



*Research article*

**Comparative genome analysis of 15 clinical *Shigella flexneri* strains regarding virulence and antibiotic resistance**

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**Table S1** Theoretical predication of antibiotic resistance genes (ARGs), virulence factor genes (VFGs), and plasmids in 15 clinical *Shigella flexneri* strains, together with multi-locus strain and plasmid typing.

Sample Name	Species	Serotype	MDR	MLST	Plasmids	pMLSTs	Resistance Genes	Virulence Genes
S13016	<i>Shigella flexneri</i>	F2a	0	ST-245	NA	NA	NA	sigA, lpfA, pic, gad
S13028	<i>Shigella flexneri</i>	F2b	9	ST-245	ColRNAI	IncN[ST-1], IncF[F27*:A-B-], IncI1[ST-16]	tet(A), tet(B), dfrA1, catA1, blaTEM-1C, blaOXA-1, blaCTX-M-55, aadA24, aac(3)-Iid	sigA, gad, lpfA, pic, virF, sepA, capU, ipaD
S13048	<i>Shigella flexneri</i>	F1a	6	ST-245	ColRNAI	NA	aadA24, strA, strB, sul2, dfrA1, tet(B), catA1, blaOXA-1	pic, lpfA, sigA, gad
S13068	<i>Shigella flexneri</i>	F2b	7	ST-245	IncX1, ColRNAI, IncB/O/K/Z	IncF[F27*:A-B-]	aadA1, strB, sul3, dfrA1, blaCTX-M-14, blaTEM-1B, tet(A)	sigA, gad, lpfA, pic, virF, sepA, capU, ipaD
S13073	<i>Shigella flexneri</i>	F1a	9	ST-245	ColRNAI, IncB/O/K/Z	IncF[F27*:A-B-]	aadA24, aadA5, aac(3)-Iid, mph(A), sul1, dfrA17, dfrA1, tet(B), catA1, blaCTX-M-14, blaOXA-1	sigA, gad, lpfA, pic, virF, sepA, capU, ipaD
S13091	<i>Shigella flexneri</i>	F2a	9	ST-245	ColRNAI, IncB/O/K/Z	IncF[F27*:A-B-]	aadA24, aadA5, aac(3)-Iid, mph(A), sul1, dfrA17, dfrA1, tet(B), catA1, blaCTX-M-14, blaOXA-1	sigA, gad, lpfA, pic, virF, sepA, capU, ipaD
S13109	<i>Shigella flexneri</i>	F2a	8	ST-245	ColRNAI	IncF[F27*:A-B-]	aadA24, strB, strA, sul2, dfrA1, tet(B), catA1, blaOXA-1	sigA, gad, lpfA, pic, sepA, capU
S13126	<i>Shigella flexneri</i>	F2a	9	ST-245	ColE10, ColRNAI	IncN[Unknown ST], IncF[F27*:A-B58*]	fosA, aadA24, strA, strB, rmtB, sul2, dfrA1, tet(B), tet(A), catA1, floR, blaCTX- M-55, blaTEM-1B, blaOXA- 1	sigA, gad, lpfA, pic, virF, sepA, capU, ipaD

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Sample Name	Species	Serotype	MDR	MLST	Plasmids	pMLSTs	Resistance Genes	Virulence Genes
S14007	<i>Shigella flexneri</i>	F2a	6	ST-245	Col(BS512), ColIRNAI	IncF[F103*:A-:B58*]	aadA24, strB, strA, sul2, dfrA1, tet(B), catA1, blaOXA-1, blaCTX-M-15	sigA, gad, lpfA, pic, virF, sepA, capU, ipaD
S14013	<i>Shigella flexneri</i>	F2a	7	ST-245	Col(MG828), ColIRNAI, IncB/O/K/Z	IncF[F27*:A-:B-]	aacA4, aadA24, dfrA1, tet(B), catA1, cmlA1, blaCTX-M-14, blaOXA-1, aac(6')Ib-cr	sigA, gad, lpfA, pic, virF, sepA, capU, ipaD
S14046	<i>Shigella flexneri</i>	F1a	7	ST-245	ColIRNAI	IncF[F2*:A-:B-]	aadA24, strB, strA, aac(3)-IIId, aadA5, fosA, mph(A), sul2, dfrA1, dfrA17, tet(B), catA1, blaTEM-1B, blaCTX-M-15, blaOXA-1	sigA, gad, lpfA, pic, virF, sepA, capU, ipaD
S14131	<i>Shigella flexneri</i>	F2a	6	ST-245	Col156, ColIRNAI	IncF[F27*:A-:B-]	dfrA1, aadA24, catA1, blaOXA-1, tet(B)	sigA, gad, lpfA, pic, virF, sepA, capU, ipaD
S15008	<i>Shigella flexneri</i>	F1a	7	ST-245	Col(MG828), ColIRNAI, IncB/O/K/Z	IncF[F27*:A-:B-]	aadA24, aac(3)-IIId, aadA5, mph(A), sul1, dfrA17, dfrA1, tet(B), catA1, blaCTX-M-14, blaOXA-1	sigA, gad, lpfA, pic, virF, sepA, capU, ipaD
S15054	<i>Shigella flexneri</i>	F1b	0	ST-245	Col(MG828), ColIRNAI	NA	sul2	lpfA, gad
S15097	<i>Shigella flexneri</i>	F2a	7	ST-245	Col(MG828), Col156, ColIRNAI	IncI1[Unknown ST], IncF[F27*:A-:B-]	aadA24, dfrA1, catA1, blaCTX-M-55, blaOXA-1, tet(B)	sigA, gad, lpfA, pic, virF, sepA, capU, ipaD



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