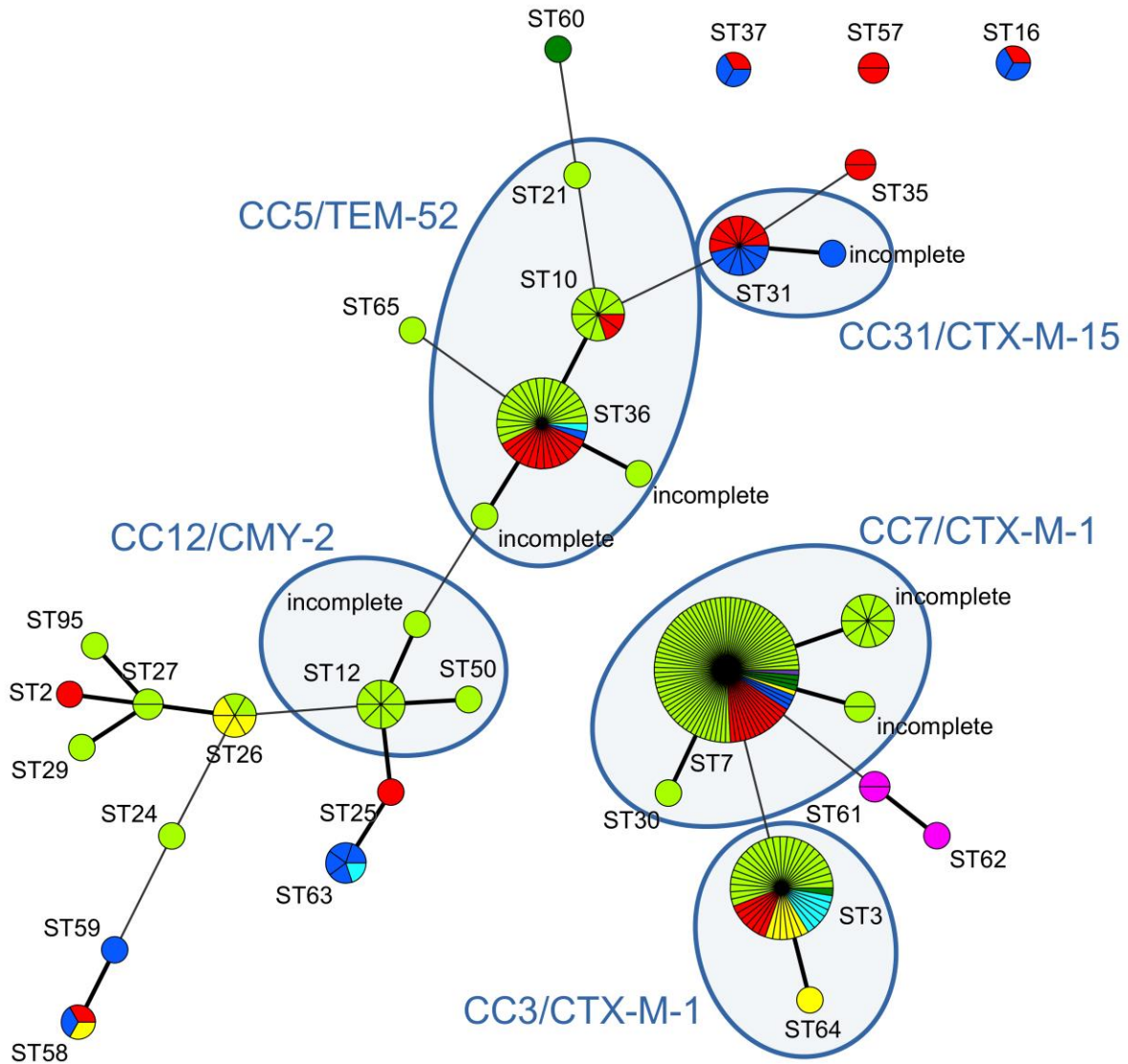


SUPPLEMENTARY FIGURES.

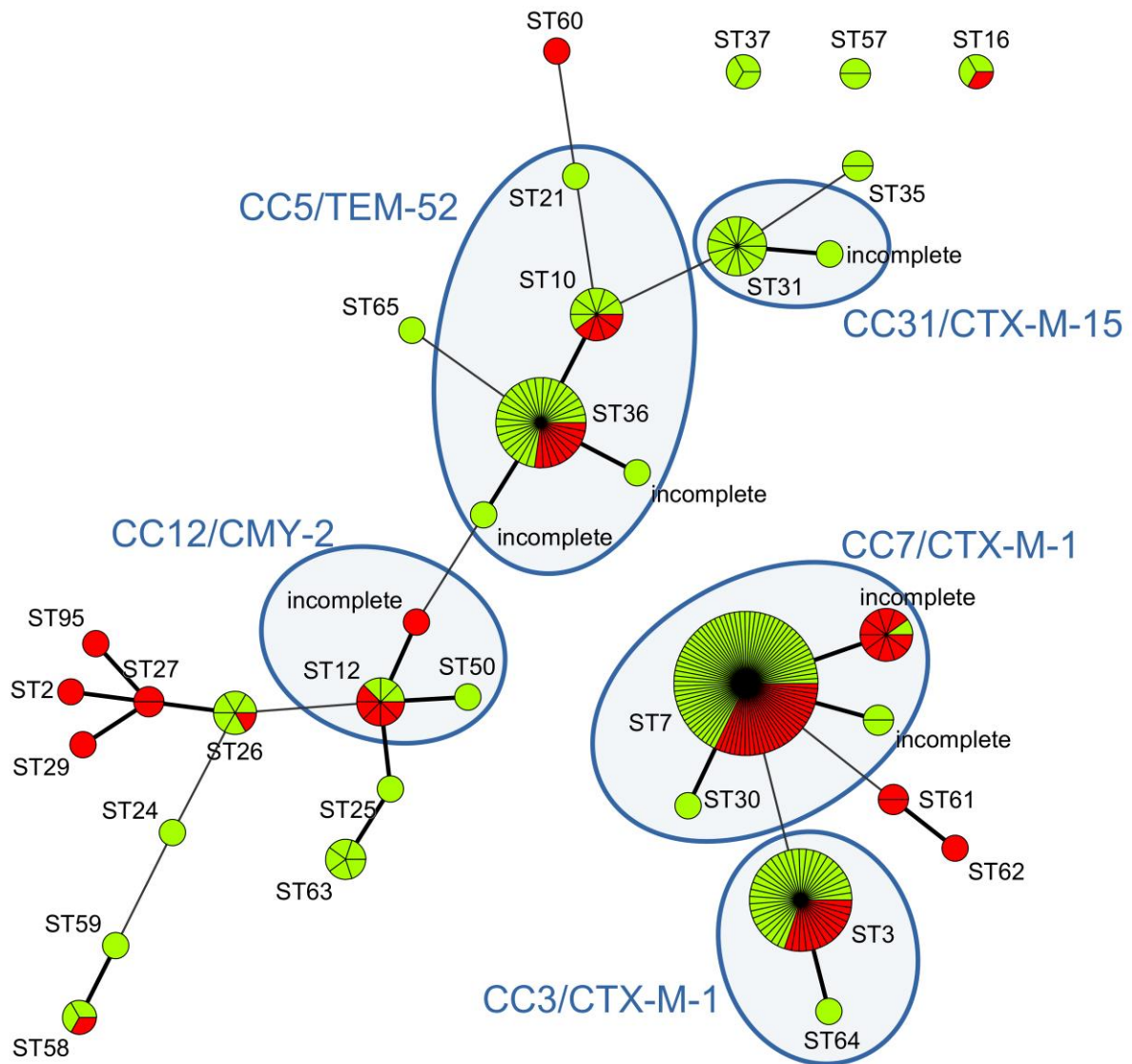


FigS1

pMLST analysis of 251 selected IncII-I γ plasmids as visualized by Bionumerics 6.5. Plasmids with identical sequence types were assigned to one circle. Single locus variants are indicated by a thick line and double locus variants by a thin line. Sequence types belonging to one clonal complex are grouped by a blue circle. Colours indicate the animal source of the isolates containing the various plasmids.

Poultry: ■ Cattle: ■ Human: ■ Pig: ■ Turkey: ■ Horse: ■ Sheep: ■

Unknown: ■



FigS2

pMLST analysis of 251 selected IncII-I γ plasmids as visualized by Bionumerics 6.5. Plasmids with identical pMLST types were assigned to one circle. Single locus variants are indicated by a thick line and double locus variants by a thin line. Sequence types belonging to one clonal complex are grouped by a blue circle. Colours indicate whether the plasmids were obtained from *E.coli* ■ or from *Salmonella*. ■

Table S1

Salmonella and *E. coli* isolates containing IncI1 plasmids carrying ESBL/AmpC encoding genes or a class I integron

Key	Bacterial host	Species	Year isolation	Country	ESBL/AmpC	pMLST ST*	estimated plasmid size (kb)**
Sal-70	<i>Salmonella</i>	Poultry	2009	G	CMY-2	incomplete	
ESBL-244	<i>E. coli</i>	Poultry	2009	G	CMY-2	ST12	
ESBL-318	<i>E. coli</i>	Poultry	2008	NL	CMY-2	ST12	95
ESBL-355	<i>E. coli</i>	Poultry	2007	NL	CMY-2	ST12	100
Sal-38	<i>Salmonella</i>	Poultry	2008	NL	CMY-2	ST12	
Sal-4	<i>Salmonella</i>	Poultry	2008	NL	CMY-2	ST12	
Sal-67	<i>Salmonella</i>	Poultry	2009	G	CMY-2	ST12	
Sal-68	<i>Salmonella</i>	Poultry	unknown	G	CMY-2	ST12	
Sal-69	<i>Salmonella</i>	Poultry	2009	G	CMY-2	ST12	
Sal-3	<i>Salmonella</i>	Human	2008	NL	CMY-2	ST2	
ESBL-243	<i>E. coli</i>	Poultry	2009	G	CMY-2	ST65	
E39.47	<i>E. coli</i>	Poultry	unknown	NL	CTX-M-1	incomplete	
ESBL-302	<i>E. coli</i>	Poultry	2008	NL	CTX-M-1	incomplete	95
ESBL-315	<i>E. coli</i>	Poultry	2008	NL	CTX-M-1	incomplete	90
Sal-13	<i>Salmonella</i>	Poultry	2008	NL	CTX-M-1	incomplete	
Sal-18	<i>Salmonella</i>	Poultry	2008	NL	CTX-M-1	incomplete	
Sal-19	<i>Salmonella</i>	Poultry	2008	NL	CTX-M-1	incomplete	
Sal-21	<i>Salmonella</i>	Poultry	2008	NL	CTX-M-1	incomplete	
Sal-29	<i>Salmonella</i>	Poultry	2008	NL	CTX-M-1	incomplete	
Sal-32	<i>Salmonella</i>	Poultry	2008	NL	CTX-M-1	incomplete	
Sal-5	<i>Salmonella</i>	Poultry	2008	NL	CTX-M-1	incomplete	
Sal-62	<i>Salmonella</i>	Poultry	2009	G	CTX-M-1	incomplete	
Sal-8	<i>Salmonella</i>	Poultry	2008	NL	CTX-M-1	incomplete	
ESBL-197	<i>E. coli</i>	Poultry	2009	G	CTX-M-1	ST10	
ESBL-148	<i>E. coli</i>	Pigs	unknown	G	CTX-M-1	ST26	
ESBL-149	<i>E. coli</i>	Pigs	unknown	G	CTX-M-1	ST26	
ESBL-150	<i>E. coli</i>	Pigs	unknown	G	CTX-M-1	ST26	
ESBL-151	<i>E. coli</i>	Pigs	unknown	G	CTX-M-1	ST26	
48	<i>E. coli</i>	Human	unknown	NL	CTX-M-1	ST3	
53	<i>E. coli</i>	Human	unknown	NL	CTX-M-1	ST3	
ESBL-116	<i>E. coli</i>	Human	2009	NL	CTX-M-1	ST3	
ESBL-305	<i>E. coli</i>	Poultry	2008	NL	CTX-M-1	ST3	105
ESBL-323	<i>E. coli</i>	Pigs	2008	NL	CTX-M-1	ST3	105
ESBL-330	<i>E. coli</i>	Poultry	2008	NL	CTX-M-1	ST3	
ESBL-367	<i>E. coli</i>	Poultry	2006	NL	CTX-M-1	ST3	
ESBL-470	<i>E. coli</i>	Poultry	2007	NL	CTX-M-1	ST3	
ESBL-483	<i>E. coli</i>	Pigs	2008	UK	CTX-M-1	ST3	
ESBL-53	<i>E. coli</i>	Human	2009	NL	CTX-M-1	ST3	95
ESBL-593	<i>E. coli</i>	Poultry	2008	UK	CTX-M-1	ST3	
ESBL-594	<i>E. coli</i>	Poultry	2008	UK	CTX-M-1	ST3	
ESBL-597	<i>E. coli</i>	Poultry	2008	UK	CTX-M-1	ST3	
ESBL-602	<i>E. coli</i>	Poultry	2008	UK	CTX-M-1	ST3	
ESBL-605	<i>E. coli</i>	Poultry	2008	UK	CTX-M-1	ST3	
ESBL-606	<i>E. coli</i>	Poultry	2008	UK	CTX-M-1	ST3	
ESBL-607	<i>E. coli</i>	Poultry	2008	UK	CTX-M-1	ST3	
ESBL-608	<i>E. coli</i>	Poultry	2008	UK	CTX-M-1	ST3	
ESBL-609	<i>E. coli</i>	Poultry	2008	UK	CTX-M-1	ST3	
ESBL-613	<i>E. coli</i>	Poultry	2008	UK	CTX-M-1	ST3	
ESBL-615	<i>E. coli</i>	Poultry	2006	UK	CTX-M-1	ST3	
ESBL-618	<i>E. coli</i>	Poultry	2006	UK	CTX-M-1	ST3	
ESBL-625	<i>E. coli</i>	Poultry	2006	UK	CTX-M-1	ST3	
ESBL-642	<i>E. coli</i>	Poultry	2006	UK	CTX-M-1	ST3	
ESBL-654	<i>E. coli</i>	Poultry	2007	UK	CTX-M-1	ST3	
ESBL-749	<i>E. coli</i>	Human	2009	UK	CTX-M-1	ST3	
ESBL-80	<i>E. coli</i>	Human	2009	NL	CTX-M-1	ST3	
S186.27	<i>Salmonella</i>	Poultry	2006	NL	CTX-M-1	ST3	
Sal-49	<i>Salmonella</i>	Food	2005	G	CTX-M-1	ST3	
Sal-85	<i>Salmonella</i>	Pigs	2009	G	CTX-M-1	ST3	
Sal-86	<i>Salmonella</i>	Pigs	2009	G	CTX-M-1	ST3	
Sal-87	<i>Salmonella</i>	Pigs	2009	G	CTX-M-1	ST3	

Sal-93	<i>Salmonella</i>	Pigs	2009	G	CTX-M-1	ST3	
E39.51	<i>E. coli</i>	Poultry	2006	NL	CTX-M-1	ST30	
ESBL-744	<i>E. coli</i>	Human	2009	UK	CTX-M-1	ST35	
NRS27	<i>E. coli</i>	Human	2009	NL	CTX-M-1	ST35	90
Sal-64	<i>Salmonella</i>	Poultry	2009	G	CTX-M-1	ST36	
ESBL-169	<i>E. coli</i>	Cattle	2009	G	CTX-M-1	ST58	
ESBL-225	<i>E. coli</i>	Human	unknown	G	CTX-M-1	ST58	
Sal-94	<i>Salmonella</i>	Pigs	2009	G	CTX-M-1	ST58	
ESBL-245	<i>E. coli</i>	Cattle	2009	G	CTX-M-1	ST59	
Sal-71	<i>Salmonella</i>	Horses	2005	G	CTX-M-1	ST61	
Sal-72	<i>Salmonella</i>	Horses	2005	G	CTX-M-1	ST61	
Sal-73	<i>Salmonella</i>	Horses	2005	G	CTX-M-1	ST62	
ESBL-165	<i>E. coli</i>	Cattle	unknown	G	CTX-M-1	ST63	
ESBL-172	<i>E. coli</i>	Cattle	unknown	G	CTX-M-1	ST63	
ESBL-196	<i>E. coli</i>	Cattle	2009	G	CTX-M-1	ST63	
ESBL-200	<i>E. coli</i>	Poultry	2009	G	CTX-M-1	ST63	
ESBL-238	<i>E. coli</i>	Cattle	2009	G	CTX-M-1	ST63	
ESBL-324	<i>E. coli</i>	Pigs	2008	NL	CTX-M-1	ST64	105
E38.27	<i>E. coli</i>	Poultry	2006	NL	CTX-M-1	ST7	88
E38.16	<i>E. coli</i>	Poultry	2006	NL	CTX-M-1	ST7	
E38.49	<i>E. coli</i>	Poultry	2006	NL	CTX-M-1	ST7	
E38.52	<i>E. coli</i>	Poultry	2006	NL	CTX-M-1	ST7	
E38.53	<i>E. coli</i>	Poultry	2006	NL	CTX-M-1	ST7	
E38.78	<i>E. coli</i>	Poultry	unknown	NL	CTX-M-1	ST7	
E39.02	<i>E. coli</i>	Poultry	2006	NL	CTX-M-1	ST7	
E39.05	<i>E. coli</i>	Poultry	2006	NL	CTX-M-1	ST7	
E39.26	<i>E. coli</i>	Poultry	2006	NL	CTX-M-1	ST7	
ESBL-100	<i>E. coli</i>	Human	2009	NL	CTX-M-1	ST7	100
ESBL-112	<i>E. coli</i>	Human	2009	NL	CTX-M-1	ST7	100
ESBL-119	<i>E. coli</i>	Human	2009	NL	CTX-M-1	ST7	100
ESBL-195	<i>E. coli</i>	Poultry	unknown	G	CTX-M-1	ST7	
ESBL-201	<i>E. coli</i>	Poultry	2009	G	CTX-M-1	ST7	
ESBL-203	<i>E. coli</i>	Poultry	2006	NL	CTX-M-1	ST7	
ESBL-208	<i>E. coli</i>	Poultry	2006	NL	CTX-M-1	ST7	
ESBL-211	<i>E. coli</i>	Poultry	2006	NL	CTX-M-1	ST7	
ESBL-213	<i>E. coli</i>	Poultry	2006	NL	CTX-M-1	ST7	
ESBL-234	<i>E. coli</i>	Poultry	2009	G	CTX-M-1	ST7	
ESBL-235	<i>E. coli</i>	Cattle	2009	G	CTX-M-1	ST7	
ESBL-240	<i>E. coli</i>	Cattle	2009	G	CTX-M-1	ST7	
ESBL-270	<i>E. coli</i>	Poultry	2007	NL	CTX-M-1	ST7	105
ESBL-279	<i>E. coli</i>	Poultry	2008	NL	CTX-M-1	ST7	
ESBL-28	<i>E. coli</i>	Human	2009	NL	CTX-M-1	ST7	
ESBL-281	<i>E. coli</i>	Poultry	2008	NL	CTX-M-1	ST7	
ESBL-283	<i>E. coli</i>	Pigs	2008	NL	CTX-M-1	ST7	105
ESBL-286	<i>E. coli</i>	Poultry	2008	NL	CTX-M-1	ST7	110
ESBL-288	<i>E. coli</i>	Poultry	2008	NL	CTX-M-1	ST7	
ESBL-293	<i>E. coli</i>	Poultry	2008	NL	CTX-M-1	ST7	
ESBL-297	<i>E. coli</i>	Poultry	2008	NL	CTX-M-1	ST7	
ESBL-309	<i>E. coli</i>	Poultry	2008	NL	CTX-M-1	ST7	
ESBL-311	<i>E. coli</i>	Poultry	2008	NL	CTX-M-1	ST7	
ESBL-320	<i>E. coli</i>	Poultry	2008	NL	CTX-M-1	ST7	
ESBL-333	<i>E. coli</i>	Poultry	2008	NL	CTX-M-1	ST7	
ESBL-335	<i>E. coli</i>	Poultry	2008	NL	CTX-M-1	ST7	
ESBL-345	<i>E. coli</i>	Poultry	2008	NL	CTX-M-1	ST7	
ESBL-352	<i>E. coli</i>	Poultry	2006	NL	CTX-M-1	ST7	
ESBL-357	<i>E. coli</i>	Poultry	2007	NL	CTX-M-1	ST7	
ESBL-361	<i>E. coli</i>	Poultry	2006	NL	CTX-M-1	ST7	
ESBL-375	<i>E. coli</i>	Poultry	2007	NL	CTX-M-1	ST7	
ESBL-379	<i>E. coli</i>	Poultry	2006	NL	CTX-M-1	ST7	
ESBL-402	<i>E. coli</i>	Poultry	2007	NL	CTX-M-1	ST7	
ESBL-403	<i>E. coli</i>	Poultry	2007	NL	CTX-M-1	ST7	
ESBL-404	<i>E. coli</i>	Poultry	2007	NL	CTX-M-1	ST7	
ESBL-405	<i>E. coli</i>	Poultry	2007	NL	CTX-M-1	ST7	
ESBL-413	<i>E. coli</i>	Poultry	2007	NL	CTX-M-1	ST7	
ESBL-414	<i>E. coli</i>	Poultry	2007	NL	CTX-M-1	ST7	
ESBL-446	<i>E. coli</i>	Poultry	2006	NL	CTX-M-1	ST7	
ESBL-450	<i>E. coli</i>	Poultry	2006	NL	CTX-M-1	ST7	

ESBL-468	<i>E. coli</i>	Poultry	2007	NL	CTX-M-1	ST7	
ESBL-61	<i>E. coli</i>	Human	2009	NL	CTX-M-1	ST7	105
ESBL-67	<i>E. coli</i>	Human	2009	NL	CTX-M-1	ST7	
ESBL-97	<i>E. coli</i>	Human	2009	NL	CTX-M-1	ST7	
NRS-45	<i>E. coli</i>	Human	2009	NL	CTX-M-1	ST7	100
S162.03	<i>Salmonella</i>	Poultry	2006	NL	CTX-M-1	ST7	
S175.77	<i>Salmonella</i>	Poultry	2006	NL	CTX-M-1	ST7	
S187.45	<i>Salmonella</i>	Poultry	2006	NL	CTX-M-1	ST7	
S187.46	<i>Salmonella</i>	Poultry	2006	NL	CTX-M-1	ST7	
Sal-12	<i>Salmonella</i>	Poultry	2008	NL	CTX-M-1	ST7	
Sal-17	<i>Salmonella</i>	Poultry	2008	NL	CTX-M-1	ST7	
Sal-25	<i>Salmonella</i>	Poultry	2008	NL	CTX-M-1	ST7	
Sal-26	<i>Salmonella</i>	Poultry	2008	NL	CTX-M-1	ST7	
Sal-27	<i>Salmonella</i>	Poultry	2008	NL	CTX-M-1	ST7	
Sal-28	<i>Salmonella</i>	Poultry	2008	NL	CTX-M-1	ST7	
Sal-34	<i>Salmonella</i>	Poultry	2008	NL	CTX-M-1	ST7	
Sal-35	<i>Salmonella</i>	Poultry	2008	NL	CTX-M-1	ST7	
Sal-39	<i>Salmonella</i>	Poultry	2008	NL	CTX-M-1	ST7	
Sal-41	<i>Salmonella</i>	Poultry	2008	NL	CTX-M-1	ST7	
Sal-44	<i>Salmonella</i>	Poultry	2008	NL	CTX-M-1	ST7	
Sal-50	<i>Salmonella</i>	Poultry	2006	G	CTX-M-1	ST7	
Sal-53	<i>Salmonella</i>	Poultry	2006	G	CTX-M-1	ST7	
Sal-56	<i>Salmonella</i>	Poultry	2008	G	CTX-M-1	ST7	
Sal-57	<i>Salmonella</i>	Poultry	2008	G	CTX-M-1	ST7	
Sal-59	<i>Salmonella</i>	Poultry	2009	G	CTX-M-1	ST7	
Sal-6	<i>Salmonella</i>	Poultry	2008	NL	CTX-M-1	ST7	
Sal-60	<i>Salmonella</i>	Poultry	2009	G	CTX-M-1	ST7	
Sal-61	<i>Salmonella</i>	Poultry	2009	G	CTX-M-1	ST7	
Sal-63	<i>Salmonella</i>	Poultry	2009	G	CTX-M-1	ST7	
Sal-82	<i>Salmonella</i>	Poultry	2008	G	CTX-M-1	ST7	
Sal-95	<i>Salmonella</i>	Sheep	2009	G	CTX-M-1	ST7	
Sal-96	<i>Salmonella</i>	Cattle	2009	G	CTX-M-1	ST7	
Sal-97	<i>Salmonella</i>	Poultry	2009	G	CTX-M-1	ST7	
NRS-42	<i>E. coli</i>	Human	2009	NL	CTX-M-1	ST7	
NRS-47	<i>E. coli</i>	Human	2009	NL	CTX-M-1	ST7	
NRS-33	<i>E. coli</i>	Human	2009	NL	CTX-M-1	ST7	
NRS-35	<i>E. coli</i>	Human	2009	NL	CTX-M-1	ST7	
NRS-36	<i>E. coli</i>	Human	2009	NL	CTX-M-1	ST7	
ESBL-518	<i>E. coli</i>	Cattle	2008	UK	CTX-M-15	incomplete	
ESBL-503	<i>E. coli</i>	Cattle	2007	UK	CTX-M-15	ST16	
ESBL-506	<i>E. coli</i>	Cattle	2009	UK	CTX-M-15	ST16	
Sal-40	<i>Salmonella</i>	Human	2008	NL	CTX-M-15	ST16	
ESBL-140	<i>E. coli</i>	Human	2009	NL	CTX-M-15	ST31	
ESBL-223	<i>E. coli</i>	Human	unknown	G	CTX-M-15	ST31	
ESBL-4	<i>E. coli</i>	Human	2009	NL	CTX-M-15	ST31	90
ESBL-43	<i>E. coli</i>	Human	2009	NL	CTX-M-15	ST31	
ESBL-46	<i>E. coli</i>	Human	2009	NL	CTX-M-15	ST31	
ESBL-499	<i>E. coli</i>	Cattle	2009	UK	CTX-M-15	ST31	
ESBL-517	<i>E. coli</i>	Cattle	2009	UK	CTX-M-15	ST31	
ESBL-545	<i>E. coli</i>	Cattle	2009	UK	CTX-M-15	ST31	
ESBL-557	<i>E. coli</i>	Cattle	2007	UK	CTX-M-15	ST31	
ESBL-558	<i>E. coli</i>	Cattle	2009	UK	CTX-M-15	ST31	
ESBL-582	<i>E. coli</i>	Cattle	2008	UK	CTX-M-15	ST31	
ESBL-696	<i>E. coli</i>	Human	2009	UK	CTX-M-15	ST31	
ESBL-768	<i>E. coli</i>	Human	2009	UK	CTX-M-15	ST31	
ESBL-12	<i>E. coli</i>	Human	2009	NL	CTX-M-15	ST37	100
ESBL-498	<i>E. coli</i>	Cattle	2008	UK	CTX-M-15	ST37	
ESBL-500	<i>E. coli</i>	Cattle	2006	UK	CTX-M-15	ST37	
ESBL-598	<i>E. coli</i>	Poultry	2008	UK	CTX-M-3	ST3	
ESBL-101	<i>E. coli</i>	Human	2009	NL	CTX-M-3	ST57	
ESBL-221	<i>E. coli</i>	Human	unknown	G	CTX-M-3	ST57	
E17.16	<i>E. coli</i>	Poultry	2004	NL	intI1***	ST24	
E20.06	<i>E. coli</i>	Poultry	2004	NL	intI1	ST50	
E23.68	<i>E. coli</i>	Poultry	2004	NL	intI1	ST26	
S102.21	<i>Salmonella</i>	Poultry	unknown	NL	intI1	ST26	
S127.29	<i>Salmonella</i>	Poultry	unknown	NL	intI1	ST29	
E24.24	<i>E. coli</i>	Poultry	unknown	NL	intI1 (TEM-1)	ST3	

ESBL-77	<i>E. coli</i>	Human	2009	NL	SHV-12	ST25	105
ESBL-78	<i>E. coli</i>	Human	2009	NL	SHV-12	ST3	
Sal-66	<i>Salmonella</i>	Poultry	2009	G	SHV-12	ST95	
S124.61	<i>Salmonella</i>	Poultry	unknown	NL	TEM-1	ST3	
S168.68	<i>Salmonella</i>	Poultry	unknown	NL	TEM-1	ST3	
S177.41	<i>Salmonella</i>	Poultry	unknown	NL	TEM-1	ST3	
S171.70	<i>Salmonella</i>	Poultry	unknown	NL	TEM-20	ST3	
S180.34	<i>Salmonella</i>	Poultry	unknown	NL	TEM-20	ST3	
S502.56	<i>Salmonella</i>	Poultry	unknown	NL	TEM-20	ST3	
S503.59	<i>Salmonella</i>	Poultry	unknown	NL	TEM-20	ST3	
ESBL-362	<i>E. coli</i>	Poultry	2006	NL	TEM-52	incomplete	
ESBL-376	<i>E. coli</i>	Poultry	2007	NL	TEM-52	incomplete	
E38.34	<i>E. coli</i>	Poultry	2009	NL	TEM-52	ST10	97
E39.76	<i>E. coli</i>	Poultry	2006	NL	TEM-52	ST10	
ESBL-13	<i>E. coli</i>	Human	2009	NL	TEM-52	ST10	95
ESBL-478	<i>E. coli</i>	Poultry	2007	NL	TEM-52	ST10	
S162.19	<i>Salmonella</i>	Poultry	2006	NL	TEM-52	ST10	
S166.01	<i>Salmonella</i>	Poultry	2006	NL	TEM-52	ST10	
S166.22	<i>Salmonella</i>	Poultry	2006	NL	TEM-52	ST10	
S173.44	<i>Salmonella</i>	Poultry	2006	NL	TEM-52	ST10	
NRS-17	<i>E. coli</i>	Human	2009	NL	TEM-52	ST10	
ESBL-412	<i>E. coli</i>	Poultry	2007	NL	TEM-52	ST21	
S178.57	<i>Salmonella</i>	Poultry	unknown	NL	TEM-52	ST27	
S188.05	<i>Salmonella</i>	Poultry	unknown	NL	TEM-52	ST27	
ESBL-117	<i>E. coli</i>	Human	2009	NL	TEM-52	ST36	90
ESBL-14	<i>E. coli</i>	Human	2009	NL	TEM-52	ST36	90
ESBL-239	<i>E. coli</i>	Poultry	2009	G	TEM-52	ST36	
ESBL-272	<i>E. coli</i>	Poultry	2007	NL	TEM-52	ST36	90
ESBL-30	<i>E. coli</i>	Human	2009	NL	TEM-52	ST36	
ESBL-307	<i>E. coli</i>	Poultry	2008	NL	TEM-52	ST36	90
ESBL-351	<i>E. coli</i>	Poultry	2006	NL	TEM-52	ST36	
ESBL-40	<i>E. coli</i>	Human	2009	NL	TEM-52	ST36	95
ESBL-407	<i>E. coli</i>	Poultry	2007	NL	TEM-52	ST36	
ESBL-408	<i>E. coli</i>	Poultry	2007	NL	TEM-52	ST36	
ESBL-431	<i>E. coli</i>	Poultry	2006	NL	TEM-52	ST36	
ESBL-436	<i>E. coli</i>	Poultry	2006	NL	TEM-52	ST36	
ESBL-444	<i>E. coli</i>	Poultry	2006	NL	TEM-52	ST36	
ESBL-467	<i>E. coli</i>	Poultry	2007	NL	TEM-52	ST36	
ESBL-471	<i>E. coli</i>	Cattle	2007	NL	TEM-52	ST36	
ESBL-472	<i>E. coli</i>	Poultry	2007	NL	TEM-52	ST36	
ESBL-71	<i>E. coli</i>	Human	2009	NL	TEM-52	ST36	95
ESBL-81	<i>E. coli</i>	Human	2009	NL	TEM-52	ST36	
ESBL-92	<i>E. coli</i>	Human	2009	NL	TEM-52	ST36	
NRS40	<i>E. coli</i>	Human	2009	NL	TEM-52	ST36	90
Sal-22	<i>Salmonella</i>	Poultry	2008	NL	TEM-52	ST36	
Sal-30	<i>Salmonella</i>	Poultry	2008	NL	TEM-52	ST36	
Sal-31	<i>Salmonella</i>	Poultry	2008	NL	TEM-52	ST36	
Sal-37	<i>Salmonella</i>	Poultry	2008	NL	TEM-52	ST36	
Sal-45	<i>Salmonella</i>	Poultry	2008	NL	TEM-52	ST36	
Sal-47	<i>Salmonella</i>	Poultry	2008	NL	TEM-52	ST36	
Sal-65	<i>Salmonella</i>	Poultry	2009	G	TEM-52	ST36	
Sal-78	<i>Salmonella</i>	Poultry	2006	G	TEM-52	ST36	
NRS-41	<i>E. coli</i>	Human	2009	NL	TEM-52	ST36	
NRS-20	<i>E. coli</i>	Human	2009	NL	TEM-52	ST36	
NRS-25	<i>E. coli</i>	Human	2009	NL	TEM-52	ST36	
NRS51	<i>E. coli</i>	Human	2009	NL	TEM-52	ST36	
Sal-54	<i>Salmonella</i>		2007	G	TEM-52	ST60	

selected for sequence analysis

* of IncI1 plasmids

** determined as described in Materials and Methods

*** IncI1 plasmids not containing an ESBL/AmpC gene but carrying a class I integron were selected for comparison

Table S2

Representative accessory cassettes

Key	ESBL/AmpC	ST/CC	representative accessory cassettes
ESBL-100	CTX-M-1 lib15	ST7/CC7	repYZ ; <i>tnpA</i> ; <i>hyp</i> gene; <i>sul2</i> ; <i>glmM</i> ; <i>tnpA</i> ; relBE ; <i>hyp</i> gene; <i>bla</i> CTX-M-1; <i>ISEcp1</i> ; yacc *** <i>intl1</i> ; <i>trunc. aadA</i> ; <i>dfrA1</i> ; <i>aadA1</i> ; <i>qacEdelta1</i> ; <i>sul1</i> *..
ESBL-315	CTX-M-1	IC**/-	repYZ ; <i>tnpA</i> ; <i>hyp</i> gene; <i>sul2</i> ; <i>glmM</i> ; <i>tnpA</i> ; relBE ; <i>hyp</i> gene; <i>bla</i> CTX-M-1; <i>ICEcp1</i> ; yacc imm ; <i>hyp</i> gene; <i>hyp</i> gene; <i>hyp</i> gene; <i>sul1</i> ; <i>qacEdelta1</i> ; <i>aadA</i> ; <i>dhfr</i> ; <i>aadA1</i> ; <i>intl1</i> ; <i>tnpR</i> ; <i>tnpA</i> ; <i>hyp</i> gene; <i>hyp</i> gene; <i>hyp</i> gene; <i>tnpR</i> ; parA
ESBL-305	CTX-M-1 lib16	ST3/CC3	repYZ ; <i>tnpA</i> ; <i>hyp</i> gene; <i>tnpA</i> ; <i>tnpR</i> ; <i>tnpM</i> ; <i>intl1</i> ; <i>dfrA17</i> ; <i>aadA5</i> ; <i>tnpA</i> ; <i>insD2</i> ; <i>hyp</i> gene; <i>sul2</i> ; <i>glmM</i> ; <i>tnpA</i> ; relB <i>ISEcp1</i> ; <i>bla</i> CTX-M-1; <i>hyp</i> gene in shufflon
ESBL-78	SHV-12 lib3-E78	ST3/CC3	repYZ ; <i>tnpA</i> ; <i>hyp</i> gene; <i>tnpA</i> ; <i>tnpR</i> ; <i>tnpM</i> <i>estX</i> ; <i>aadA2</i> ; <i>cmIA</i> ; <i>aadA1</i> ; <i>qacH</i> ; <i>tnpA</i> ; <i>sul3</i> ; <i>hyp</i> gene; <i>yusZ</i> ; <i>hyp</i> gene; <i>tnpA</i> ; <i>bla</i> SHV-12; <i>transcrip regulator</i> gene; <i>mcp</i> ; <i>tnpR</i> ; <i>tnpA</i> ; relB
ESBL-12	CTX-M-15 lib08	ST37/-	yagA ; <i>tnpA</i> ; <i>bla</i> CTX-M-15; <i>tnpA</i> ; <i>aac3</i> ; <i>hyp</i> gene; <i>hyp</i> gene; <i>hyp</i> gene; <i>hyp</i> gene; <i>tnpA</i> ; <i>bla</i> TEM-1; yagA
ESBL-4	CTX-M-15 lib3-E499	ST31/CC31	yagA ; <i>tnpA</i> ; <i>hyp</i> gene; <i>bla</i> CTX-M-15; <i>ISEcp1</i> ; <i>tnpA</i> ; <i>tnpA</i> ; <i>tnpR</i> ; <i>bla</i> TEM-1; impB
NRS27	CTX-M-1 lib3-NRS27	ST35/-	yagA ; <i>bla</i> TEM33; <i>tnpA</i> ; <i>tnpR</i> ; impB pilM ; <i>hyp</i> gene; <i>bla</i> CTX-M-1; <i>ISEcp1</i> <i>tnpA</i> ; raC
ESBL-318	CMY-2 lib3-E318	ST12/CC12	yagA ; <i>ISEcp1</i> ; <i>bla</i> CMY-2; <i>blc</i> ; <i>sugE</i> ; <i>hyp</i> gene; yagA
ESBL-272	TEM-52 lib12	ST36/CC5	yafB ; <i>tnpA</i> ; <i>tnpR</i> ; <i>bla</i> TEM52; vagD
E23.68	intl1 lib03	ST26/CC26	yacc ; <i>merR</i> ; <i>merT</i> ; <i>merP</i> ; <i>merC</i> ; <i>merA</i> ; <i>bla</i> TEM-1; <i>tnpR</i> ; <i>tnpA</i> ; <i>merA</i> ; <i>merD</i> ; <i>merE</i> ; <i>urf2</i> ; <i>tniA</i> ; <i>tniB</i> ; <i>hyp</i> gene; <i>sul1</i> ; <i>qacEdelta1</i> ; <i>aadA1</i> ; <i>dfrA1</i> ; <i>trunc. aadA</i> ; <i>intl1</i> ; <i>tnpM</i> ; <i>tnpR</i> ; <i>tnpA</i> ; yadA

*.....: location of accessory module unknown

** incomplete ST

*** genes indicated in bold refer to Collb-P9 genes