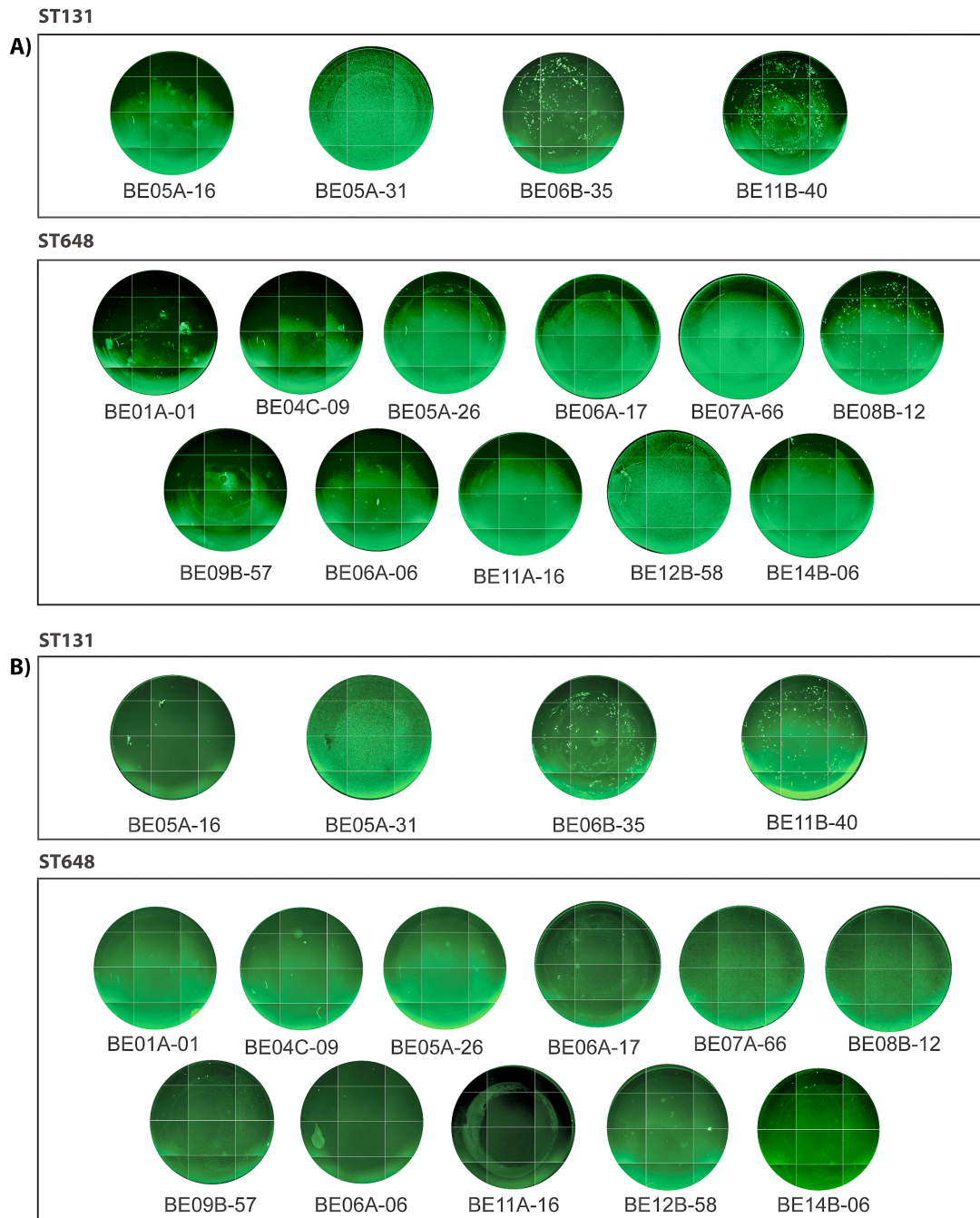


## Supplementary Files



**Supplementary Figure 1. Analysis of exopolysaccharide matrix production of ST131 and ST648 isolates.** Bacterial isolates were grown in 96-well black polystyrene microplate with clear flat bottoms at 28°C (a) and 37°C (b). The isolates were fixed and stained with 25 g/ml FITC-conjugated concanavalin A (green) to assess EPS production. Images are representative of three independent experiments.

**Supplementary Table 1**

Metadata for a set of ST131 and ST648 isolates and reference isolates used for phylogenetic comparison.

<b>Accession</b>	<b>Strain name</b>	<b>Collection date</b>	<b>Country</b>	<b>host status</b>	<b>isolation source</b>
ERR161254	ST-131-B36EC	2007	Australia	disease: pyelonephritis	blood
ERR161318	ST-131-HVM1147	2010	Spain	disease: abdominal abscess	Peritoneal fluid
ERR161319	ST-131-HVM1181	2010	Spain	disease: bacteremia	blood
ERR161320	ST-131-HVM1299	2010	Spain	disease: abdominal abscess	Abdominal abscess
ERR161321	ST-131-HVM1619	2010	Spain	disease: surgical wound infection	Surgical wound
ERR161322	ST-131-HVM1997	2010	Spain	disease: pyelonephritis	urine
ERR161323	ST-131-HVM2044	2010	Spain	disease: pyelonephritis	blood
ERR161324	ST-131-HVM2049	2010	Spain	disease: cystitis	urine
ERR161325	ST-131-HVM2289	2010	Spain	disease: cystitis	urine
ERR161327	ST-131-HVM2757	2010	Spain	disease: cystitis	urine
ERR161315	ST-131-HVM277	2010	Spain	disease: cystitis	urine
ERR161328	ST-131-HVM3017	2010	Spain	disease: urinary tract infection	urine
ERR161329	ST-131-HVM3189	2010	Spain	disease: cystitis	urine
ERR161306	ST-131-HVM5	2010	Spain	disease: pyelonephritis	blood
ERR161308	ST-131-HVM52	2010	Spain	disease: pyelonephritis	urine
ERR161316	ST-131-HVM826	2010	Spain	disease: sepsis	blood
ERR161317	ST-131-HVM834	2010	Spain	disease: urinary tract infection	urine
ERR161326	ST-131-HVR2496	2010	Spain	disease: pyelonephritis	blood
ERR161311	ST-131-HVR83	2010	Spain	disease: pyelonephritis	blood
ERR161252	ST-131-MS2481	2007	Australia	disease: bacteremia	blood
ERR161253	ST-131-MS2493	2007	Australia	disease: bacteremia	blood

ERR161312	ST-131-P112EC	2011	Spain	carriage	rectal swab
ERR161313	ST-131-P146EC	2011	Spain	carriage	rectal swab
ERR161314	ST-131-P189EC	2011	Spain	carriage	rectal swab
ERR161307	ST-131-P50EC	2011	Spain	carriage	rectal swab
ERR161309	ST-131-P53EC	2011	Spain	carriage	rectal swab
ERR161310	ST-131-P56EC	2011	Spain	carriage	rectal swab
ERR161263	ST-131-S100EC	2009	Australia		rectal swab
ERR161264	ST-131-S101EC	2009	Australia		rectal swab
ERR161265	ST-131-S102EC	2010	Australia		urine
ERR161266	ST-131-S103EC	2010	Australia	disease: pyuria	urine
ERR161267	ST-131-S104EC	2008	Australia	disease: urinary tract infection	urine
ERR161268	ST-131-S105EC	2008	Australia	disease: urinary tract infection	urine
ERR161270	ST-131-S107EC	2010	Australia	disease: bacteremia	urine
ERR161271	ST-131-S108EC	2009	Australia	disease: febrile neutropenia	blood
ERR161272	ST-131-S109EC	2009	Australia	carriage	urine
ERR161237	ST-131-S10EC	2009	United Kingdom	disease: urinary tract infection	urine
ERR161273	ST-131-S110EC	2009	Australia	disease: urinary tract infection	urine
ERR161274	ST-131-S111EC	2009	Australia	disease: pyelonephritis	urine
ERR161275	ST-131-S112EC	2009	Australia	disease: urinary tract infection	urine
ERR161276	ST-131-S113EC	2009	Australia		rectal swab
ERR161277	ST-131-S114EC	2011	Australia	disease: urinary tract infection	urine
ERR161278	ST-131-S115EC	2011	Australia	disease: urinary tract infection	urine
ERR161279	ST-131-S116EC	2011	United Kingdom	disease: biliary sepsis	
ERR161280	ST-131-S117EC	2011	United Kingdom	disease: biliary sepsis	
ERR161281	ST-131-S118EC	2011	United Kingdom	disease: urinary tract infection	urine
ERR161282	ST-131-S119EC	2011	United Kingdom	disease: bacteremia	blood
ERR161238	ST-131-S11EC	2009	United Kingdom	disease: urinary tract infection	urine
ERR161283	ST-131-S120EC	2009	Canada	disease: acute cholangitis	blood

ERR161284	ST-131-S121EC	2000	Canada	disease: lower urinary tract infection	urine
ERR161285	ST-131-S122EC	2003	Canada	disease: lower urinary tract infection	urine
ERR161286	ST-131-S123EC	2001	Canada	disease: lower urinary tract infection	urine
ERR161287	ST-131-S124EC	2003	Canada	disease: lower urinary tract infection	urine
ERR161288	ST-131-S125EC	2002	Canada	disease: surgical wound infection	Surgical wound
ERR161289	ST-131-S126EC	2002	Canada	disease: lower urinary tract infection	urine
ERR161290	ST-131-S127EC	2002	Canada	disease: lower urinary tract infection	urine
ERR161291	ST-131-S128EC	2004	Canada	disease: sepsis	blood
ERR161292	ST-131-S129EC	2004	Canada	disease: lower urinary tract infection	urine
ERR161239	ST-131-S12EC	2009	United Kingdom	disease: urinary tract infection	urine
ERR161293	ST-131-S130EC	2004	Canada	disease: lower urinary tract infection	urine
ERR161294	ST-131-S131EC	2002	Canada	disease: lower urinary tract infection	urine
ERR161295	ST-131-S132EC	2005	Canada	disease: lower urinary tract infection	urine
ERR161296	ST-131-S133EC	2005	Canada	disease: urosepsis	blood
ERR161297	ST-131-S134EC	2005	Canada	disease: lower urinary tract infection	urine
ERR161298	ST-131-S135EC	2005	Canada	disease: acute cholangitis	blood
ERR161240	ST-131-S15EC	2009	United Kingdom	disease: urinary tract infection	urine
ERR161241	ST-131-S19EC	2009	United Kingdom	disease: urinary tract infection	urine
ERR161234	ST-131-S1EC	2007	United Kingdom	disease: urinary tract infection	urine
ERR161242	ST-131-S21EC	2009	United	disease:	urine

			Kingdom	urinary tract infection	
ERR161243	ST-131-S22EC	2009	United Kingdom	disease: urinary tract infection	urine
ERR161244	ST-131-S24EC	2009	United Kingdom	disease: urinary tract infection	urine
ERR161245	ST-131-S26EC	2009	United Kingdom	disease: urinary tract infection	urine
ERR161235	ST-131-S2EC	2007	United Kingdom	disease: urinary tract infection	urine
ERR161246	ST-131-S30EC	2007	United Kingdom	disease: urinary tract infection	urine
ERR161300	ST-131-S31EC	2007	United Kingdom	disease: urinary tract infection	urine
ERR161301	ST-131-S32EC	2007	United Kingdom	disease: urinary tract infection	urine
ERR161247	ST-131-S34EC	2009	United Kingdom	disease: urinary tract infection	urine
ERR161302	ST-131-S37EC	2009	United Kingdom	disease: urinary tract infection	urine
ERR161248	ST-131-S39EC	2004	United Kingdom		
ERR161249	ST-131-S43EC	2004	United Kingdom		
ERR161250	ST-131-S47EC	2004	United Kingdom		
ERR161251	ST-131-S53EC	2004	United Kingdom		
ERR161236	ST-131-S5EC	2007	United Kingdom	disease: urinary tract infection	urine
ERR161303	ST-131-S65EC	2009	Australia		urine
ERR161299	ST-131-S6EC	2007	United Kingdom	disease: urinary tract infection	urine
ERR161304	ST-131-S77EC	2010	Australia	disease: urinary tract infection	urine
ERR161305	ST-131-S79EC	2009	Australia		urine
ERR161255	ST-131-S92EC	2009	New Zealand	disease: bacteremia	blood
ERR161256	ST-131-S93EC	2009	New Zealand	disease: bacteremia	blood
ERR161257	ST-131-S94EC	2009	New Zealand	disease: bacteremia	blood
ERR161258	ST-131-S95EC	2009	New Zealand	disease: bacteremia	blood

ERR161259	ST-131-S96EC	2010	New Zealand	disease: bacteremia	blood
ERR161260	ST-131-S97EC	2010	New Zealand	disease: bacteremia	blood
ERR161261	ST-131-S98EC	2008	Australia	carriage	rectal swab
ERR161262	ST-131-S99EC	2009	Australia	carriage	rectal swab
SAMN 02471481	668		Utrecht		urine
SAMN 02138646	BIDMC-19A	2010	Boston, USA		Broncho- alveolar lavage
SAMN 02138647	BIDMC-19B	2010	Boston, USA		urine
SAMN 02138648	BIDMC-19C	2010	Boston, USA		urine
SAMN 02138622	BIDMC-2B	2010	Boston, USA		blood culture
SAMN 02356581	BIDMC-43a	2012	Boston, USA		blood culture
SAMN0213862 6	BIDMC-6	2010	Boston, USA		bile
SAMN 02581401	BIDMC-82	2013	Boston, USA		urine
SAMN 02138640	BIDMC-17A	2009	Boston, USA		blood culture
SAMN0213864 1	BIDMC-17B	2009	Boston, USA		Peritoneal fluid
SAMN 02138623	BIDMC-3	2009	Boston, USA		abdominal incision
SAMN 03217331	CR694	2014	Nambour, Australia	UTI	urine
SAMN 02709589	ECONIH1	2013	USA		rectal swab
	HN80		Bolivia		Environmental River water
SAME A3138842	IS5		Vienna, Austria		unknown
SAMN 02470235	LAU-EC8	2013	Byblos, Lebanon		gastrointestinal
SAMN 02470239	LAU-EC9	2013	Byblos, Lebanon		gastrointestinal
SAMN 02639609	LR09	2006	Arkansas, USA		environmental
SAMN 03145047	NA023	2009	India		prostitis
	E_coli_042				
	E_coli_4608-58				
	E_coli_55989				
	E_coli_CFT073				
	E_coli_E24377A				
	E_coli_ETEC_H10 407				
	E_coli_HS				
	E_coli_IAI39				
	E_coli_LF82				
	E_coli_M4163				

	E_coli_Nissle_1917				
	E_coli_O104-H4_str_2011C-3493				
	E_coli_O127-H6_str_E2348-69				
	E_coli_O157-H7_str_EDL933				
	E_coli_O55-H7_str_RM12579				
	E_coli_O7-K1_str_CE10				
	E_coli_O83-H1_str_NRG_857C				
	E_coli_S88				
	E_coli_SE11				
	E_coli_SMS-3-5				
	E_coli_str_K-12_substr_MG1655				
	E_coli_UMN026				
	E_coli_UTI89				
	S_boydii_Sb227				
	S_dysenteriae_Sd197				
	S_flexneri_2a_str_301				
	S_sonnei_Ss046				

## Supplementary Table 2

PlasmidFinder, ResFinder and VirulenceFinder results on the selected ST131 and ST648 isolates and reference isolates.

sample name	Resistance	Virulence	plasmids schemed	plasmids unschemed	pMLSTs
ST-648-NA023	aac(6')Ib-cr,aadA5,blaCTX-M-15,blaOXA-1,catB3-like,dfrA17,mph(A),strA,strB,sul1,sul2,tet(A)	air,eilA,gad,lpfA	IncFIA, IncFIB(AP001918), IncFII	ColRNAI, Col(MG828)	IncF [F31:A20:B1]
ST-648-LR09	aac(3)-IId-like,aac(6')Ib-cr,aadA5,blaOXA-1,blaTEM-1B,catA1-like,catB3-like,dfrA17,mph(A),strA,strB,sul1,tet(B)	air,eilA,gad,lpfA	IncFII(pRSB107), IncFIA, IncFIB(AP001918)	IncY,ColRNAI, Col(MG828)	IncF[F1:A1:B1]
ST-648-LAU-EC9	aadA2,blaCTX-M-15,catA1-like,dfrA12,erm(B)-like,mph(A),sul1,tet(B)	air,eilA,gad,ihA,lpfA,sat	IncFII(pRSB107), IncFIA, IncFIB(AP001918)	Col(BS512), Col8282,Col156, Col(MG828)	IncF [F48:A1:B49]
ST-648-LAU-EC8	aadA2,blaCTX-M-15,catA1-like,dfrA12,erm(B)-like,mph(A),sul1,tet(B)	air,eilA,gad,ihA,lpfA,sat	IncFII(pRSB107), IncFIA, IncFIB(AP001918)	Col(BS512), Col8282,Col156, Col(MG828)	IncF [F48:A1:B49]
ST-648-IS5	aac(3)-IId-like,blaCTX-M-15,blaTEM-1B,catA1-like,strA,strB,sul2-like,tet(B)	celb,eilA,gad,lpfA	IncFII(pRSB107), IncFIA, IncFIB(AP001918)	ColRNAI, Col(BS512), Col(MG828), Col156, p0111, IncB/O/K/Z	IncF[F1:A1:B1]
ST-648-HN80	aadA5,blaTEM-1B,dfrA17,erm(B)-like,mph(A),strA-like,strB-like,sul1,tet(B)	air,eilA,gad,lpfA	IncFII(pRSB107), IncFIA, IncFIB(AP001918)	Col(BS512), Col8282,Col156, ColpVC	IncF[F1:A1:B1]
ST-648-ECONIH1	aac(6')Ib-like,aac(6')Ib-cr-like,aadA1,aadA5,blaCTX-M-15,blaKPC-2,blaOXA-9,blaTEM-1A,dfrA14-like,dfrA17,erm(B)like,mph(A),strA,strB,sul1,sul2	air,eilA,gad,lpfA	IncFII(pRSB107), IncFIA, IncFIB(AP001918), IncN		IncN[ST-6], IncF [F1:A1:B1]
ST-648-CR694	aac(6')Ib-cr-like,aadA5,blaCMY-42,blaNDM-5,dfrA17,erm(B)like,mph(A),sul1	air,eilA,gad,iss,lpfA	IncFII,IncI1,IncFIB(pB171)	ColRNAI, Col(MG828),IncX3,ColE10,IncX4,Col8282	IncI1[Unknown ST], IncF[F36:A-B32]



	,tet(B)				
ST-648-BIDMC-82	aac(6')-IIC, blaCTX-M-14, blaKPC-2, blaSHV-12, blaTEM-1B, dfrA14-like, ere(A)-like, mph(A), sul1, sul2	air, eilA, gad, iss, lpfA	IncHI2A, IncHI2, IncN	TrfA, ColRNAI, IncX4, IncB/O/K/Z	IncN[ST-6], IncHI2[ST-1]
ST-648-BIDMC-6	aac(6')-IIC, blaKPC-2, blaSHV-12, blaTEM-1B, dfrA14-like, ere(A)-like, mph(A), sul1, sul2	air, eilA, gad, iss, lpfA	IncHI2A, IncHI2, IncN	TrfA, ColRNAI, IncX4, Col(MG828)	IncN[ST-6], IncHI2[ST-1]
ST-648-BIDMC-43a	aac(6')-IIC, blaKPC-2, blaSHV-12, ere(A)-like, sul1, sul2	air, eilA, gad, iss, lpfA	IncHI2A, IncHI2	TrfA, Col(MG828), IncX4, ColRNAI	IncHI2[ST-1]
ST-648-BIDMC-3	aac(6')-IIC, blaKPC-2, blaSHV-12, blaTEM-1B, dfrA14-like, ere(A)-like, mph(A), sul1, sul2	air, eilA, gad, iss, lpfA	IncHI2A, IncHI2, IncN	TrfA, ColRNAI, IncX4, Col(MG828)	IncHI2[ST-1], IncN[ST-6]
ST-648-BIDMC-2B	aac(6')-IIC, blaKPC-2, blaSHV-12, blaTEM-1B, dfrA14-like, ere(A)-like, mph(A), sul1, sul2	air, eilA, gad, iss, lpfA	IncHI2A, IncHI2, IncN	TrfA, ColRNAI, IncX4, Col(MG828)	IncHI2[ST-1], IncN[ST-6]
ST-648-BIDMC-19C	aac(6')-IIC, blaKPC-2, blaSHV-12, blaTEM-1B, dfrA14-like, ere(A)-like, mph(A), sul1, sul2	air, eilA, gad, iss, lpfA	IncHI2A, IncHI2, IncN	TrfA, IncX4, Col(MG828)	IncN[ST-6], IncHI2[ST-1]
ST-648-BIDMC-19B	aac(6')-IIC, blaKPC-2, blaSHV-12, dfrA14-like, ere(A)-like, sul1, sul2	air, eilA, gad, iss, lpfA	IncHI2A, IncHI2, IncN	TrfA, IncX4, Col(MG828)	IncHI2[ST-1], IncN[ST-6]
ST-648-BIDMC-19A	aac(6')-IIC, blaKPC-2, blaSHV-12, blaTEM-1B, dfrA14-like, ere(A)-like, mph(A), sul1, sul2	air, eilA, gad, iss, lpfA	IncHI2A, IncHI2, IncN	TrfA, IncX4, Col(MG828)	IncN[ST-6], IncHI2[ST-1]
ST-648-BIDMC-17B	aac(6')-IIC, blaKPC-	air, eilA, gad, iss, lpfA	IncHI2A, IncHI2, IncN	TrfA, ColRNAI, IncX4,	IncN[ST-6], IncHI2[ST-1]

	2,blaSHV-12,blaTEM-1B,dfrA14-like,ere(A)-like,mph(A),sul1,sul2			Col(MG828)	
ST-648-BIDMC-17A	aac(6')-IIc,blaKPC-2,blaLEN12-like,blaSHV-12,blaSHV-12-like,blaTEM-1B,dfrA14-like,ere(A)-like,mph(A),sul1,sul2	air,eilA,gad,iss,lpfA	IncHI2A,IncHI2,IncN	TrfA,ColRNAI,IncX4,Col(MG828)	IncN[ST-6],IncHI2[ST-1]
ST-648-668	aac(3)-IIa-like,aac(6')Ib-cr,blaCMY-2-like,blaCTX-M-15,blaOXA-1,blaTEM-1B,catB3-like,dfrA25,QnrB2,sul1,tet(A)	air,eilA,lpfA	IncN	Col8282,Col(MG828),ColRNAI,Col156,IncB/O/K/Z	IncN[ST-5]
ST-131-S99EC	aadA5,dfrA17,mph(A),sul1,tet(A)	gad,iha,iss,sat	IncFII,IncFIA	Col8282	IncF[F2:A1:B-]
ST-131-S98EC	aac(3)-IId-like,aac(6')Ib-cr-like,aacA4-like,aadA5,blaOXA-1,blaTEM-1B,catA1-like,catB3-like,dfrA17-like,strA,strB,sul1-like,sul2,tet(B)	gad,iha,iss,sat	IncFII(pRSB107),IncFIA,IncFIB(AP001918)	Col(MG828),IncQ1,Col156,ColRNAI	IncF[F48:A1:B49]
ST-131-S97EC	aac(3)-IIa-like,aac(6')Ib-cr,aadA5,blaCTX-M-15,blaOXA-1,catB3-like,dfrA17,mph(A),strA,strB-like,sul1,sul2,tet(A)-like	gad,iha,ireA,iss,sat,senB	IncFII(pRSB107),IncFIA,IncFIB(AP001918)	IncY,Col(MG828),Col156,ColRNAI	IncF[F1:A1:B16]
ST-131-S96EC	aac(3)-IId-like,blaTEM-1B	gad,iha,iss,sat,senB	IncFII(pRSB107),IncFIA,IncFIB(AP001918)	Col8282,Col156	IncF[F1:A2:B20]
ST-131-S95EC		gad,iha,nfaE,senB	IncFII(29),IncI1,IncFIB(AP001918)	Col156	IncI1[Unknown ST],IncF[F29:A-B10]
ST-131-S94EC	blaTEM-1B,tet(A)	gad,iha,iss,sat	IncFIA,IncFII		IncF[F2:A1:B-]
ST-131-S93EC	aadA5,blaTEM-1B,dfrA17,mph(A),sul1	gad,iha,iss,sat,senB	IncFII(pRSB107),IncFIA,IncFIB(AP001918)	Col156,IncX4,Col(MG828)	IncF[F1:A2:B20]
ST-131-S92EC	blaCMY-2	astA,gad,iha,iroN,iss,mchF,tsh	IncFII(pRSB107),IncI1,IncFIB(AP001918)	IncX1,ColRNAI,Col(MG828)	IncI1[ST-12],IncF[F4:A-B1]

			01918)		
ST-131-S79EC	aadA5,blaCTX-M-15,dfrA17,mph(A),sul1,tet(A)-like	cnf1,gad,iha,iss,sat	IncFII,IncFIA	IncY	IncF[F2:A1:B-]
ST-131-S77EC	blaTEM-1B,dfrA14-like,strA-like,strB,sul2,tet(A),tet(B)	gad,iha,iss,nfaE,sat,senB	IncFII,IncFIB(AP001918),IncN	Col156,Col(MG828)	IncF[F51:A-B10],IncN[ST-3]
ST-131-S6EC	blaCTX-M-15,mph(A)	cnf1,gad,iha,iss,sat	IncFII(pRSB107),IncFIB(pB171)		IncF[F1:A-B23]
ST-131-S65EC	aadA5,blaTEM-1B,dfrA17,mph(A),strA,strB-like,sul1,sul2,tet(A)	gad,iha,nfaE,sat,senB	IncFII(29),IncFIB(AP001918)	Col156	IncF[F29:A-B10]
ST-131-S5EC	aadA5,blaCMY-23,blaTEM-1B,dfrA17,mph(A),sul1,tet(A)	gad,iha,iss,nfaE,sat	IncFII,IncFIA	Col8282,Col(MG828)	IncF[F2:A1:B-]
ST-131-S53EC	aac(6')Ib-cr,aadA5,blaCMY-23,blaCTX-M-15,blaOXA-1,blaTEM-1B,catB3-like,dfrA17,mph(A),sul1,tet(A)	gad,iha,iss,nfaE,sat	IncFII,IncFIA	Col8282,Col(MG828)	IncF[F2:A1:B-]
ST-131-S47EC	aac(3)-IIa-like,aac(6')Ib-cr,aadA1-like,aadA5,blaCMY-23,blaCTX-M-15,blaOXA-1,blaOXA-9,blaTEM-1A,catB3-like,dfrA17,mph(A),strA,strB-like,sul1,sul2,tet(A)	cma,gad,iha,ireA,iroN,iss,nfaE,sat,senB	IncFIA,IncFIB(AP001918),IncFII	ColRNAI,Col(MG828),Col156,IncX4,Col8282,ColpVC	IncF[F88*:A1:B16]
ST-131-S43EC	aac(6')Ib-cr-like,aacA4-like,aadA1,aadA5,blaCMY-23,blaCTX-M-15,blaOXA-1,blaOXA-9,blaTEM-1C,catB3-like,dfrA17,dfrA5,ere(A),mph(A),strA,strB-like,sul1,sul2,tet(A)-like	gad,iss,nfaE	IncFII,IncN,IncFII(K),IncFIA	IncX4,IncB/O/K/Z,ColpVC,Col(MG828)	IncN[Unknown ST],IncF[F2:A1:B-]
ST-131-S39EC	blaTEM-1B,catA1-like,dfrA7,strA-like,strB-like,sul1,sul2,tet(B)	gad,nfaE	IncFII(pRSB107),IncFIA,IncFIB(AP001918),IncFII(pCoo)		IncF[F1:A1:B1]

ST-131-S37EC	aph(3')-la,blaTEM-1B,catA1-like,dfrA14-like,mph(A),strA, strB,sul2,tet(B)	gad,iha,nfaE,sat	IncFII(pRSB107), IncFIA,IncFIB(AP001918),IncFIB(pLF82)	IncQ1	IncF[F1:A1:B1]
ST-131-S34EC		gad,iha,iss,sat,senB	IncFII,IncFIB(AP001918)	Col156	IncF[F51:A-B10]
ST-131-S32EC	aph(3')-la,blaTEM-1B,tet(B)	gad,iha,senB	IncFII(pRSB107), IncFIA,IncFIB(pB171)	Col156	IncF[F1:A1:B23]
ST-131-S31EC	aadA5,blaCMY-23,blaTEM-1B,dfrA17,mph(A),strA,strB-like,sul1,sul2,tet(A)	gad,iha,iss,nfaE,sat	IncFIA,IncFII		IncF[F2:A1:B-]
ST-131-S30EC	tet(B)	cnf1,gad,senB	IncFII(pRSB107), IncFIA,IncFIB(pB171)	Col156	IncF[F1:A1:B23]
ST-131-S2EC	aadA1,blaTEM-1B,dfrA1,sul1,tet(B)	gad,senB	IncFII(pRSB107), IncFIA,IncFIB(pB171)	Col156	IncF[F1:A1:B23]
ST-131-S26EC		gad,iha,iss,nfaE,sat,senB	IncFII(29),IncFIB(AP001918)	Col156	IncF[F29:A-B10]
ST-131-S24EC		gad,iha,iss,nfaE,sat,senB	IncFII(29),IncFIB(AP001918)	Col156	IncF[F29:A-B10]
ST-131-S22EC	aadA2,blaTEM-1B-like,catA1-like,dfrA12,mph(A),sul1	gad,iha,iss,nfaE,sat	IncFII(29),IncFIB(AP001918)	Col(MG828)	IncF[F77:A-B10]
ST-131-S21EC	aac(3)-IIa-like,aadA5,blaCTX-M-15,catB3-like,dfrA17,mph(A)-like,sul1	gad,iha,iss,sat	IncFIA	ColpVC, Col(MG828)	IncF[F-A1:B-]
ST-131-S1EC	aadA1,blaTEM-1A,dfrA1,sul2,tet(B)	gad,iha,iss,sat,senB	IncFII(pRSB107), IncFIB(AP001918)	IncX1,Col156, IncX4, IncB/O/K/Z	IncF[F4:A-B10]
ST-131-S19EC	aac(6')Ib-cr,blaCTX-M-15,blaOXA-1,blaTEM-1B,catB3-like,dfrA1,strA, strB,sul2,tet(A)	gad,iha,iss,sat	IncFIA,IncFII	IncX1, Col(MG828)	IncF[F2:A1:B-]
ST-131-S15EC	aac(3)-IId-like,aadA5,blaCTX-M-14,blaTEM-1B,dfrA17,mph(A),strA,strB-like,sul1,sul2,tet(A)	gad,iha,iss,sat,senB	IncFII(pRSB107), IncFIA, IncFIB(AP001918)	Col156, Col(MG828)	IncF[F1:A2:B20]
ST-131-S135EC	aac(6')Ib-cr,aadA5,blaCTX-M-15,blaOXA-1,catB3-like,dfrA17,mph(A),sul1,tet(A)	gad,iha,iss,nfaE,sat	IncFII,IncFIA	p0111	IncF[F2:A1:B-]
ST-131-S134EC	aac(3)-IId-like,aac(6')Ib-	gad,iha,ireA,iss,nfaE,sat	IncFII(pRSB107), IncFIA,IncFIB(AP	Col(BS512),ColR NAI,IncQ1,Col(	IncF[F48:A1:B49]

	cr,aadA5,blaCTX-M-15,blaOXA-1,blaTEM-1B,catA1-like,catB3-like,dfrA17,mph(A),strA,strB,sul1,sul2,tet(B)-like		001918)	MG828)	
ST-131-S133EC	blaCTX-M-15,tet(A)	gad,iha,iss,sat	IncFII,IncFIA	Col8282,Col(MG828)	IncF[F2:A1:B-]
ST-131-S132EC	aac(3)-IIa-like,aac(6')Ib-cr,aadA1,blaCTX-M-15,blaOXA-1,catB3-like,dfrA15,sul1,tet(A)	cma,gad,iha,iroN,iss,sat	IncFIB(AP001918),IncFII(pCoo)	IncX4,Col(MG828)	IncF[F16:A::B1]
ST-131-S131EC	aac(6')Ib-cr,aadA2,aph(3')-Ia,blaCTX-M-15,blaOXA-1,blaTEM-1B,catB3-like,dfrA12,mph(A),sul1,tet(A)	gad,iha,iss,sat	IncFII,IncFIB(AP001918),IncFIA		IncF[F22:A1:B20]
ST-131-S130EC	aac(6')Ib-cr,aadA5,blaCTX-M-15,blaOXA-1,catB3-like,dfrA17,mph(A),sul1,tet(A)	gad,iha,iss,nfaE,sat	IncFII,IncFIA	Col(MG828)	IncF[F2:A1:B-]
ST-131-S12EC	aac(3)-IIId-like,aac(6')Ib-cr,aadA5,blaCTX-M-15,blaOXA-1,blaTEM-1B,catA1-like,catB3-like,dfrA17,mph(A),strA,strB,sul1,sul2,tet(B)-like	gad,iha,ireA,iss,nfaE,sat	IncFII(pRSB107),IncFIA,IncFIB(AP001918)	Col(BS512),IncY,IncQ1,IncX4,Col(MG828)	IncF[F48:A1:B49]
ST-131-S129EC	aadA1,blaSHV-2-like,dfrA1,sul1,tet(A)	gad,iroN,mchF	IncFII,IncI1,IncFIB(AP001918)	ColRNAI,Col(MG828)	IncI1[ST-26],IncF[F24:A:B40]
ST-131-S128EC	aac(6')Ib-cr,aadA5,blaCTX-M-15,blaOXA-1,catB3-like,dfrA17,mph(A),sul1,tet(A)	gad,iha,iss,sat	IncFII,IncFIA	Col(BS512),Col156,IncX4	IncF[F2:A1:B-]
ST-131-S127EC	blaCTX-M-15	gad,iha,iss,sat	IncFII,IncFIA	Col8282,Col(MG828)	IncF[F2:A1:B-]
ST-131-S126EC	blaCTX-M-15,blaTEM-1B,dfrA14-like,strA,strB,sul2	cma,gad,iha,iroN,iss,mchF,sat	IncFIA,IncFIB(AP001918),IncFII	IncY,IncX4	IncF[F100:A6*:B1]
ST-131-S125EC	aac(3)-IIId-like,aac(6')Ib-	gad,ireA,iss,nfaE	IncFII(pRSB107),IncFIA,IncFIB(AP	Col(BS512),IncY,IncQ1,IncX4,Col	IncF[F48:A1:B49]

	cr,blaCTX-M-15,blaOXA-1,blaTEM-1B,catA1-like,catB3-like,strA,strB,sul2,tet(B)-like		001918)	(MG828)	
ST-131-S124EC	aac(3)-IIa-like,aac(6')Ib-cr,blaCTX-M-15,blaOXA-1,blaTEM-1B,catB3-like,tet(A)-like	gad,iha,iss,sat	IncFIA,IncFII	Col(MG828)	IncF[F2:A1:B-]
ST-131-S123EC	aac(3)-IIa-like,aac(6')Ib-cr,aadA5,blaCTX-M-15,blaOXA-1,blaTEM-1B,catB3-like,dfrA17,mph(A),sul1,tet(A)	gad,iha,iss,sat	IncFIA,IncFIB(AP001918),IncFII	Col8282	IncF[F22:A1:B20]
ST-131-S122EC	aac(3)-IIa-like,aac(6')Ib-cr,blaCTX-M-15,blaOXA-1,blaTEM-1B,catB3-like,tet(A)	gad,iha,iss,sat	IncFIA,IncFII	Col(MG828)	IncF[F2:A1:B-]
ST-131-S121EC	aac(3)-IIId-like,aadA5,blaCTX-M-14,blaTEM-1B,dfrA17,mph(A),strA,strB-like,sul1,sul2,tet(A)	gad,iha,nfaE,sat,senB	IncFII(pRSB107),IncFIA,IncFIB(AP001918)	Col156	IncF[F1:A2:B20]
ST-131-S120EC	aac(3)-IIa-like,aac(6')Ib-cr,blaCTX-M-15,blaOXA-1,blaTEM-1C,catB3-like,strA,strB-like,sul2,tet(A)	gad,iha,iss,sat	IncFIA	IncB/O/K/Z,Col8282,ColRNAI,Col156,Col(MG828)	IncF[F -:A1:B-]
ST-131-S111EC	aac(3)-IIa-like,aac(6')Ib-cr,aadA5,blaCTX-M-15,blaOXA-1,catB3-like,dfrA17,mph(A),sul1,tet(A)	cnf1,gad,iha,iss,sat	IncFII,IncFIB(AP001918),IncFIA		IncF[F31:A20:B1]
ST-131-S119EC	aac(3)-IIa-like,aac(6')Ib-cr,aadA5,blaCTX-M-15,blaOXA-1,catB3-like,dfrA17,mph(A),sul1,tet(A)	cnf1,gad,iha,iss,sat	IncFII,IncFIB(AP001918),IncFIA		IncF[F36:A20:B1]
ST-131-S118EC	blaTEM-1B-like,strA,strB,sul2	gad,iha,iss,sat,senB	IncFII(29),IncFIB(AP001918),IncFII(pCoo)	ColRNAI,Col(MG828),Col156,IncX1,Col8282,IncQ1	IncF[F10:A -:B10]

ST-131-S117EC	aac(3)-IId-like,blaTEM-1B	gad,iha,iss,sat	IncFII(pRSB107),IncFIA	Col8282,Col156	IncF[F1:A2:B-]
ST-131-S116EC	aac(3)-IIa-like,aac(6')Ib-cr,aadA5,blaCTX-M-15,blaOXA-1,blaTEM-1B,catB3-like,dfrA17,sul1	gad,iha,iss,sat	IncFII,IncFIB(AP001918),IncFIA	ColRNAI,Col(MG828)	IncF[F31:A20:B1]
ST-131-S115EC		gad,iha,iss,sat,senB	IncFII(29),IncFIB(AP001918)	Col156	IncF[F29:A:B10]
ST-131-S114EC	aac(3)-IIa-like,aac(6')Ib-cr,aadA5,blaCTX-M-15,blaOXA-1,catB3-like,dfrA17,mph(A),sul1,tet(A)	gad,iha,iss,sat	IncFII,IncFIA	Col8282,Col156,IncY,Col(MG828)	IncF[F2:A1:B-]
ST-131-S113EC	aadA5,blaCTX-M-3,blaTEM-1B-like,dfrA17,fosA,mph(A),strA,strB-like,sul1,sul2,tet(A)	gad,iha,iss,sat,senB	IncFII(pRSB107),IncFIA,IncFIB(AP001918)	IncX1,Col8282,Col156	IncF[F1:A2:B20]
ST-131-S112EC	aac(3)-IIa-like,aac(6')Ib-cr,aadA2,blaCTX-M-15,blaOXA-1,catB3-like,dfrA12,mph(A),sul1,tet(A)	gad,iha,iss,sat	IncFII,IncFIB(AP001918),IncFIA	Col(BS512),Col8282,Col(MG828)	IncF[F36:A1:B20]
ST-131-S111EC	aac(6')Ib-cr,aadA5,blaCTX-M-3,blaTEM-1B-like,dfrA17,fosA,mph(A),strA,strB-like,sul1,sul2,tet(A)	gad,iha,iss,sat	IncFII(pRSB107),IncFIA	IncX1,Col156	IncF[F1:A2:B-]
ST-131-S110EC	aac(6')Ib-cr,aadA5,blaCTX-M-15,blaOXA-1,catB3-like,dfrA17,mph(A),sul1,tet(A)	gad,iha,iss,nfaE,sat	IncFIA,IncFII	Col(MG828)	IncF[F2:A1:B-]
ST-131-S10EC	aac(6')Ib-cr,aadA5,blaOXA-1,catB3-like,dfrA17,mph(A),sul1	gad,iha,iss,sat	IncFIA,IncFII	IncB/O/K/Z,Col156,ColpVC,Col(MG828)	IncF[F2:A1:B-]
ST-131-S109EC	aadA5,blaCTX-M-27,dfrA17,mph(A),strA,strB-like,sul1,sul2,tet(A)	gad,iha,iss,sat,senB	IncFII(pRSB107),IncFIA,IncFIB(AP001918)	Col156,Col(MG828)	IncF[F1:A2:B20]
ST-131-S108EC	aadA5,blaCTX-M-27,dfrA17,mph(A),strA,strB-	gad,iha,iss,sat,senB	IncFII(pRSB107),IncFIA,IncFIB(AP001918)	Col156,Col(MG828)	IncF[F1:A2:B20]

	like,sul1,sul2,tet(A)				
ST-131-S107EC		NA	IncFIB(K), IncHI1B		IncHI1 [Unknown ST], IncF[Unknown ST]
ST-131-S105EC		gad,iha,iss,sat, senB	IncFII(29),IncFIB (AP001918)	Col156,IncX4	IncF[F29:A- :B10]
ST-131-S104EC		gad,iha,iss,sat, senB	IncFII(29),IncFIB (AP001918)	Col156	IncF[F29:A- :B10]
ST-131-S103EC	blaCTX-M- 15,mph(A)	gad,iha,iss,nfaE, sat	IncFII(pRSB107), IncFIB(pB171)	Col8282,Col156	IncF[F1:A-:B23]
ST-131-S102EC	aac(6')Ib- cr,blaCTX-M- 3,blaTEM-1B- like,fosA	gad,iha,iss,sat, senB	IncFII(pRSB107), IncFIA,IncFIB(AP 001918)	IncX1,Col8282, Col156	IncF[F1:A2:B20]
ST-131-S101EC	aac(6')Ib- cr,aadA5,blaCTX -M-15,blaOXA- 1,catB3- like,dfrA17,mph (A),sul1,tet(A)	gad,iha,iss,nfaE, sat	IncFII,IncFIA	Col(BS512), Col156	IncF[F2:A1:B-]
ST-131-S100EC	aadA5,blaCTX- M- 27,dfrA17,mph( A),strA,strB- like,sul1,sul2,tet (A)	gad,iha,iss,sat, senB	IncFII(pRSB107), IncFIA,IncFIB(AP 001918)	Col8282,Col156	IncF[F1:A2:B20]
ST-131-P56EC	aac(6')Ib- cr,aadA5,ARR- 3,blaOXA- 1,blaTEM- 1B,catB3- like,dfrA17,mph (A),strA,strB- like,sul1,sul2,tet (A)	gad,iha,iss,sat, senB	IncFII(pRSB107), IncFIA,IncFIB(AP 001918)	Col156, Col(MG828)	IncF[F1:A2:B20]
ST-131-P53EC	aac(6')Ib- cr,aadA5,blaCTX -M-15,blaOXA- 1,blaTEM-1A- like,catB3- like,dfrA17,mph (A),strA,strB- like,sul1,sul2,tet (A)	gad,iha,iss,sat, senB	IncFII(pRSB107), IncFIA,IncFIB(AP 001918)	Col(MG828), Col156,IncX4, ColRNAI	IncF[F4:A2:B20]
ST-131-P50EC	blaTEM-1B	celb,gad,iss,sat	IncFII(pRSB107), IncFIA,IncFIB(AP 001918)	Col(MG828), Col(pWES),ColR NAI,Col156, IncX1,Col8282, IncB/O/K/Z	IncF[F1:A2:B20]
ST-131-P189EC	aac(3)-IId- like,aadA5,blaT EM- 1B,dfrA17,sul1	gad,iha,iss,sat, senB	IncFIA,IncFIB(AP 001918)	Col156, Col(MG828)	IncF[F-:A2:B20]
ST-131-P146EC	aac(3)-IId- like,aadA5,blaT EM-1B- like,dfrA17,strA, strB-like,sul2	gad,iha,iss,sat, senB	IncFII(pRSB107), IncFIA,IncFIB(AP 001918),IncFII	Col(BS512), Col(MG828), IncB/O/K/Z, ColRNAI	IncF [F1:A2:B20*]
ST-131-P112EC		astA,gad,ireA,ir oN,iss,mchF,vat	IncFII,IncFIB(AP 001918)	ColRNAI	IncF[F24:A- :B1*]



ST-131-MS2493	aadA5,blaTEM-1B,dfrA17,mph(A),strA,strB-like,sul1,sul2,tet(A)	gad,iha,iss,sat,senB	IncFII(pRSB107),IncFIA,IncFIB(AP001918)	Col156	IncF[F1:A2:B20]
ST-131-MS2481	aadA5,blaTEM-1B,dfrA17,mph(A),sul1,tet(A)	gad,iha,ireA,iss,sat	IncFIA,IncFIB(AP001918),IncFII	Col8282,Col(MG828)	IncF[F22:A1:B20]
ST-131-HVR83	aadA5,blaTEM-1B-like,dfrA17-like,mph(A),strA,strB-like,sul1,sul2,tet(A)	gad,iha,iss,sat,senB	IncFIA,IncI1,IncFIB(AP001918)	ColRNAI,Col(MG828),Col156,IncX1,IncX4,Col8282	IncI1[Unknown ST],IncF[F -:A2:B20]
ST-131-HVR2496	blaTEM-1B	gad,iha,iss,sat,senB	IncFII(pRSB107),IncFIA,IncFIB(AP001918)	Col8282,Col156,ColpVC	IncF[F1:A2:B20]
ST-131-HVM834	aac(6')Ib-cr,aadA5,blaCTX-M-15,blaOXA-1,blaTEM-1A,catB3-like,dfrA17,mph(A),sul1,tet(A)	gad,iha,iss,nfaE,sat	IncFII(pRSB107),IncFII,IncI1,IncFIA	ColRNAI,Col(MG828),Col156,IncX1,IncX4,Col8282	IncI1[Unknown ST],IncF[F2:A1:B-]
ST-131-HVM826	blaTEM-1A	gad,iha,sat	IncFII(pRSB107),IncFIA,IncFIB(AP001918),IncFII(pCoo)	Col156	IncF[F1:A2:B20]
ST-131-HVM52	blaTEM-1C,tet(A)-like	cnf1,gad,iroN,iss,mchF	IncFII(pRSB107),IncFII,IncI1,IncFIB(AP001918)	IncB/O/K/Z,ColRNAI	IncF[F2:A -:B1],IncI1[Unknown ST]
ST-131-HVM5		gad,iha,iss,sat,senB		Col8282,ColRNAI,Col156,Col(MG828)	NA
ST-131-HVM3189	aac(3)-IId-like,aadA5,blaTEM-1B,mph(A),strA,strB-like,sul1,sul2,tet(A)	gad,iha,iss,sat,senB	IncFII(pRSB107),IncFIA,IncFIB(AP001918)	Col8282,Col156,Col(MG828)	IncF[F1:A2:B20]
ST-131-HVM3017	aac(6')Ib-cr,blaCTX-M-15,blaOXA-1,catB3-like,tet(A)	cnf1,gad,iha,iss,sat	IncFII,IncFIB(AP001918),IncFIA		IncF[F36:A20:B1]
ST-131-HVM277	blaTEM-1C,tet(A)	astA,cnf1,gad,iroN,iss,mchF	IncFII,IncFIB(AP001918)	ColRNAI,Col(MG828)	IncF[F2:A -:B1]
ST-131-HVM2757	aadA1,aadA2,blaTEM-1B,cmlA1-like,dfrA12,sul3,tet(B)	gad,ireA,iroN,iss,mchF,vat	IncFIA(HI1),IncHI1B(R27),IncFIC(FII),IncFIB(AP001918),IncHI1A	p0111,ColRNAI,ColpVC,Col(MG828)	IncHI1[Unknown ST],IncF[F18:A8:B1]
ST-131-HVM2289	aadA1,aadA2,blaTEM-1C,cmlA1-like,dfrA12,sul3,tet(A)	ccl,cnf1,gad,iroN,iss,mchF	IncFII,IncI1,IncFIB(AP001918)	ColRNAI	IncI1[ST-48],IncF[F2:A -:B1]
ST-131-HVM2049		gad,ireA,iroN,iss,mchF,vat	IncFII,IncFIB(AP001918)	Col156,ColRNAI	IncF[F24:A -:B1*]
ST-131-HVM2044	aadA1,aadA2,blaTEM-	ccl,cnf1,gad,iroN,iss,mchF	IncFII,IncI1,IncFIB(AP001918)	ColRNAI	IncF[F2:A -:B1],IncI1[ST-

	1C,cmlA1-like,dfrA12,sul3,tet(A)				48]
ST-131-HVM1997	aac(6')lb-cr,aadA5,blaCTX-M-15,blaOXA-1,catB3-like,dfrA17,mph(A),sul1,tet(A)	gad,iha,iss,nfaE,sat	IncFII,IncFIA	Col8282,Col156,ColRNAI	IncF[F2:A1:B-]
ST-131-HVM1619	aac(6')lb-cr,aadA5,blaCTX-M-15,blaOXA-1,catB3-like,dfrA17,mph(A),sul1,tet(A)	gad,iha,iss,nfaE	IncFII,IncFIA	Col8282,ColRNAI,Col156,IncX4,Col(MG828)	IncF[F2:A1:B-]
ST-131-HVM1299	aac(6')lb-cr,blaCTX-M-15,blaOXA-1,catB3-like,tet(A)	cnf1,gad,iha,iss,sat	IncFIA,IncFIB(AP001918),IncFII		IncF[F36:A20:B1]
ST-131-HVM1181		gad,ireA,iroN,iss,mchF,vat	IncFII,IncFIB(AP001918)	ColRNAI	IncF[F24:A-B1*]
ST-131-HVM1147		gad,iha,iss,nfaE,sat,senB	IncFII(29),IncFIB(AP001918)	Col156	IncF[F29:A-B10]
ST-131-B36EC	aac(6')lb-cr,aadA5,blaCTX-M-15,blaOXA-1,catB3-like,dfrA17,mph(A),sul1,tet(A)	gad,iha,iss,nfaE,sat	IncFII,IncFIA	Col(MG828)	IncF[F2:A1:B-]
S_sonnei_Ss046	aadA1,dfrA1,stra,straB,sul2,tet(A)-like	capU,gad,ipaD,ipaH9.8,lpfA,senB,sigA,virF	IncFII	Col(BS512),Col156,ColRNAI	IncF[F27:A-B-]
S_flexneri_2a_str_301		capU,gad,ipaD,ipaH9.8,lpfA,pic,sepA,sigA,virF	IncFII		IncF[F27:A-B-]
S_dysenteriae_Sd197		capU,gad,ipaD,ipaH9.8,iroN,stx1A,stx1B	IncFII	ColE10	IncF[F25:A-B-]
S_boydii_Sb227		capU,gad,iha,ipaH9.8,senB,sigA,virF	IncFII		IncF[F27:A-B-]
E_coli_UTI89		cnf1,gad,iroN,iss,senB,sfaS,vat	IncFII(29),IncFIB(AP001918)	Col156	IncF[F29:A-B10]
E_coli_UMN026	aadA5,blaTEM-1B,catA1-like,dfrA17,mph(A),sul1,tet(B)	air,eilA,gad,iha,iss,lpfA,sat,senB	IncFII(29),IncFIB(AP001918)	IncX1,Col156	IncF[F29:A-B10]
E_coli_str_K-12_substr_MG1655		gad,iss			NA
E_coli_SMS-3-5	aadA2,aph(3')-la,blaTEM-1B,catA2-like,dfrA14-like,stra-like,straB-like,sul2,tet(A)	air,astA,cma,eilA,gad,iha,lpfA	IncFII,IncFIB(AP001918)	Col8282,ColRNAI	IncF[F24:A-B1]
E_coli_SE11	tet(C)-like	gad,iss,lpfA	IncFII(pSE11),IncI1,IncFIB(AP001918)	Col8282,ColRNAI	IncI1[ST-14],IncF[F20:A-B12]
E_coli_S88		gad,ireA,iroN,iss	IncFII,IncFIB(AP		IncF[F24:A-B1]

		,mchF,vat	001918)		
E_coli_O83-H1_str_NRG_857C	aadA1,blaTEM-1B-like,catA1-like,dfrA1,mph(B),strA,strB,sul1,sul2,tet(A)	cma,gad,iroN,iss,vat	IncFIC(FII),IncFIB(AP001918)	IncQ1	IncF[F18:A-:B1]
E_coli_O7-K1_str_CE10		air,capU,eilA,gad,iha,iss,lpfA,sat,senB	IncFII(29),IncFIB(AP001918)	Col(MG828),Col156,ColRNAI	IncF[F29:A-:B10]
E_coli_O55-H7_str_RM12579	blaTEM-1B,strA,strB,sul2	astA,ea,e,efa1,espA,espB,espF,espJ,etpD,gad,iss,nleA,nleB,nleC,tccP,tir	IncFIB(AP001918)	p0111,ColRNAI	IncF[F-:A-:B15]
E_coli_O157-H7_str_EDL933		astA,ea,e,ehxA,espA,espB,espF,espJ,espP,etpD,gad,iha,iss,katP,nleA,nleB,nleC,ctx1A,ctx1B,ctx2A,ctx2B,tccP,tir,toxB	IncFII,IncFIB(AP001918)		IncF[F23:A-:B3]
E_coli_O127-H6_str_E2348-69	strA,strB,sul2	astA,bfpA,cif,ea,e,efa1,espA,espC,espF,espJ,gad,nleA,nleB,nleC,perA,tir	IncFIB(pB171),IncFII(pCoo)	ColRNAI	IncF[F13:A-:B23]
E_coli_O104-H4_str_2011C-3493	blaCTX-M-15,blaTEM-1B,dfrA7,strA,strB,sul1-like,sul2,tet(A)	aaiC,aap,aar,aatA,aggA,aggB,aggC,aggD,aggR,capU,gad,iha,lpfA,mchB,mchC,mchF,ORF3,ORF4,pic,sepA,sigA,ctx2A,ctx2B	IncFII(pRSB107),IncI1,IncFIB(AP001918)	IncQ1,Col(MG828)	IncI1[ST-31],IncF[F48:A-:B25]
E_coli_Nissle_1917		gad,iha,iroN,iss,mchB,mchC,mchF,mcmA,pic,sat,vat		Col(MGD2),ColRNAI	NA
E_coli_M4163		capU,gad,ipaD,senB,virF	IncFII	Col(MG828)	IncF[F28:A-:B-]
E_coli_LF82		gad,iss,vat			NA
E_coli_IAI39		air,capU,eilA,gad,lpfA			NA
E_coli_HS		gad			NA
E_coli_ETEC_H10407		astA,cfaC,eatA,gad,ltcA,sta1	IncFII(29),IncFII	Col(MGD2)	IncF[F12:A-:B-]
E_coli_E24377A	strA,strB,sul2	astA,capU,eatA,gad,lpfA,ltcA	IncI1,IncFII(pHN7A8),IncFII(pCoo)	ColRNAI	IncI1[UnknownST],IncF[F11:A-:B-]
E_coli_CFT073		gad,iha,ireA,iroN,iss,mchB,mchC,mchF,mcmA,pic,sat,vat			NA
E_coli_55989	tet(B)	aaiC,capU,gad,iha,lpfA,pic,sigA			NA
E_coli_4608-58		capU,gad,iha,ipaD,senB,sigA,virF	IncFII		IncF[F28:A-:B-]
E_coli_042	aadA1,catA1-like,sul1,tet(A)	aafA,aafB,aafC,aafD,aaiC,aap,aar,aatA,aggR,air,a	IncFIC(FII)		IncF[F9:A-:B-]

		stA,capU,eilA,gad,lpfA,mchB,mchC,mchF,mcmA,ORF3,ORF4,pet,pic			
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