

Table S2. *E. coli* isolates from chicken farms (see abbreviations below the table)

Name	Farm	House	Sero-type	Virulence genes	Antibiotic resistance genes	MLST	Broiler (B)/ Parrent (P)	State	Source	Coun-try	Sample dates
E1	1	1	O45:H19	<i>tsh, iucD, ompA, fimA, fimC, iroN, iroD, iucA, iss</i>	-	ST371	B	D	Liver	DK	310315
E2	1	3	O88:H1	<i>cva, tsh, iucD, iss, iroN, iroD, ompA, iucA, fimC, fimA, cvi</i>	<i>aad, bla, cat, str, sul, tet, dfr</i>	ST162	B	D	Liver	DK	310315
E3	2	3	O78:H4	<i>iucD, iss, fimA, ompA, iucA, fimC, iroN, iroD, vat</i>	-	ST117	B	D	Liver	DK	150415
E4	2	2	O78:H4	<i>vat, iucD, iss, ompA, iroD, iroN, iucA, fimC, fimA</i>	-	ST117	B	D	Liver	DK	150415
E5	3	3	O88:H1	<i>cva, cvi, tsh, iucD, iss, iroN, ompA, iucA, fimC, fimA, iroD</i>	<i>aad, bla, cat, str, sul, tet, dfr</i>	ST162	B	D	Liver	DK	150415
E6	3	3	O78:H4	<i>vat, iucD, iss, iucA, iroD, ompA, iroN, fimA, fimC</i>	<i>bla, sul, tet, dfr</i>	ST117	B	D	Liver	DK	150415
E7	4	Unkn	O78:H4	<i>vat, iucD, iss, fimC, iroN, iucA, fimA, iroD, iucA</i>	-	ST117	B	D	Liver	DK	150415
E8	4	Unkn	O78:H4	<i>vat, iucD, iss, iroN, iucA, ompA, fimA, fimC, iroD</i>	<i>bla</i>	ST117	B	D	Liver	DK	150415
E9	5	1	O78:H4	<i>vat, iucD, iss, iroN, iucA, ompA, fimC, fimA, iroD</i>	-	ST117	P	D	BM	FIN	290115
E10	6	1	O78:H4	<i>iucD, iss, iroD, fimC, fimA, iucA, ompA, iroN, vat</i>	-	ST117	P	D	BM	FIN	280115
E11	7	1	O53:H4	<i>cva, iucD, irp2, iss, vat, iucA, iroN, fyuA, ompA, fimA, fimC, cvi, iroD</i>	-	ST117	B	D	BM	FIN	130215
E12	8	1	O78:H4	<i>vat, iucD, iss, iroN, iucA, fimC, fimA, ompA, iroD</i>	-	ST117	B	D	BM	FIN	060215
E13	9	1	O53:H4	<i>cva, vat, iucD, irp2, iss, iroN, fimC, fimA, fyuA, iucA, ompA, cvi, iroD</i>	<i>str</i>	ST117	B	D	BM	FIN	040215
E14	10	1	O53:H4	<i>cva, iucD, irp2, iss, vat, fimC, fimA, ompA, iroN, iucA, fyuA, cvi, iroD</i>	<i>str</i>	ST117	B	D	BM	FIN	120215
E15	11	1	O53:H4	<i>cva, iucD, irp2, iss, iroD, vat, fimA, iroN, iucA, cvi, fyuA, ompA, fimC</i>	<i>str</i>	ST117	B	D	BM	FIN	120215
E16	12	1	O78:H4	<i>vat, iucD, iss, iucA, iroN, fimC, fimA, ompA, iroD</i>	-	ST117	B	D	BM	FIN	130215
E17	13	1	O53:H4	<i>cva, iucD, irp2, iss, vat, fimC, iroN, fyuA, cvi, iroD, ompA, iucA, fimA</i>	<i>str</i>	ST117	B	D	BM	FIN	130215
E18	14	1	O78:H4	<i>vat, iucD, iss, iroN, iroD, ompA, fimC, fimA, iucA</i>	-	ST117	B	D	BM	FIN	130215
E19	15	1	O50O2:H6	<i>cva, vat, tsh, iucD, irp2, iss, iroN, ompA, fimA, cvi, fimC, iucA, fyuA, iucA, iroD</i>	<i>bla</i>	ST141	B	D	Liver	DK	130515
E20	16	2A	O78:H4	<i>vat, iucD, iss, fimC, iroN, fimA, ompA, iucA, iroD</i>	-	ST117	B	D	Liver	DK	130515

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Name	Farm	House	Sero- type	Virulence genes	Antibiotic resistance genes	MLST	Broiler (B)/ Parrent (P)	State	Source	Coun- try	Sample dates
E21	16	1B	O78:H4	<i>irp2, iss, ompA, fimC, fimA, fyuA, iroN, iroD, iucD</i>	<i>tet</i>	ST23	B	D	Liver	DK	130515
E22	17	1	O78:H4	<i>iss, vat, iucD, fimA, fimC, iucA, iroN, ompA, iroD</i>	-	ST117	B	D	Liver	DK	230615
E23	18	1	O78:H4	<i>iss, iucD, vat, fimC, fimA, ompA, iroN, iucA, iroD</i>	-	ST117	B	D	Liver	DK	150715
E24	19	1	O161: H4	<i>iss, irp2, vat, iucD, iroN, ompA, fyuA, iucA, fimA, fimC, papC, iroD</i>	<i>bla, tet</i>	ST117	B	D	Liver	DK	180815
E25	20	1	O18ac: H7	<i>irp2, tsh, vat, iroD iucD, cva, cvi, ibeA, iss fyuA, fimC, fimA, iucA, iroN, ompA</i>	-	ST95	P	D	Unkn	NO	230915
E26	21	Unkn	O78:H4	<i>iss, vat, iucD, iucA, iroN, fimC, fimA, ompA, iroD</i>	-	ST117	P	D	Femur	NO	260815
E27	22	1	O78:H4	<i>iss, vat, iucD, iroN, fimC, fimA, ompA, iucA, iroD</i>	<i>bla</i>	ST117	B	D	Spleen	NO	070915
E28	21	Unkn	O18ac: H7	<i>iucD, irp2, cvi, cva, ibeA, fyuA, iroD, iucA, fimC, fimA, ompA, tsh, vat, iroN</i>	<i>bla</i>	ST95	P	D	Spleen	NO	130915
E29	23	1	O78:H4	<i>iss, iucD, vat, iucA, iroN, ompA, fimC, fimA, iroD</i>	-	ST117	B	D	Liver	NO	160915
E30	24	1	H23	<i>iss, cva, cvi, iroN, fimC, ompA, fimA, iroD</i>	-	ST1163	B	D	Unkn	NO	040815
E31	25	1	O78:H4	<i>iucD, vat, iroN, fimC, iss, fimA, iucA, ompA, iroD</i>	<i>bla</i>	ST117	B	D	Unkn	NO	060815
E32	26	1	O78:H4	<i>iss, iucD, vat, fimC, fimA, iroN, ompA, iucA, iroD</i>	<i>bla</i>	ST117	B	D	Unkn	NO	170815
E33	27	1	O1:H7	<i>iroN, iucA, ompA, cva, cvi fyuA, irp2, fimA, fimC, iroD, papC, iucD, vat, iss</i>	-	ST95	P	D	Unkn	NO	100815
E34	28	Unkn	O149: H23	<i>cva, cvi, iss, iroN, fimC, ompA, iroD, fimA, iss</i>	-	ST1163	Unkn	D	Femur	NO	160915
E35	29	1	O78:H4	<i>iss, iucD, vat, iroN, fimC, fimA, iucA, ompA, iroD</i>	-	ST117	B	D	Liver	DK	230915
E36	29	2	O78:H4	<i>iss, iucD, vat, iroN, fimC, fimA, ompA, iucA, iroD</i>	-	ST117	B	D	Liver	DK	230915
E37	30	1	O1:H7	<i>iss, irp2, iucD, cvi, cva, vat, ompA, iroN, fyuA, iroD iucA, fimC, fimA, papC</i>	-	ST95	B	D	Liver	DK	061015
E38	30	2	O174: H42	<i>irp2, iucD, cva, tsh, cvi, iroN, fimA, fimC, iucA, ompA, fyuA, iroD, iss</i>	<i>tet</i>	ST648	B	D	Liver	DK	061015
E39	31	1	O78:H4	<i>iss, iucD, iroN, iucA, fimC, fimA, ompA, vat, iroD</i>	-	ST117	P	D	BM	FIN	070815
E40	32	1	O78:H4	<i>iss, iucD, vat, iroN, iucA, ompA, fimC, fimA, iroD</i>	-	ST117	P	D	BM	FIN	030815

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Name	Farm	House	Sero-type	Virulence genes	Antibiotic resistance genes	MLST	Broiler (B)/ Parrent (P)	State	Source	Coun-try	Sample dates
E41	33	1	O18ac:H7	<i>iucD, cva, cvi, fimC, tsh, fimA, iucA iroN, ibeA, iss irp2, iroD ompA, vat,</i>	-	ST95	P	D	BM	FIN	240615
E42	34	1	O18ac:H7	<i>irp2, cvi, cva, iucD, fimC, fimA, iroN, ompA, fyuA, tsh iucA, ibeA, vat, iroD, iss</i>	-	ST95	P	D	BM	FIN	280415
E43	35	1	O18:H7	<i>iucD, irp2, cva, cvi, fimC, fimA, fyuA, ompA, ibeA, iucA, tsh, iroN, iroD, iss</i>	-	ST95	P	D	BM	FIN	260515
E44	36	1a	O78:H4	<i>iss, iucD, vat, iroN, fimC, fimA, ompA, iucA, iroD,</i>	-	ST117	P	D	Liver	DK	200415
E45	36	1b	O78:H4	<i>iss, iucD, vat, iroN, iroD ompA, iucA, fimA, fimC</i>	-	ST117	P	D	Liver	DK	200415
E46A	36	2a	H4	<i>iucD, iss, iroN, fimC, ompA, fimA, iroD, iucA, vat</i>	-	ST117	P	D	Liver	DK	200415
E47	36	2b	O78:H4	<i>iss, vat, iucD, iroD, iroN, ompA, iucA, fimA, fimC</i>	-	ST117	P	D	Liver	DK	200415
E48	36	P1	O78:H4	<i>iss, iucD, vat, iroD iroN, iucA, ompA, fimA, fimC</i>	-	ST117	P	D	Liver	DK	200415
E49	36	P2	O78:H4	<i>iss, iucD, vat, iroN, iucA, ompA, fimC, fimA, iroD</i>	-	ST117	P	D	Liver	DK	200415
E50	36	P3	O78:H4	<i>iss iucD, vat, ompA, iroD iroN, fimA, iucA, fimC,</i>	-	ST117	P	D	Liver	DK	200415
E51	37	3a	O2:H5	<i>cva, cvi, irp2, iucD, tsh, iroN, ompA, ibeA, fimC, fyuA, fimA, iucA, iroD, iss</i>	-	ST140	P	D	Liver	DK	210115
E52A	37	3b	O78:H4	<i>vat, iucD, fimC, fimA, iss ompA, iucA, iroN, iroD</i>	-	ST117	P	D	Liver	DK	210115
E53	38	1	H4	<i>iss, iucD, vat, iroN, fimC, ompA, fimA, iucA, iroD</i>	-	ST117	B	D	Liver	DK	2015
E54A	38	2	H4	<i>vat, iucD, iss, fimC, fimA, ompA, iucA, iroN, iroD</i>	-	ST117	B	D	Liver	DK	2015
E56A	40	1	O78:H4	<i>vat, iucD, iroN, iroD ompA, iss iucA, fimA, fimC,</i>	-	ST117	P	D	Liver	DK	170415
E57	40	2	O78:H4	<i>iss, vat, iucD, fimC, iucA, fimA, ompA, iroN, iroD</i>	<i>aad, bla, sul, dfr</i>	ST117	P	D	Liver	DK,	170415
E58	41	1	O78:H4	<i>tsh, irp2, cvi, cva, iss iucD, fimA, iucA, fyuA, fimC iroN, iroD, ompA,</i>	<i>Aad, sul, tet</i>	ST23	B	D	Liver	DK	300415
E59	42	1	O78:H4	<i>iss, iucD, vat, iroN, fimC, fimA, ompA, iucA, iroD</i>	-	ST117	B	D	Liver	DK	100515

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Name	Farm	House	Sero-type	Virulence genes	Antibiotic resistance genes	MLST	Broiler (B)/ Parrent (P)	State	Source	Coun-try	Sample dates
E60	43	1	O78:H4	<i>iss, iucD, vat, iroN, iroD ompA, iucA, fimA, fimC</i>	-	ST117	B	D	Liver	DK	280415
E61	44	2	O50/O2:H5	<i>cva, cvi, irp2, tsh, papC iroN, iucA, fyuA, ibeA, fimC, fimA, ompA, vat, iss, iroD</i>	-	ST95	B	D	Liver	DK	090515
E62	44	1	O50/O2:H5	<i>cva, vat, iucD, irp2, cvi,, ibeA, fimC, fimA, iucA, ompA, fyuA, iroN, iroD</i>	-	ST355	B	D	Liver	DK	090515
E63	45	1	O78:H4	<i>iss, vat iucD, fimA, iucA, iroN, ompA, fimC, iroD</i>	-	ST117	B	D	Liver	DK	280415
E64	46	2	H10	<i>cva, iss, iucD, iroN, iroD, ompA, iucA tsh, cvi</i>	-	ST93	B	D	Liver	DK	210415
E65	47	1	O78:H4	<i>iss, iucD, vat, iucA, iroN, fimC, fimA, ompA, iroD</i>	-	ST117	B	D	Liver	DK	120515
E66A	47	2	O78:H4	<i>vat, iucD, fimC, fimA,, iss iroN, ompA, iucA, iroD</i>	-	ST117	B	D	Liver	DK	120515
E67A	48	1	H4	<i>iss, irp2, iucD, vat,, iroN, fyuA, fimC, fimA, iucA, ompA, iroD</i>	<i>aad, bla, str, sul, tet, dfr</i>	ST117	B	D	Liver	DK	280415
E68A	48	2	H4	<i>iss, irp2, iucD, vat,, iroN, ompA, fyuA, iucA, fimA, fimC, iroD</i>	<i>aad, bla, str, sul, tet, dfr</i>	ST117	B	D	Liver	DK	280415
E69	49	Unkn	O78:H4	<i>iucD, iss, fimC, iroN, iroD, vat, iucA, ompA, fimA</i>	-	ST117	Unkn	D	PT	DK	171115
E72	50	Unkn	H4	<i>cva, cvi, fimA, fimC, iucA iroD, irp2, iss, iucD, iroN, ompA, vat, iss</i>	-	ST117	Unkn	D	PC	DK	171115
E75	51	Unkn	O53:H4	<i>cva, cvi, iroD, iss, irp2, iucD, iroN, fimC, fimA, ompA, fyuA, iucA, vat</i>	<i>str</i>	ST117	Unkn	D	Liver	DK	231115
E77	52	Unkn	O78:H4	<i>iucD, iss, iucA, fimA, iroD, vat, iroN, ompA, fimC</i>	-	ST117	Unkn	D	Femur	DK	301115
E79	53	Unkn	O5:H10	<i>cva, cvi, ompA, fimA, iroD, iss, iucD, iroN, iucA, tsh, ibeA</i>	-	ST93	Unkn	D	PT	DK	281015
E80	54	Unkn	O78:H4	<i>iucD, iss, ompA, iroN, iucA, vat, fimA, fimC, iroD</i>	-	ST117	Unkn	D	Liver	DK	261115
E86	55	Unkn	O78:H4	<i>iucD, iss, vat, iroN, iroD, ompA, fimC, fimA, iucA</i>	-	ST117	P	D	Liver	DK	090116
E87	56	1	O53:H18	<i>cvi, iss, cva, iss, ompA, iroN, fimC, iroD</i>	<i>aad bla, sul, tet, dfr</i>	ST1638	B	D	Liver	DK	070116
E88	57	Unkn	H9	<i>fimA, fimC, ompA</i>	-	ST38	B	D	Liver	DK	201215
E89	43	Unkn	H10	<i>cva, cvi, irp2, fyuA, ompA, fimC, fimA, iss</i>	<i>aad</i>	ST10	B	D	Liver	DK	111215

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E90	58	Unkn	O53:H4	<i>cva, cvi, iss, irp2, iucD, iroN, ompA, fyuA, iucA, fimA, fimC, vat, iroD</i>	<i>str</i>	ST117	B	D	Liver	DK	110116
E91	59	Unkn	O78:H4	<i>iucD, iss, iroD, fimA iucA, vat, iroN, fimC, ompA</i>	-	ST117	B	D	Liver	DK	041215
E92	60	Unkn	O5:H10	<i>cva, cvi, iss, iucD, iroD, iroN, iucD, ompA, tsh</i>	-	ST93	B	D	Liver	DK	071215
E93	57	Unkn	O18:H7	<i>cva, cvi, iroD, iss, iroN, fimA, fimC, ompA</i>	-	Unkn	B	D	Liver	DK	111215
E94	61	Unkn	O78:H4	<i>iucD, iss, iroD vat, iroN, ompA, iucA, fimA, fimC</i>	-	ST117	B	D	Liver	DK	151215
E95	62	Unkn	O78: H49	<i>fimA, fimC, ompA, iss</i>	-	ST2248	Unkn	D	Liver	DK	1. quarter 2016
E96	63	Unkn	O113: H48	<i>fimC, ompA, iss</i>	<i>str, aad, bla, sul, tet, dfr</i>	ST10	Unkn	D	Liver	DK	1. quarter 2016
E97	28	Unkn	O149: H23	<i>cva, cvi, iroN, ompA, fimC, fimA, iroD, iss</i>	-	ST1163	B	D	Femur	NO	160915
E98	64	Unkn	O78:H4	<i>iucD, iss, iroD vat, iroN, ompA, iucA, fimA, fimC</i>	-	ST117	B	D	Femur	NO	161015
E99	65	Unkn	O50/O2: H5	<i>cva, cvi, iroD, iss irp2, iucD, tsh, iroN, ibeA, fyuA, ompA, iucA, fimA, fimC</i>	-	ST140	B	D	PC	NO	231115
E100	66	Unkn	O1:H42	<i>cva, cvi, iucA tsh, iss irp2, iucD, fimC, fimA, ompA, fyuA, iroD, iroN</i>	<i>bla</i>	ST648	P	D	Unkn	NO	261015
E101	67	Unkn	O103: H21	<i>cva, cvi, iroD, iss, iucD, iroN, iucA, ompA, fimC, fimA, tsh</i>	-	ST101	P	D	Liver	NO	250115
E102	68	Unkn	O78:H4	<i>iucD, iss, iroD, vat, fimC, fimA, iroN, ompA, iucA</i>	-	ST117	B	D	Unkn	NO	270915
E104	69	Unkn	O75: H42	<i>ompA, fimC, fimA</i>	<i>str</i>	ST2223	B	D	BM	DK	2015
E105	70	Unkn	O78:H4	<i>iucD, iss, iroD vat, iucA, iroN, fimC, fimA, ompA</i>	-	ST117	B	D	BM	DK	2015
E106	71	Unkn	O18: H49	<i>cva, cvi, iroD iss, iroN, ompA, fimC, fimA</i>	-	ST212	B	D	BM	DK	2015
E107	72	3	O53: H4	<i>cva, cvi, iroD iss, irp2, iucD, iroN, ompA, fyuA, iucA, fimA, fimC, vat</i>	<i>dfr, sul, str, aad</i>	ST117	B	D	BM	DK	2015
E109	Unkn	3	O78:H4	<i>iucD, iss, iroD vat, ompA, iroN, iucA, fimA, fimC</i>	-	ST117	B	D	BM	DK	2015

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E110	43	2	O78:H4	<i>iucD,iss,iroD vat,iroN,fimC,fimA,iuc A,ompA</i>	-	ST117	B	D	BM	DK	2015
E111	73	2	O149: H23	<i>cva,,cvi,iroN,fimC,omp A,iroD,iss</i>	<i>aad, bla, sul, dfr</i>	ST1163	B	D	BM	DK	2015
E112	74	3	O8:H8	<i>cva,cvi,iss,fimA,fimC ompA,iroD,iroN</i>	-	ST109	P	H	Cloaca	DK	July 2015
E113	75	1	O103: H2	<i>cva,cvi,iucD,ompA,iuc A,fimC,fimA,iss</i>	<i>sul, bla</i>	ST1146	P	H	Cloaca	DK	July 2015
E114	76	1	O76: H19	<i>fimA,ompA,fimC</i>	-	ST675	P	H	Cloaca	DK	July 2015
E116	77	1	O103: H2	<i>cva,cvi,iucD,iucA,fimA fimC,ompA</i>	<i>sul, bla</i>	ST1146	P	H	Cloaca	DK	July 2015
E117	78	1	O82: H10	<i>ompA,fimA,fimC,iss</i>	-	ST5625	P	H	Cloaca	DK	July 2015
E118	79	1	O149: H10	<i>cva,cvi,iss,iroN,iroD,o mpA,fimC,iss</i>	-	ST746	P	H	Cloaca	DK	July 2015
E119	80	1	O28ac/ O42: H21	<i>cva,cvi,fimA,ompA, fimC</i>	-	ST3714	P	H	Cloaca	DK	July 2015
E120	81	Unkn	O69: H11	<i>ompA</i>	-	ST10	P	H	Cloaca	DK	July 2015
E121	39	Unkn	O103: H2	<i>Cva,cvi,iucD, fimA,fimC,iucA,ompA</i>	<i>sul, bla</i>	ST1146	P	H	Cloaca	DK	July 2015
E122	82	Unkn	O103: H2	<i>cva,cvi,iucD,fimA,fim C,iucA,ompA</i>	<i>sul, bla</i>	ST1146	P	H	Cloaca	DK	July 2015
E123	83	Unkn	O9:H21	<i>cva,cvi,fimC,fimA, ompA</i>	-	ST1642	P	H	Cloaca	DK	July 2015
E124	84	Unkn	O8:H20	<i>cva,cvi, iucD,iucA,ompA</i>	-	ST155	B	H	Cloaca	DK	100815
E125	85	Unkn	O17/O7 7:H18	<i>iroN,ompA,fimA,fimC ,iucD,cva,cvi,iss</i>	-	ST69	B	H	Cloaca	DK	100815
E126	86	Unkn	O15: H18	<i>cva,cvi,irp2,iss,iucD, fimC,fimA,iucA,ompA, fyuA,iroN,iroD</i>	-	ST69	B	H	Cloaca	DK	170815
E127	87	Unkn	O103:H 2	<i>cva,cvi,iucD,ompA,fim A,fimC,iucA,iss</i>	<i>sul, bla</i>	ST1146	B	H	Cloaca	DK	100815
E128	Unkn	Unkn	O50/O2 :H5	<i>cva,cvi,iss,iucD,irp2,fy uA,ompA,iroN,ibeA,iu cA,fimC,fimA,tsh,iroD</i>	-	ST140	B	D	Liver	PO	1. quarter 2016
E129	Unkn	Unkn	O120: H4	<i>cva,cvi,iss,vat,irp2,om pA,fyuA,iroN,ibeA, iroD,fimA,fimC,iucD</i>	<i>sul</i>	ST428	B	D	Liver	PO	1. quarter 2016

Abbreviations

B: Broiler chickens,	BM: Bone Marrow
P: Parents (layer hens)	PT: Peritoneum
D: Diseased	PC: Pericardia
H: Healthy	Unkn: Unknown