

Table S1. Sequence types, antimicrobial susceptibility and associated resistome

ST	Sample name	AST phenotype	AGM R	Flq R	MLS R	PheR	Sul R	Tet R	Tmt R	bla R	ESBL	bla Carb R	Intrinsic β -lactamase	OmpK carbapenem R
ST101	HishK5	MDR, CR	<i>aac(3)-IIa; aadA; strA;strB</i>	<i>qnrS1</i>	-	<i>catII</i>	<i>sul2</i>	-	<i>dfrA14</i>	<i>OXA-1; TEM-1D</i>	CTX-M-15	NDM-1	SHV-1	-
	HishK7	MDR-CR	<i>aac(3)-IIa; strA;strB</i>	-	-	<i>catII</i>	<i>sul2</i>	<i>tet(D)</i>	<i>dfrA14</i>	TEM-1D	CTX-M-15	-	SHV-1	ompK35 substitution (G947A). Premature stop codon at amino acid position 316
	K11	MDR	<i>aac(3)-IIa; strA;strB</i>	-	-	<i>catII</i>	<i>sul2</i>	<i>tet(D)</i>	<i>dfrA14</i>	TEM-1D	CTX-M-15	-	SHV-1	
	K12	MDR	<i>aac(3)-IIa; strA;strB</i>	-	-	<i>catII</i>	<i>sul2</i>	<i>tet(D)</i>	<i>dfrA14</i>	TEM-1D	CTX-M-15	-	SHV-1	
	K5	MDR	<i>aac(3)-IIa; strA;strB</i>	-	-	<i>catII</i>	<i>sul2</i>	<i>tet(D)</i>	<i>dfrA14</i>	TEM-1D	CTX-M-15	-	SHV-1	
	K9	MDR	<i>aac(3)-IIa; strA;strB</i>	-	-	<i>catII</i>	<i>sul2</i>	<i>tet(D)</i>	<i>dfrA14</i>	TEM-1D	CTX-M-15	-	SHV-1	
ST11	LH_F139	MDR, CR	<i>aac(6')-Ib; aadA2; aph3-Ia;rmtF</i>	<i>qnrB1</i>	<i>mphA</i>	-	<i>sul1</i>	-	<i>dfrA12</i>	-	CTX-M-15	NDM-4	SHV-11	-
ST1198	LH_F137	S	-	-	-	-	-	-	-	-	-	-	SHV-11	-
ST13	LH_R290	MDR	<i>aac(3)-IIa</i>	-	-	-	-	-	-	SCO-1; TEM-1D	CTX-M-15	-	SHV-1	-
ST1447	LH_F68	S	-	-	-	-	-	-	-	-	-	-	SHV-27	-
ST147	K13	MDR	<i>aac(3)-IIa</i>	-	-	-	-	-	-	SCO-1	CTX-M-15	-	SHV-11	

	K3	MDR	<i>aac(3)-IIa</i>	-	-	-	-	-	-	SCO-1	CTX-M-15	-	SHV-11	
	LH_R289	MDR, CR	<i>aac(6')-Ib-cr</i> ; <i>aph(3')-VI</i>	<i>qnrS1</i>	-	<i>catB3</i>	<i>sul1</i>	-	-	OXA-1	CTX-M-15	NDM-1	SHV-11	
	LH_R344	MDR, CR	<i>aac(6')-Ib'</i> ; <i>aadA</i> ; <i>aph(3')-VI</i> ; <i>armA</i>	<i>qnrS1</i>	<i>mphA</i> ; <i>mphE</i> ; <i>msrE</i>	-	<i>sul1</i> ; <i>sul2</i>	-	<i>dfrA5</i>	OXA-9; TEM-1D	CTX-M-15	NDM-5	SHV-11	
	LH_F18	MDR, CR	<i>aac(6')-Ib-cr</i> ; <i>aph(3')-VI</i>	<i>qnrS1</i>	-	<i>catB3</i>	<i>sul1</i>	-	-	OXA-1	CTX-M-15	NDM-1	SHV-11	
	LH_F97	MDR	<i>aac(6')-Ib'</i> ; <i>aad</i>	-	-	-	-	-	-	OXA-9; TEM-1D	-	-	SHV-11	
	LH_F134	MDR, CR	<i>aadA2</i> ; <i>aph(3')-VI</i> ; <i>strA</i> ; <i>strB</i>	-	<i>mphA</i>	<i>catII</i>	<i>sul1</i>	-	<i>dfrA12</i>	-	CTX-M-15	NDM-1	SHV-11	
	LH_R387	MDR, CR	<i>aadA</i> ; <i>aph(3')-VI</i>	<i>qnrS1</i>	<i>mphA</i>	<i>catB3</i>	<i>sul1</i>	-	-	OXA-1; OXA-9; TEM-1D	CTX-M-15	NDM-1	SHV-11	
	LH_F149	MDR, CR	<i>aadA</i> ; <i>aph(3')-VI</i>	<i>qnrS1</i>	<i>mphA</i>	<i>catB3</i>	<i>sul1</i>	-	-	OXA-1; OXA-9; TEM-1D	CTX-M-15	NDM-1	SHV-11	
ST15	HishK3	MDR	<i>aac(3)-IIa</i> ; <i>aac(6')-Ib-cr</i>	-	-	<i>catB4</i> ; <i>catA1</i>	<i>sul1</i>	-	-	CMY-4; OXA-1	CTX-M-15	-	SHV-28	-
	HishK4	MDR	-	-	-	-	-	-	-	CMY-4	-	-	SHV-28	-
	K8	MDR	<i>aac(3)-IIa</i> ; <i>aac(6')-Ib-cr</i>	-	-	<i>catA1</i>	<i>sul1</i>	-	-	CMY-4	CTX-M-15	-	SHV-28	-
	LH_F104	MDR	<i>aadA1</i>	-	-	-	<i>sul1</i>	<i>tet(A)</i>	<i>dfrA1</i>	TEM-1D	CTX-M-15	-	SHV-28	-
	LH_F122	MDR	<i>aadA1</i>	-	-	-	<i>sul1</i>	<i>tet(A)</i>	<i>dfrA1</i>	TEM-1D	CTX-M-15	-	SHV-28	-
	LH_F164	MDR, CR	<i>aac(3)-IIa</i> ; <i>aac(6')-Ib-cr</i> ;	<i>qnrS1</i>	<i>mphA</i>	<i>catB4</i> ; <i>catA1</i>	<i>sul2</i>	<i>tet(A)</i> ; <i>tet(D)</i>	<i>dfrA14</i>	OXA-1	CTX-M-15	-	SHV-28	OmpK35 substitution (G690A).

			<i>aph(3')-VI;</i> <i>strA;strB</i>											Premature stop codon at amino acid position 230
ST17	HishK11	MDR	-	-	-	<i>catA1</i>	-	<i>tet(D)</i>	-	<i>TEM-1D</i>	-	-	<i>SHV-11</i>	-
	HishK12	MDR, CR	<i>aac(3)-IIa;</i> <i>aac(6')-Ib-</i> <i>cr;</i> <i>aadA5</i>	<i>qnrS1</i>	<i>mphA</i>	<i>catB4;</i> <i>catA1</i>	<i>sul1</i>	<i>tet(D)</i>	<i>dfrA17</i>	<i>OXA-1</i>	<i>CTX-M-15</i>	<i>NDM-1</i>	<i>SHV-11</i>	-
	HishK13	MDR	-	-	-	<i>catA1</i>	-	<i>tet(D)</i>	-	<i>TEM-1D</i>	-	-	<i>SHV-11</i>	-
	LH_R223	MDR	<i>strA;strB</i>	-	-	-	<i>sul2</i>	-	-	<i>TEM-1D</i>	<i>CTX-M-15</i>	-	<i>SHV-11</i>	-
ST20	HishK10	MDR	-	<i>qnrS1</i>	-	-	-	-	<i>dfrA14</i>	-	<i>CTX-M-15</i>	-	<i>SHV-187</i>	-
	K10	MDR, CR	<i>aac(3)-IIa;</i> <i>aac(6')-Ib-</i> <i>cr;</i> <i>aadA5;</i> <i>aph(3')-VI</i>	<i>qnrS1</i>	<i>mphA</i>	<i>catB0</i>	<i>sul1</i>	-	<i>dfrA17</i>	<i>OXA-1</i>	<i>CTX-M-15</i>	<i>NDM-1</i>	<i>SHV-187</i>	-
	HishK14	MDR, CR	<i>aac(3)-IIa;</i> <i>aac(6')-Ib-</i> <i>cr;</i> <i>aadA5;</i> <i>aph(3')-VI</i>	<i>qnrS1</i>	<i>mphA</i>	<i>catB1</i>	<i>sul1</i>	-	<i>dfrA17</i>	<i>OXA-1</i>	<i>CTX-M-15</i>	<i>NDM-1</i>	<i>SHV-187</i>	-
	K15	MDR, CR	<i>aac(3)-IIa;</i> <i>aac(6')-Ib-</i> <i>cr;</i> <i>aadA5</i>	<i>qnrS1</i>	<i>mphA</i>	<i>catB2</i>	<i>sul1</i>	-	<i>dfrA17</i>	-	<i>CTX-M-15</i>	<i>NDM-1</i>	<i>SHV-187</i>	-
	K2	MDR, CR	<i>aac(3)-IIa;</i> <i>aac(6')-Ib-</i> <i>cr;</i> <i>aadA5;</i> <i>aph(3')-VI</i>	<i>qnrS1</i>	<i>mphA</i>	<i>catB3</i>	<i>sul1</i>	-	<i>dfrA17</i>	<i>OXA-1</i>	<i>CTX-M-15</i>	<i>NDM-1</i>	<i>SHV-187</i>	-
	K6	MDR, CR	<i>aac(3)-IIa;</i> <i>aac(6')-Ib-</i>	<i>qnrS1</i>	<i>mphA</i>	<i>catB4</i>	<i>sul1</i>	-	<i>dfrA17</i>	<i>OXA-1</i>	<i>CTX-M-15</i>	<i>NDM-1</i>	<i>SHV-187</i>	-

			<i>cr;</i> <i>aadA5;</i> <i>aph(3')-VI</i>											
	LH_R164	MDR	-	<i>qnrS1</i>	-	-	-	<i>tet(D)</i>	-	-	CTX-M-15	-	SHV-187	-
ST218-3LV	LH_R154	S	-	-	-	-	-	-	-	-	-	-	SHV-93	-
ST219	LH_F64	MDR	<i>strA;strB</i>	<i>qnrB4;</i> <i>qnrS1</i>	<i>mphA</i>	-	<i>sul1;s</i> <i>ul2</i>	<i>tet(A)</i>	<i>dfrA14;d</i> <i>frA17</i>	DHA-1; TEM-1D	CTX-M-15	-	SHV-1	-
	LH_F66	MDR	<i>strA;strB</i>	<i>qnrB4;</i> <i>qnrS1</i>	<i>mphA</i>	-	<i>sul1;s</i> <i>ul2</i>	<i>tet(A)</i>	<i>dfrA14;d</i> <i>frA17</i>	DHA-1; TEM-1D	CTX-M-15	-	SHV-1	-
ST231	LH_R92	MDR, CR	<i>aac(6')-Ib;</i> <i>aadA2;</i> <i>rmtF</i>	<i>qnrS1</i>	<i>ermB;</i> <i>mphA</i>	-	<i>sul1</i>	-	<i>dfrA12</i>	TEM-1D	CTX-M-15	OXA- 232	SHV-1	
	LH_R219	MDR	-	<i>qnrS1</i>	-	<i>catA1</i>	-	-	-	TEM-1D	-	-	SHV-1	
ST237	LH_R208	S	-	-	-	-	-	-	-	-	-	-	SHV-11	-
	LH_F281	S	-	-	-	-	-	-	-	-	-	-	SHV-11	-
ST24-1LV	LH_F2	S	-	-	-	-	-	-	-	-	-	-	SHV-11	-
ST2459	LH_F25	β-lactam resistant only	-	-	-	-	-	-	-	-	CTX-M-15	-	SHV-1	-
ST2674	LH_S25	MDR, CR	<i>aac(3)-IIa;</i> <i>aac(6')-Ib-</i> <i>cr;</i> <i>aadA;</i> <i>aph(3')-VI</i>	<i>qnrS1</i>	-	<i>catB4</i>	<i>sul1</i>	-	<i>dfrA15</i>	-	CTX-M-15	NDM-1	SHV-11	-
ST2735	LH_F50_1	MDR	<i>strA;strB</i>	<i>qnrB4</i>	-	-	<i>sul1</i>	-	-	DHA-1	-	-	SHV-11	-
ST29-1LV	LH_R314	MDR	-	-	-	<i>catA1</i>	-	-	<i>dfrA15</i>	TEM-1D	CTX-M-15	-	-	-
ST292	LH_F82	MDR	<i>strA;strB</i>	-	-	<i>catII</i>	<i>sul2</i>	-	<i>dfrA14</i>	TEM-1D	CTX-M-15	-	SHV-11	-
ST307	LH_R146	MDR, CR	<i>aac(3)-IIa;</i> <i>aadA;</i>	<i>qnrS1</i>	-	<i>catB1</i>	<i>sul2</i>	-	<i>dfrA14</i>	OXA-1; TEM-1	CTX-M-15	NDM-1	SHV-28	

			<i>aph(3')-VI;</i> <i>strA;strB</i>											
	LH_R167	MDR, CR	<i>aac(3)-IIa;</i> <i>aph(3')-VI;</i> <i>strA;strB</i>	<i>qnrS1</i>	-	<i>catB2</i>	<i>sul1;sul2</i>	-	<i>dfrA14;dfrA15</i>	OXA-1; TEM-1	CTX-M-15	NDM-1	SHV-28	
	LH_R182	MDR, CR	<i>aac(6')-Ib-cr;</i> <i>aadA5;</i> <i>aph(3')-VI;</i> <i>strA;strB</i>	<i>qnrB1;</i> <i>qnrS1</i>	<i>mphA</i>	<i>catB3</i>	<i>sul1;sul2</i>	<i>tet(A)</i>	<i>dfrA14;dfrA17</i>	OXA-1	CTX-M-15	NDM-1	SHV-28	
	LH_R174	MDR, CR	<i>aac(3)-IIa;</i> <i>aadA;</i> <i>aph(3')-VI;</i> <i>strA;strB</i>	<i>qnrS1</i>	-	<i>catB4</i>	<i>sul2</i>	-	<i>dfrA14</i>	OXA-1; TEM-1	CTX-M-15	NDM-1	SHV-28	
	LH_R275	MDR	-	-	-	-	-	-	<i>dfrA14</i>	-	CTX-M-15	-	SHV-28	
	LH_F175	MDR	<i>aac(3)-IIa;</i> <i>aac(6')-Ib-cr;</i> <i>strA;strB</i>	-	-	<i>catB4</i>	<i>sul2</i>	-	<i>dfrA14</i>	OXA-1; TEM-1D	CTX-M-15	-	SHV-28	
ST3161	LH_F86	S	-	-	-	-	-	-	-	-	-	-	SHV-11	-
ST3430	LH_R195	MDR	<i>aadA2;</i> <i>aph3-Ia;</i> <i>strA;strB</i>	<i>qnrS1</i>	<i>mphA</i>	-	<i>sul1;sul2</i>	<i>tet(A)</i>	<i>dfrA12</i>	-	CTX-M-15	-	SHV-77	-
ST38	LH_F158	MDR, CR	<i>aadA;</i> <i>aadA2;</i> <i>aph(3')-VI;</i> <i>strA;strB</i>	<i>qnrS1</i>	<i>mphA</i>	<i>catB4</i>	<i>sul1;sul2</i>	-	<i>dfrA12;dfrA14</i>	OXA-1	CTX-M-15	NDM-1	SHV-11	
ST383	HishK8	MDR, CR	<i>aac(6')-Ib';</i> <i>aadA;</i> <i>aph3-Ia;</i> <i>armA;</i> <i>strA</i>	<i>qnrS1</i>	<i>mphA;</i> <i>mphE;</i> <i>msrE</i>	-	<i>sul1;sul2</i>	<i>tet(A)</i>	<i>dfrA5</i>	TEM-1	CTX-M-14; CTX-M-15	NDM-5; OXA-48	SHV-1	

	HishK9	MDR, CR	<i>aac(6')-Ib'</i> ; <i>aadA</i> ; <i>aph3-Ia</i> ; <i>strA</i>	<i>qnrS1</i>	<i>mphA</i> ; <i>mphE</i>	-	<i>sul1</i> ; <i>sul2</i>	<i>tet(A)</i>	<i>dfrA5</i>	TEM-1	CTX-M-14; CTX-M-15	NDM-5; OXA-48	SHV-1	
	LH_F15	MDR, CR	<i>aph3-Ia</i> ; <i>strA</i> ; <i>strB</i>	-	<i>mphA</i>	<i>catA1</i>	<i>sul2</i>	<i>tet(A)</i>	-	-	CTX-M-14	OXA-48	SHV-1	
	LH_F35	MDR, CR	<i>aac(6')-Ib'</i> ; <i>aadA</i> ; <i>aph(3')-VI</i>	<i>qnrS1</i>	-	-	-	-	-	TEM-1	CTX-M-15	NDM-5	SHV-1	
	LH_F190	MDR, CR	<i>aph(3')-VI</i> ; <i>aph3-Ia</i> ; <i>armA</i> ; <i>strA</i> ; <i>strB</i>	<i>qnrS1</i>	<i>mphA</i> ; <i>mphE</i> ; <i>msrE</i>	-	<i>sul1</i> ; <i>sul2</i>	<i>tet(A)</i>	<i>dfrA5</i>	-	CTX-M-14; CTX-M-15	NDM-5; OXA-48	SHV-1	-
ST39	LH_F146	S	-	-	-	-	-	-	-	-	-	-	SHV-1	-
ST437	K4	MDR, CR	<i>aac(3)-IIId</i> ; <i>aac(6')-Ib'</i> ; <i>aadA</i> ; <i>aph(3')-VI</i>	<i>qnrS1</i>	-	-	-	-	-	TEM-1	CTX-M-15	NDM-1	SHV-11	-
	LH_R323	MDR, CR	<i>rmtB</i>	-	<i>ermB</i> ; <i>mphA</i>	-	<i>sul1</i>	-	<i>dfrA30</i>	TEM-1D	CTX-M-15	NDM-5	SHV-11	
	LH_F101	MDR, CR	<i>rmtB</i>	-	<i>ermB</i> ; <i>mphA</i>	-	<i>sul1</i>	-	<i>dfrA30</i>	TEM-1D	CTX-M-15	NDM-5	SHV-11	
	LH_F102	MDR, CR	<i>rmtB</i>	-	<i>ermB</i> ; <i>mphA</i>	-	<i>sul1</i>	-	<i>dfrA30</i>	TEM-1D	CTX-M-15	NDM-5	SHV-11	
	LH_F143	MDR, CR	<i>rmtB</i>	-	<i>mphA</i>	-	<i>sul1</i>	-	<i>dfrA30</i>	TEM-1D	CTX-M-15	NDM-5	SHV-11	
	LH_F169	MDR, CR	<i>rmtB</i>	-	<i>ermB</i> ; <i>mphA</i>	-	<i>sul1</i>	-	<i>dfrA30</i>	TEM-1D	CTX-M-15	NDM-5	SHV-11	
	LH_F176	MDR, CR	<i>rmtB</i>	-	<i>ermB</i> ; <i>mphA</i>	-	<i>sul1</i>	-	<i>dfrA30</i>	TEM-1D	CTX-M-15	NDM-5	SHV-11	

ST45	LH_R313	MDR-CR	<i>strA;strB</i>	<i>qnrS1</i>	-	-	<i>sul2</i>	-	<i>dfrA14</i>	TEM-190	CTX-M-15	-	SHV-1	ompK36 variant. LSP insertion at position 184
ST469	LH_F126	MDR	<i>aph3-Ia; strA;strB</i>	<i>qnrS1</i>	<i>mphA</i>	<i>catII</i>	<i>sul1; sul2</i>	<i>tet(A)</i>	<i>dfrA12</i>	-	CTX-M-15	-	SHV-11	-
ST474	LH_R384	MDR	<i>strA;strB</i>	<i>qnrB1</i>	-	-	<i>sul2</i>	-	<i>dfrA14</i>	TEM-1D	CTX-M-15	-	SHV-11	-
ST501	LH_F174	MDR	-	<i>qnrS1</i>	-	-	-	-	<i>dfrA14</i>	-	CTX-M-15	-	SHV-11	-
ST514	LH_R120	β-lactam resistant only	-	-	-	-	-	-	-	-	CTX-M-15	-	SHV-63	-
ST530	HishK1	MDR, CR	<i>aac(3)-IIa; aac(6')-Ib-cr; aph(3')-VI</i>	<i>qnrS1</i>	-	<i>catB4</i>	<i>sul2</i>	<i>tet(A); tet(D)</i>	<i>dfrA30</i>	OXA-1	CTX-M-15	NDM-1	-	-
	HishK2	MDR, CR	<i>aac(3)-IIa; aac(6')-Ib-cr</i>	<i>qnrS1</i>	-	<i>catB4</i>	<i>sul2</i>	<i>tet(A); tet(D)</i>	<i>dfrA30</i>	OXA-1	CTX-M-15	NDM-1	-	-
ST664	LH_R100	MDR, CR	<i>aac(3)-IIa; aadA</i>	<i>qnrS1</i>	-	-	<i>sul1</i>	-	<i>dfrA15</i>	-	CTX-M-15	NDM-1	SHV-11	-
	LH_R107	MDR, CR	<i>aac(3)-IIa; aadA</i>	<i>qnrS1</i>	-	-	<i>sul1</i>	-	<i>dfrA15</i>	-	CTX-M-15	NDM-1	SHV-11	-
ST882	LH_R162	S	-	-	-	-	-	-	-	-	-	-	SHV-101	-
	LH_F192	S	-	-	-	-	-	-	-	-	-	-	SHV-101	-
ST901	LH_F159	MDR	<i>aac(6')-Ib-cr; aadA; strA;strB</i>	<i>qnrS1</i>	-	<i>catB4</i>	<i>sul1</i>	-	<i>dfrA15</i>	OXA-1; TEM-1D	CTX-M-15	-	SHV-1	-

ST: sequence type; AST: antimicrobial susceptibility test; AGly: aminoglycoside; R: resistance; Flq: Fluoroquinolone; MLS: Macrolide; Phe: Chloramphenicol; Sul: sulphonamide; Tet: tetracycline; Tmt: trimethoprim; Bla: β-lactamase; ESBL: extended-spectrum β lactamase; Carb: carbapenemase; OmpK: outer-membrane porin substitutions contributing to carbapenem resistance; MDR: multidrug resistance; CR: carbapenem resistant; S: Susceptible to all tested antibiotics.

OmpK35 and ompK36 sequences were analysed using Geneious Prime. OmpK35 Accession no KX528047.1 was used as a reference for OmpK35 sequence analysis. Reference laboratory strain ATCC43816 (Accession no CP009208.1), and amino acid sequences 6CRCP and 6CRD3 on Protein Data Bank (PDB) [10.2210/pdb6rcp/pdb](https://doi.org/10.2210/pdb6rcp/pdb) [15] were used as references for OmpK36 sequence analysis.