

Table S1. Summary of screened cases and sequenced and selected isolates

Collection	Total number of screened cases		Number of sequenced isolates based on AmpC phenotype		N of isolates containing IncI1-pST12 replicon and <i>bla</i> _{CMY-2} gene		N of isolates included in study	
	Human	Broiler	Human	Broiler	Human	Broiler	Human	Broiler
I-4-1 Health study	380	119	19	22	0	11	0	9
Amphia prevalence screening 2017	378	0	14	0	2	0	2	0
<i>E. coli</i> blood cultures 2013-2015	1749	0	51	0	2	0	2	0
<i>Salmonella enteritidis</i> fecal culture	1	0	1	0	1	0	1	0
Total	2508	119	85	22	5	11	5	9

Table S2. Distance matrix containing number of allele differences between the included *E. coli* isolates based on wgMLST

	EC1	EC2	EC3	EC4	EC5	EC6	EC7	EC8	EC9	EC10	EC11	EC12	EC13
EC1	0	0	0	0	0	0	2051	2051	1369	2318	2324	2288	2286
EC2	0	0	0	0	0	0	2053	2053	1370	2320	2326	2290	2288
EC3	0	0	0	0	0	0	2050	2050	1367	2317	2323	2287	2285
EC4	0	0	0	0	0	0	2051	2051	1368	2318	2324	2288	2286
EC5	0	0	0	0	0	0	2053	2053	1370	2320	2326	2290	2288
EC6	0	0	0	0	0	0	2053	2053	1370	2320	2326	2290	2288
EC7	2051	2053	2050	2051	2053	2053	0	1	2021	2338	2344	2304	2302
EC8	2051	2053	2050	2051	2053	2053	1	0	2021	2338	2344	2304	2302
EC9	1369	1370	1367	1368	1370	1370	2021	2021	0	2273	2279	2244	2242
EC10	2318	2320	2317	2318	2320	2320	2338	2338	2273	0	1	2363	2361
EC11	2324	2326	2323	2324	2326	2326	2344	2344	2279	1	0	2369	2367
EC12	2288	2290	2287	2288	2290	2290	2304	2304	2244	2363	2369	0	7
EC13	2286	2288	2285	2286	2288	2288	2302	2302	2242	2361	2367	7	0

Table S3. Overview of resistance genes and phenotype of the fourteen IncI1 pST12 and bla_{CMY-2} containing isolates.

Isolate no.	Species	MultilocusST ^a	Resistance genes	Piperacillin-Tazobactam MIC	Cefotaxime/Ceftriaxone MIC	Ceftazidime MIC	Cefoxitin MIC	Accession no. ^b
EC1	<i>E. coli</i>	ST665	<i>bla</i> _{CMY-2} , <i>bla</i> _{TEM-1b} , <i>aadA1</i> , <i>strA</i> , <i>strB</i> , <i>sul1</i> , <i>sul2</i> , <i>dfra1</i>	8 mg/L	4 mg/L	32 mg/L	≥64 mg/L	ERS4591617
EC2	<i>E. coli</i>	ST665	<i>bla</i> _{CMY-2} , <i>bla</i> _{TEM-1b} , <i>aadA1</i> , <i>strA</i> , <i>strB</i> , <i>sul1</i> , <i>sul2</i> , <i>dfra1</i>	8 mg/L	8 mg/L	32 mg/L	≥64 mg/L	ERS4591618
EC3	<i>E. coli</i>	ST665	<i>bla</i> _{CMY-2} , <i>bla</i> _{TEM-1b} , <i>aadA1</i> , <i>strA</i> , <i>strB</i> , <i>sul1</i> , <i>sul2</i> , <i>dfra1</i>	8 mg/L	4 mg/L	32 mg/L	≥64 mg/L	ERS4591619
EC4	<i>E. coli</i>	ST665	<i>bla</i> _{CMY-2aada1} , <i>strA</i> , <i>strB</i> , <i>sul1</i> , <i>sul2</i> , <i>dfra1</i>	8 mg/L	8 mg/L	32 mg/L	≥64 mg/L	ERS4591620
EC5	<i>E. coli</i>	ST665	<i>bla</i> _{CMY-2} , <i>bla</i> _{TEM-1b} , <i>aadA1</i> , <i>strA</i> , <i>strB</i> , <i>sul1</i> , <i>sul2</i> , <i>dfra1</i>	8 mg/L	4 mg/L	32 mg/L	≥64 mg/L	ERS4591621
EC6	<i>E. coli</i>	ST665	<i>bla</i> _{CMY-2} , <i>bla</i> _{TEM-1b} , <i>aadA1</i> , <i>strA</i> , <i>strB</i> , <i>sul1</i> , <i>sul2</i> , <i>dfra1</i>	8 mg/L	4 mg/L	32 mg/L	≥64 mg/L	ERS4591622
EC7	<i>E. coli</i>	ST86	<i>bla</i> _{CMY-2} , <i>bla</i> _{TEM-1b} , <i>strA</i> , <i>strB</i> , <i>sul2</i> , <i>dfra1</i>	≤4 mg/L	4 mg/L	8 mg/L	32 mg/L	ERS4591623
EC8	<i>E. coli</i>	ST86	<i>bla</i> _{CMY-2} , <i>bla</i> _{TEM-1b} , <i>strA</i> , <i>strB</i> , <i>sul2</i> , <i>dfra1</i>	≤4 mg/L	8 mg/L	8 mg/L	32 mg/L	ERS4591624
EC9	<i>E. coli</i>	ST6856	<i>bla</i> _{CMY-2} , <i>bla</i> _{TEM-1b} , <i>bla</i> _{CMY-2} , <i>bla</i> _{TEM-1b} , <i>QnrS1</i> , <i>aac(6')-Ib-cr</i> , <i>aadA16-like^c</i> , <i>ARR-3</i> , <i>sul1</i> , <i>dfra27</i> , <i>tet(A)-like^c</i>	8 mg/L	8 mg/L	32 mg/L	≥64 mg/L	ERS4591625
EC10	<i>E. coli</i>	ST131	<i>bla</i> _{CMY-2} , <i>bla</i> _{TEM-1b} , <i>QnrS1</i> , <i>aac(6')-Ib-cr</i> , <i>aadA16-like^c</i> , <i>ARR-3</i> , <i>sul1</i> , <i>dfra27</i> , <i>tet(A)-like^c</i>	≥128 mg/L	≥64 mg/L	≥64 mg/L	≥64 mg/L	ERS4591626
EC11	<i>E. coli</i>	ST131	<i>bla</i> _{CMY-2} , <i>bla</i> _{TEM-1b} , <i>QnrS1</i>	8 mg/L	8 mg/L	16 mg/L	≥64 mg/L	ERS4591627
EC12	<i>E. coli</i>	ST973	<i>bla</i> _{CMY-2}	8 mg/L	>64 mg/L	32 mg/L	≥64 mg/L	ERS4591628
EC13	<i>E. coli</i>	ST973	<i>bla</i> _{CMY-2}	8 mg/L	8 mg/L	32 mg/L	≥64 mg/L	ERS4591629
SE1	<i>Salmonella enteritidis</i>	n.a	<i>bla</i> _{CMY-2} , <i>bla</i> _{TEM-1b} , <i>aac(6')-Iaa-like</i> , <i>rmtB</i> , <i>catA2-like^c</i> , <i>tet(A)-like^c</i>	8 mg/L	>4 mg/L	>16 mg/L	>16 mg/L	ERS4591630



Figure S1. Hypervariable region.