

Table S2. Genotypic Results

Cepheid ID	Sample type	Year	State	Organism by K-mer spectra	MLST	Resistance genes identified
17978	Blood	2022	GA	<i>Escherichia coli</i>	ST976	formA
17977	Blood	2022	GA	<i>Klebsiella pneumoniae</i>	ST1199	aac(6')-Ib,aadA2,aph(3')-Ia,blaKPC-3,blaSHV-187,catA1,dfrA12,fosA6,mph(A),OqxA,OqxB,qacE,sul1
17976	Urine	2022	GA	<i>Klebsiella pneumoniae</i>	ST16	aac(3)-IIa,aac(6')-Ib,aac(6')-Ib-cr,aadA13,ant(3'')-Ia,aph(3')-Ia,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaOXA-1,blaOXA-181,blaSHV-187,blaTEM-1B,catB3,dfrA14,floR,fosA5,mph(A),OqxA,OqxB,qacL,sul2,sul3
17975	Blood	2022	GA	<i>Klebsiella oxytoca</i>	ST2	blaOXY-2-8,fosA,OqxA,OqxB
17974	Blood	2022	GA	<i>Klebsiella pneumoniae</i>	ST13	blaCTX-M-15,blaKPC-3,blaSHV-187,blaTEM-1A,dfrA14,fosA6,OqxA,OqxB,qnrB1
17973	Urine	2022	GA	<i>Klebsiella pneumoniae</i>	ST258	aac(6')-Ib,aadA2,aph(3')-Ia,blaKPC-3,blaSHV-12,catA1,dfrA12,fosA6,mph(A),OqxA,OqxB,qacE,sul1
17972	Urine	2022	GA	<i>Escherichia coli</i>	ST33	aac(3)-IIa,aac(6')-Ib-cr,aadA16,aph(3')-Ia,aph(3'')-Ib,aph(6)-Id,ARR-3,blaNDM-1,catB3,dfrA27,floR,mph(A),qacE,sitABCD,sul1,sul2,tet(A)
17971	Urine	2022	GA	<i>Escherichia coli</i>	ST43	blaKPC-3,formA,sitABCD
17970	Blood	2022	GA	<i>Klebsiella michiganensis</i>	ST311	aadA6,ant(2'')-Ia,blaKPC-3,blaOXA-2,blaOXY-4-1,blaSHV-187,fosA,OqxA,OqxB,qacE,sul1
17899	Blood	2022	MO	<i>Klebsiella pneumoniae</i>	ST11	aac(3)-IIa,aac(6')-Ib-cr,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaOXA-1,blaSHV-187,blaTEM-1B,catA2,catB3,dfrA14,fosA6,OqxA,OqxB,qnrB1,sul2,tet(D)
17898	Blood	2022	MO	<i>Escherichia coli</i>	Inconclusive	aadA5,blaCTX-M-15,dfrA7,erm(B),formA,mph(A),qacE,qepA1,sitABCD,sul1
17897	Blood	2022	MO	<i>Escherichia coli</i>	ST3	blaDHA-1,blaTEM-1B,dfrA7,formA,mph(A),qacE,qnrB4,sitABCD,sul1

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17896	Urine	2022	MO	<i>Escherichia coli</i>	ST3	aadA13,ant(3'')-Ia,blaCTX-M-15,dfrA1,formA,qacE,sitABCD,sul1
17895	Urine	2022	MO	<i>Escherichia coli</i>	Not applicable	aac(3)-IIa,aadA5,blaCTX-M-15,blaTEM-1B,dfrA7,formA,qacE,sitABCD,sul1
17894	Urine	2022	MO	<i>Escherichia coli</i>	ST700	aadA13,ant(3'')-Ia,blaCTX-M-15,dfrA1,formA,sitABCD
17893	Urine	2022	MO	<i>Shigella flexneri</i>	ST2	aac(3)-IIa,aadA5,ant(3'')-Ia,aph(3'')-Ia,aph(3'')-Ib,aph(6)-Id,blaCTX-M-55,blaTEM-1B,catA1,floR,fosA3,qacL,sitABCD,sul2,sul3,tet(A),tet(B)
17891	Blood	2022	KS	<i>Escherichia coli</i>	ST2	aadA5,aph(3'')-Ib,aph(6)-Id,blaCTX-M-14,blaTEM-1B,dfrA7,formA,qacE,sul2,tet(A)
17870	Blood	2022	WI	<i>Escherichia coli</i>	ST8	aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaTEM-1B,catA1,dfrA7,mdf(A),qacE,sitABCD,sul1,sul2,tet(D)
17869	Blood	2022	WI	<i>Klebsiella aerogenes</i>	Inconclusive	blaACT-4,formA,fosA,mdf(A),OqxA,OqxB,sitABCD,tet(34)
17868	Blood	2022	WI	<i>Escherichia coli</i>	ST43	aadA5,blaCTX-M-15,dfrA17,mdf(A),mph(A),qacE,sitABCD,sul1
17867	Blood	2022	WI	<i>Raoultella ornithinolytica</i>	Not applicable	aac(3)-IIa,aac(6')-Ib-cr,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaOXA-1,blaPLA1a,blaTEM-1B,catB3,dfrA14,fosA,qnrB1,sul2,tet(A)
17866	Blood	2022	WI	<i>Escherichia coli</i>	ST53	blaCTX-M-15,mdf(A),sitABCD
17865	Blood	2022	WI	<i>Klebsiella pneumoniae</i>	ST45	aac(3)-IIa,aac(6')-Ib-cr,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaOXA-1,blaSHV-187,blaTEM-1B,catB3,dfrA14,fosA,OqxA,OqxB,qnrB1,sul2,tet(A)
17860	Blood	2022	WI	<i>Escherichia coli</i>	ST8	aadA5,aph(3'')-Ib,aph(6)-Id,blaCTX-M-27,dfrA17,mdf(A),mph(A),qacE,sul1,sul2,tet(A)

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17859	Blood	2022	WI	<i>Pseudomonas aeruginosa</i>	ST244	aph(3')-Iib,blaOXA-396,blaPDC-423,catB7,crpP,fosA
17858	Blood	2022	WI	<i>Escherichia coli</i>	ST2	aac(3)-IIa,aadA5,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,dfrA17,mdf(A),mph(A),sitABCD,sul2,tet(B)
17857	Blood	2022	WI	<i>Escherichia coli</i>	ST43	aac(3)-IIa,aac(6')-Ib-cr,ant(2'')-Ia,ant(3'')-Ia,blaCTX-M-15,blaOXA-1,catB3,cml,cmlA1,mdf(A),mph(A),qacE,sitABCD,sul1,tet(A)
17856	Blood	2022	WI	<i>Escherichia coli</i>	ST43	aac(3)-IIa,aac(6')-Ib-cr,aadA5,blaCTX-M-15,blaOXA-1,catB3,dfrA17,mdf(A),mph(A),qacE,sitABCD,sul1,tet(A)
17855	Blood	2022	WI	<i>Klebsiella pneumoniae</i>	ST1452	aac(3)-IId,aac(6')-Ib-cr,aadA16,aph(3')-Ia,aph(3'')-Ib,aph(6)-Id,ARR-3,blaCTX-M-3,blaSHV-187,blaTEM-1B,dfrA27,floR,fosA6,mph(A),OqxA,OqxB,qacE,qnrS1,sul1,sul2,tet(A)
17854	Blood	2022	WI	<i>Escherichia coli</i>	ST3	aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaTEM-1B,dfrA14,mdf(A),qnrS1,sitABCD,sul2,tet(A)
17853	Blood	2022	WI	<i>Klebsiella michiganensis</i>	ST85	blaKPC-2,blaOXY-1-7,blaTEM-1B
17852	Blood	2022	WI	<i>Klebsiella pneumoniae</i>	ST258	aac(6')-Ib,ant(3'')-Ia,aph(3'')-Ib,aph(6)-Id,blaKPC-3,blaOXA-9,blaSHV-187,catA1,dfrA14,fosA6,OqxA,OqxB,sul2
17851	Urine	2022	WI	<i>Klebsiella pneumoniae</i>	ST22	aac(3)-IIa,aac(6')-Ib-cr,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaOXA-1,blaSHV-187,blaTEM-1B,catB3,dfrA14,fosA6,OqxA,OqxB,qnrB1,sul2,tet(A)
17850	Urine	2022	WI	<i>Escherichia coli</i>	ST8	aac(3)-IIa,blaCTX-M-14,blaTEM-1B,mdf(A),tet(D)
17849	Urine	2022	WI	<i>Escherichia coli</i>	ST43	aac(3)-IId,aac(6')-Ib-cr,aadA16,aadA2,ARR-3,blaCTX-M-27,blaTEM-1B,dfrA12,dfrA27,mdf(A),qacE,sitABCD,sul1,tet(A)
17848	Urine	2022	WI	<i>Escherichia coli</i>	ST43	aac(3)-IIa,aac(6')-Ib-cr,blaCTX-M-15,blaOXA-1,catB3,mdf(A),sitABCD

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17847	Urine	2022	WI	<i>Escherichia coli</i>	Inconclusive	aac(3)-IId,ant(3'')-Ia,blaCMY-2,blaTEM-1B,mdf(A),sitABCD,tet(A)
17846	Urine	2022	WI	<i>Enterobacter sp.</i>	Inconclusive	ant(2'')-Ia,blaACT-16,blaSHV-187,fosA,qnrS1
17845	Urine	2022	WI	<i>Klebsiella pneumoniae</i>	ST2004-like	aac(3)-IIa,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaSHV-187,blaTEM-1B,dfrA14,fosA6,OqxA,OqxB,qnrB1,sul2,tet(A)
17844	Urine	2022	WI	<i>Enterobacter sp.</i>	Inconclusive	ant(2'')-Ia,blaACT-16,blaSHV-187,fosA,qnrS1
17843	Urine	2022	WI	<i>Providencia stuartii</i>	Not available	aac(2')-Ia,catA3,tet(B)
17842	Urine	2022	WI	<i>Klebsiella pneumoniae</i>	ST2546-like	aac(3)-IIa,aac(6')-Ib-cr,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaOXA-1,blaSHV-187,blaTEM-1B,catB3,dfrA14,fosA,OqxA,OqxB,qnrB1,sul2,tet(A)
17841	Urine	2022	WI	<i>Citrobacter freundii</i>	Inconclusive	aac(6')-Ib-cr,aph(3')-Ia,aph(3'')-Ib,aph(6)-Id,blaCMY-108,blaKPC-2,blaSHV-12,blaTEM-1B,dfrA19,mcr-9,qnrB2,qnrB6,sul1
17840	Urine	2022	WI	<i>Klebsiella pneumoniae</i>	ST348	aac(3)-IIa,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaSHV-187,blaTEM-1B,dfrA14,fosA,OqxA,OqxB,qnrB1,sul2
17839	Urine	2022	WI	<i>Escherichia coli</i>	ST2	aadA2,aph(3'')-Ib,aph(6)-Id,blaCTX-M-27,catA1,dfrA12,mdf(A),mph(A),qacE,sul1,sul2,tet(A)
17838	Urine	2022	WI	<i>Citrobacter freundii</i>	ST415	aac(3)-IId,aac(6')-Ib-cr,aadA2,aph(3'')-Ib,aph(6)-Id,blaCMY-48,blaKPC-2,blaSHV-12,blaTEM-1B,catA2,dfrA12,mcr-9,mph(A),qnrB2,sul1,sul2,tet(D)
17837	Urine	2022	WI	<i>Klebsiella pneumoniae</i>	ST258	aac(6')-Ib,ant(3'')-Ia,aph(3'')-Ib,aph(6)-Id,blaKPC-3,blaOXA-9,blaSHV-187,blaTEM-1A,catA1,dfrA14,fosA6,OqxA,OqxB,sul2
17177	Urine	2021	CA	<i>Acinetobacter baumannii</i>	ST2	aph(3')-Ia,aph(3'')-Ib,aph(6)-Id,armA,blaADC-25,blaOXA-23,blaOXA-66,blaTEM-1D,mph(E),msr(E),sul2,tet(B)

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17835	Blood	2022	IL	<i>Serratia nematodiphila</i>	Not available	aac(6')-Ic,blaSRT-1,blaTEM-1A,qnrB19,qnrB5
17834	Blood	2022	IL	<i>Escherichia coli</i>	ST43	aac(3)-IIa,aac(6')-Ib-cr,ant(2'')-Ia,ant(3'')-Ia,blaCTX-M-15,blaOXA-1,catB3,cmlA1,mdf(A),mph(A),qacE,sitABCD,sul1
17833	Blood	2022	IL	<i>Klebsiella pneumoniae</i>	ST37	aac(3)-IIa,aac(6')-Ib-cr,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaOXA-1,blaSHV-187,blaTEM-1B,catB3,dfrA14,fosA6,OqxA,OqxB,qnrB1,sul2,tet(A)
17832	Blood	2022	IL	<i>Klebsiella pneumoniae</i>	ST152	aac(6')-Ib-cr,aadA16,ARR-3,blaCTX-M-15,blaKPC-3,blaSHV-187,blaTEM-1A,dfrA27,fosA,OqxA,OqxB,qacE,qnrB6,sul1
17831	Blood	2022	IL	<i>Escherichia coli</i>	ST43	aac(3)-IId,aadA2,aadA5,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaTEM-1B,dfrA12,dfrA17,mdf(A),mph(A),qacE,qnrB19,sitABCD,sul1,sul2,tet(A)
17830	Blood	2022	IL	<i>Escherichia coli</i>	ST3	aph(3'')-Ib,aph(6)-Id,blaCTX-M-27,blaTEM-1B,dfrA7,mdf(A),qacE,sitABCD,sul1,sul2,tet(A)
17829	Blood	2022	IL	<i>Proteus mirabilis</i>	Not available	aadA2,ant(2'')-Ia,ant(3'')-Ia,aph(6)-Id,blaCTX-M-14,blaTEM-1B,cat,dfrA1,qacE,sul1,tet(J)
17828	Blood	2022	IL	<i>Escherichia coli</i>	ST43	aac(3)-IIa,aac(6')-Ib-cr,blaCTX-M-15,blaOXA-1,catB3,mdf(A),sitABCD,tet(A)
17827	Blood	2022	IL	<i>Escherichia coli</i>	ST43	blaCTX-M-15,mdf(A),sitABCD,tet(A)
17826	Blood	2022	IL	<i>Escherichia coli</i>	ST9	aadA5,blaCTX-M-27,blaTEM-1B (trunc),dfrA17,mdf(A),mph(A),qacE,sul1
17825	Blood	2022	IL	<i>Enterobacter ludwigii</i>	ST1306	blaACT-12,fosA2
17824	Blood	2022	IL	<i>Escherichia coli</i>	ST43	aadA5,blaCTX-M-15,blaTEM-1B,dfrA17,mdf(A),mph(A),qacE,sitABCD,sul1

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17823	Blood	2022	IL	<i>Escherichia coli</i>	Inconclusive	aac(3)-IId,aadA5,aph(3'')-Ib,aph(6)-Id,blaCTX-M-27,blaTEM-1B,dfrA17,mdf(A),mph(A),qacE,sitABCD,sul1,sul2,tet(A)
17822	Blood	2022	IL	<i>Escherichia coli</i>	ST43	aac(6')-Ib-cr,aadA5,blaCTX-M-15,blaOXA-1,catB3,dfrA17,mph(A),qacE,sitABCD,sul1,tet(A)
17821	Urine	2022	IL	<i>Escherichia coli</i>	ST43	aadA5,blaCMY-2,dfrA17,mdf(A),qacE,sitABCD,sul1
17820	Urine	2022	IL	<i>Escherichia coli</i>	ST53	aac(3)-IIa,aac(6')-Ib-cr,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaOXA-1,catB3,mdf(A),sitABCD,sul2,tet(B)
17819	Urine	2022	IL	<i>Escherichia coli</i>	ST43	aac(3)-IIa,aac(6')-Ib-cr,blaCTX-M-15,blaOXA-1,catB3,mdf(A),sitABCD,tet(A)
17818	Urine	2022	IL	<i>Escherichia coli</i>	ST43	aac(3)-IIa,aac(6')-Ib-cr,blaCTX-M-15,blaOXA-1,catB3,mdf(A),sitABCD
17817	Urine	2022	IL	<i>Escherichia coli</i>	ST2	aph(3')-Ia,aph(3'')-Ib,aph(6)-Id,blaCTX-M-55,catA1,mdf(A),sitABCD,sul2,tet(A),tet(B)
17816	Urine	2022	IL	<i>Enterobacter hormaechei</i>	Inconclusive	aph(3'')-Ib,aph(6)-Id,blaACT-16,blaTEM-1B,dfrA14,fosA,sul2,tet(D)
17815	Urine	2022	IL	<i>Citrobacter freundii</i>	Inconclusive	aac(6')-If,aadA2,blaCMY-150,dfrA12,mph(A),qacE,qnrB38,sul1,tet(A)
17814	Urine	2022	IL	<i>Escherichia coli</i>	ST901	aadA5,aph(3'')-Ib,aph(6)-Id,blaCTX-M-55,dfrA17,floR,mdf(A),sul2,tet(A)
17813	Urine	2022	IL	<i>Escherichia coli</i>	Inconclusive	aadA2,blaCTX-M-14,dfrA12,mdf(A),mph(A),qacE,sitABCD,sul1
17812	Urine	2022	IL	<i>Klebsiella pneumoniae</i>	ST37	aac(3)-IIa,aph(6)-Id,blaCTX-M-15,blaSHV-187,blaTEM-1B (truncated),catB3,fosA6,OqxA,OqxB,qnrB1,sul2,tet(A)

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17811	Urine	2022	IL	<i>Escherichia coli</i>	Inconclusive	aac(6')-Ib-cr,blaCTX-M-15,catB3,mdf(A),sitABCD
17810	Urine	2022	IL	<i>Escherichia coli</i>	ST43	aac(3)-IId,aadA2,aadA5,blaCTX-M-15,blaTEM-1B,dfrA12,dfrA17,mdf(A),mph(A),qacE,qnrB19,sitABCD,sul1
17809	Urine	2022	IL	<i>Escherichia coli</i>	ST43	aac(6')-Ib-cr,ant(2'')-Ia,ant(3'')-Ia,blaCTX-M-15,blaOXA-1,catB3,cmlA1,mdf(A),mph(A),qacE,qnrB19,sitABCD,sul1,tet(A)
17808	Urine	2022	IL	<i>Escherichia coli</i>	ST43	aac(3)-IIa,aac(6')-Ib-cr,blaCTX-M-15,blaOXA-1,catB3,mdf(A),sitABCD
17807	Urine	2022	IL	<i>Providencia stuartii</i>	Not available	aac(2')-Ia,blaTEM-106,catA3,tet(B)
17755	Blood	2021	TN	<i>Escherichia coli</i>	ST43	aac(3)-IId,aph(3'')-Ib,blaCTX-M-14,blaTEM-1B,mdf(A),mph(A),qacE,sitABCD,sul1,sul2
17754	Blood	2021	TN	<i>Pseudomonas aeruginosa</i>	ST1158	aph(3')-IIb,blaOXA-395,blaPDC-476,catB7,crpP,fosA
17753	Blood	2021	TN	<i>Citrobacter freundii</i>	ST98	aac(6')-Ib,ant(3'')-Ia,blaCMY-109,blaKPC-2,blaOXA-9,blaTEM-1A,qnrB38
17752	Blood	2021	TN	<i>Klebsiella pneumoniae</i>	ST111	aadA2,blaCTX-M-3,blaSHV-187,blaTEM-1B,dfrA21,fosA6,OqxA,OqxB,qacE,sul1,tet(D)
17751	Blood	2021	TN	<i>Escherichia coli</i>	ST43	aadA5,aph(3'')-Ib,aph(6)-Id,blaCTX-M-27,dfrA17,mdf(A),mph(A),qacE,sitABCD,sul1,sul2,tet(A)
17750	Blood	2021	TN	<i>Escherichia coli</i>	ST43	aac(3)-IIa,aac(6')-Ib-cr,aadA2,ant(3'')-Ia,blaCARB-2,blaCTX-M-15,blaOXA-1,catB3,cmlA1,dfrA12,mdf(A),qacE,qnrA1,sul1,sul3,tet(A)
17749	Blood	2021	TN	<i>Pseudomonas aeruginosa</i>	ST446	aph(3')-IIa,aph(3')-IIb,aph(6)-Ic,blaOXA-395,blaPDC-16,catB7,crpP,fosA

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17196	Blood	2021	CA	<i>Acinetobacter baumannii</i>	ST2	aph(3'')-Ib,aph(6)-Id,blaADC-25,blaOXA-237,blaOXA-66,sul2,tet(B)
17197	Blood	2021	CA	<i>Acinetobacter baumannii</i>	ST2	aph(3'')-Ib,aph(6)-Id,blaADC-25,blaOXA-237,blaOXA-66,sul2,tet(B)
17746	Blood	2021	TN	<i>Pseudomonas aeruginosa</i>	ST319	aph(3')-Iib,blaOXA-488,blaPDC-46,catB7,fosA
17745	Blood	2021	TN	<i>Pseudomonas aeruginosa</i>	Inconclusive	aph(3')-Iib,blaOXA-396,blaPDC-5,catB7,fosA
17744	Blood	2021	TN	<i>Pseudomonas jureticus</i>	Inconclusive	blaPDC-184 (68%)
17743	Blood	2021	TN	<i>Klebsiella pneumoniae</i>	ST405	aac(3)-IIa,aac(6')-Ib-cr,aac(6')-II,ant(3'')-Ia,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaOXA-1,blaSHV-76,blaTEM-1B,blaVIM-1,catB3,dfrA1,dfrA14,fosA,mph(A),OqxA,OqxB,qnrS1,sul2
17742	Blood	2021	TN	<i>Serratia marcescens</i>	Not available	aac(6')-Ic,aac(6')-II,ant(3'')-Ia,blaSRT-1,blaTEM-1B,blaVIM-1,dfrA1,mph(A)
17741	Blood	2021	TN	<i>Klebsiella pneumoniae</i>	ST405	aac(3)-IIa,aac(6')-Ib-cr,aac(6')-II,ant(3'')-Ia,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaOXA-1,blaSHV-187,blaSHV-76,blaTEM-1B,blaVIM-1,catB3,dfrA1,dfrA14,fosA,mph(A),OqxA,OqxB,qnrS1,sul2
17740	Urine	2021	TN	<i>Klebsiella pneumoniae</i>	ST307	aac(3)-IIa,aac(6')-Ib-cr,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaOXA-1,blaSHV-106/28,catB3,dfrA14,fosA6,OqxA,OqxB,qnrB1,sul2,tet(A)
17739	Urine	2021	TN	<i>Klebsiella aerogenes</i>	Not available	blaCMY-63 (75%),sitABCD,OqxA,OqxB,formA,fosA7,fosA,mdf(A),tet(34)
17738	Urine	2021	TN	<i>Enterobacter hormaechei</i>	ST461	aac(3)-IId,aadA2,blaACT-7,blaTEM-1B,catA2,dfrA12,fosA,mph(A),qacE,sul1,sul2,tet(D)
17737	Urine	2021	TN	<i>Proteus mirabilis</i>	Not available	ant(3'')-Ia,armA,blaCARB-2,blaCTX-M-15,blaFOX-5,blaTEM-1B,catA1,dfrA1,mph(E),msr(E),qacE,sul1,tet(J)

Table S2. Genotypic Results

Cepheid ID	Sample type	Year	State	Organism by K-mer spectra	MLST	Resistance genes identified
17736	Urine	2021	TN	<i>Klebsiella pneumoniae</i>	ST37	aac(6')-Ib-cr,aac(6')-Ib-cr,blaCTX-M-15,blaOXA-1,blaSHV-187,catB3,dfrA14,fosA6,OqxA,OqxB,qnrB1,tet(A)
17735	Urine	2021	TN	<i>Klebsiella pneumoniae</i>	ST219	aadA2,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaSHV-187,dfrA12,fosA,mph(A),OqxA,OqxB,qacE,qnrS1,sul1,sul2
17734	Urine	2021	TN	<i>Klebsiella pneumoniae</i>	ST2217	aac(6')-Ib-cr,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaOXA-1,blaSHV-187,blaTEM-1B,catB3,dfrA14,fosA6,OqxA,OqxB,qnrB1,sul2,tet(A)
17733	Urine	2021	TN	<i>Escherichia coli</i>	ST43	aadA5,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,dfrA17,mdf(A),mph(A),qacE,sitABCD,sul1,sul2,tet(A)
17732	Urine	2021	TN	<i>Klebsiella pneumoniae</i>	ST268	aadA2,aph(3')-Ia,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaSHV-187,catA2,dfrA12,fosA5,mph(A),OqxA,OqxB,qacE,qnrS1,sul1,sul2
17731	Urine	2021	TN	<i>Escherichia coli</i>	ST700	ant(3'')-Ia,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaTEM-1A,dfrA1,mdf(A),sitABCD,sul2,tet(A)
17730	Urine	2021	TN	<i>Escherichia coli</i>	ST43	blaCTX-M-15,blaTEM-1B,mdf(A),sitABCD
17729	Urine	2021	TN	<i>Klebsiella pneumoniae</i>	ST4452	aac(6')-Ib-cr,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaOXA-1,blaSHV-187,blaTEM-1B,catB3,dfrA14,fosA6,fosA7,OqxA,OqxB,qnrB1,sul2,tet(A)
17728	Urine	2021	TN	<i>Escherichia coli</i>	ST3	blaCTX-M-15,dfrA14,erm(B),mdf(A),mph(A),sitABCD,tet(B)
17727	Urine	2021	TN	<i>Escherichia coli</i>	ST43	aadA5,aph(3'')-Ib,aph(6)-Id,blaCTX-M-27,dfrA17,mdf(A),mph(A),qacE,sitABCD,sul1,sul2,tet(A)
17726	Urine	2021	TN	<i>Klebsiella pneumoniae</i>	ST405	aac(3)-IIa,aac(6')-Ib-cr,aac(6')-II,ant(2'')-Ia,ant(3'')-Ia,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaOXA-1,blaSHV-76,blaTEM-1B,blaVIM-1,catB3,dfrA1,dfrA14,fosA,mph(A),OqxA,OqxB,qnrS1,sul2
17722	Blood	2021	CA	<i>Escherichia coli</i>	ST43	aadA5,aph(3'')-Ib,aph(6)-Id,blaCTX-M-27,dfrA17,mdf(A),mph(A),qacE,sitABCD,sul1,sul2,tet(A)

Table S2. Genotypic Results

Cepheid ID	Sample type	Year	State	Organism by K-mer spectra	MLST	Resistance genes identified
17721	Blood	2021	CA	<i>Pseudomonas aeruginosa</i>	ST633	aph(3')-Iib,blaOXA-396,blaPDC-171,catB7,crpP,fosA
17720	Blood	2021	CA	<i>Pseudomonas aeruginosa</i>	ST633	aph(3')-Iib,blaOXA-396,blaPDC-171,catB7,crpP,fosA
17719	Blood	2021	CA	<i>Pseudomonas aeruginosa</i>	ST235	aadA6,aph(3')-Iib,blaOXA-488,blaPDC-35,catB7,fosA,qacE,sul1
17718	Blood	2021	CA	<i>Pseudomonas aeruginosa</i>	ST167	aac(6')-Ib,aac(6')-II,aadA6,ant(3'')-Ia,aph(3')-Iib,aph(3')-VIa,blaIMP-15,blaOXA-2,blaOXA-396,blaPDC-445,catA1,catB7,fosA,qacE,sul1
17717	Blood	2021	CA	<i>Pseudomonas aeruginosa</i>	ST244	aph(3')-Iib,blaOXA-396,blaOXA-494,blaPDC-423,catB7,fosA
17716	Urine	2021	CA	<i>Klebsiella pneumoniae</i>	ST4145-like	aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaSHV-187,blaTEM-1B,dfrA14,fosA5,OqxA,OqxB,qnrB1,sul2
17715	Urine	2021	CA	<i>Klebsiella pneumoniae</i>	ST2546-like	aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaSHV-187,blaTEM-1B,dfrA14,fosA,OqxA,OqxB,qnrB1,sul2,tet(A)
17714	Urine	2021	CA	<i>Enterobacter hormaechei</i>	ST45	aadA2,blaACT-15,mcr-10,qacE,sul1
17713	Urine	2021	CA	<i>Escherichia coli</i>	Inconclusive	aadA5,aph(3'')-Ib,aph(6)-Id,blaTEM-1B,dfrA17,mdf(A),mph(A),qacE,sitABCD,sul1,sul2,tet(A)
17712	Urine	2021	CA	<i>Klebsiella pneumoniae</i>	ST4145-like	aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaSHV-187,blaTEM-1B,dfrA14,fosA5,OqxA,OqxB,qnrB1,sul2
17316	Blood	2021	NJ	<i>Acinetobacter baumannii</i>	ST-235	aac(6')-Ib-cr,aph(3'')-Ib,aph(3')-VIa,aph(6)-Id,blaADC-25,blaOXA-71,blaSHV-12,sul2,tet(B)
17710	Urine	2021	CA	<i>Pseudomonas aeruginosa</i>	Inconclusive	aph(3')-Iib,blaOXA-395,blaPDC-115,catB7,fosA

Table S2. Genotypic Results

Cepheid ID	Sample type	Year	State	Organism by K-mer spectra	MLST	Resistance genes identified
17709	Urine	2021	CA	<i>Pseudomonas aeruginosa</i>	ST852	aph(3')-Iib,blaOXA-396,blaPDC-45,catB7,crpP,fosA
17708	Urine	2021	CA	<i>Klebsiella aerogenes</i>	ST93	blaCMY-74 (74%),formA,fosA,mdf(A),OqxA,OqxB,sitABCD,tet(34)
17707	Urine	2021	CA	<i>Klebsiella pneumoniae</i>	ST307	aac(3)-IIa,aac(6')-Ib-cr,aac(6')-Ib-cr,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaOXA-1,blaSHV-106,blaTEM-1B,catB3,dfrA14,fosA6,OqxA,OqxB,qnrB1,sul2,tet(A)
17706	Urine	2021	CA	<i>Klebsiella pneumoniae</i>	ST258	aac(6')-Ib,aadA1,aadA2,blaKPC-3,blaOXA-9,blaSHV-187,blaTEM-168 (trunc),catA1,dfrA12,dfrA14,fosA6,OqxA,OqxB,qacE,sul1
17638	Blood	2021	NM	<i>Escherichia coli</i>	ST43	aadA5,aph(3'')-Ib,aph(6)-Id,blaCTX-M-27,dfrA7,formA,mph(A),qacE,sitABCD,sul1,sul2,tet(A)
17637	Blood	2021	NM	<i>Escherichia coli</i>	ST43	aac(3)-IIa,aac(6')-Ib-cr,blaCTX-M-15,blaOXA-1,catB3,mdf(A),sitABCD,tet(A)
17636	Blood	2021	NM	<i>Pseudomonas aeruginosa</i>	ST111	aac(6')-Ib,aadA2,aph(3')-Iib,blaCARB-2,blaOXA-395,blaPDC-44,catB7,crpP,fosA,qacE,sul1
17324	Urine	2021	GA	<i>Acinetobacter baumannii</i>	ST2	aac(6')-Ilan,ant(2'')-Ia,aph(3')-Ia,aph(3'')-Ib,aph(6)-Id,blaADC-25,blaOXA-23,blaOXA-834,sul2,tet(B)
17634	Blood	2021	NM	<i>Pseudomonas aeruginosa</i>	ST308	aac(6')-30-aac(6')-Ib',aadA6,ant(3'')-Ia,aph(3')-Iib,blaOXA-2,blaOXA-488,blaPDC-19a,catB7,crpP,fosA,qacE,sul1
17628	Blood	2021	OH	<i>Escherichia coli</i>	ST132	aadA5,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaTEM-1B,dfrA17,mdf(A),mph(A),qacE,sitABCD,sul1,sul2,tet(A)
17627	Blood	2021	OH	<i>Enterobacter bugandensis</i>	Not available	blaACT-6,catA1,formA,fosA,mdf(A),OqxA,OqxB,sitABCD,tet(34) (
17626	Blood	2021	OH	<i>Escherichia coli</i>	ST43	aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaTEM-1B,dfrA14,mdf(A),sitABCD,sul2

Table S2. Genotypic Results

Cepheid ID	Sample type	Year	State	Organism by K-mer spectra	MLST	Resistance genes identified
17625	Blood	2021	OH	<i>Escherichia coli</i>	ST53	aac(3)-IIa,aac(6')-Ib-cr,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaOXA-1,catB3,dfrA17,mdf(A),sitABCD,sul2,tet(B)
17624	Blood	2021	OH	<i>Escherichia coli</i>	Inconclusive	blaCTX-M-14,mdf(A),sitABCD
17623	Blood	2021	OH	<i>Enterobacter hormaechei</i>	ST108	blaACT-7
17622	Blood	2021	OH	<i>Serratia marcescens</i>	Not possible	aac(6')-Ic,blaSRT-2,tet(41)
17621	Blood	2021	OH	<i>Serratia marcescens</i>	Not possible	aac(6')-Ic,blaSRT-2,tet(41)
17620	Blood	2021	OH	<i>Escherichia coli</i>	Inconclusive	aac(3)-IIa,aac(6')-Ib-cr,blaCTX-M-15,blaCTX-M-27,blaOXA-1,blaTEM-1B,catB3,mdf(A),mdf(A),sitABCD
17619	Blood	2021	OH	<i>Klebsiella pneumoniae</i>	ST4083	aadA2,aph(3')-Ia,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaSHV-187,dfrA12,fosA5,mph(A),OqxA,OqxB,qacE,qnrS1,sul1,sul2
17618	Blood	2021	OH	<i>Enterobacter hormaechei</i>	Inconclusive	blaACT-7
17617	Blood	2021	OH	<i>Escherichia coli</i>	Inconclusive	aadA5,aph(3'')-Ib,aph(6)-Id,blaCTX-M-27,dfrA17,mdf(A),mph(A),qacE,sitABCD,sul1,sul2,tet(A)
17616	Blood	2021	OH	<i>Enterobacter hormaechei</i> supsp. <i>xiangfangensis</i>	ST116	aac(6')-Ib-cr,aadA2,ant(3'')-Ia,aph(3'')-Ib,aph(6)-Id,blaACT-7,blaSHV-12,blaTEM-1B,catA2,dfrA19,fosA,mcr-9,qacE,sul1
17615	Blood	2021	OH	<i>Pseudomonas aeruginosa</i>	ST966	aac(3)-IIIb,aph(3')-Iib,blaOXA-395,blaPDC-471,catB7,crpP,fosA
17614	Blood	2021	OH	<i>Pseudomonas aeruginosa</i>	ST17	aph(3')-Iib,blaOXA-50,blaPDC-240,catB7,crpP,fosA

Table S2. Genotypic Results

Cepheid ID	Sample type	Year	State	Organism by K-mer spectra	MLST	Resistance genes identified
17613	Urine	2021	OH	<i>Escherichia coli</i>	Inconclusive	aph(6)-Id,blaTEM-1B,mdf(A),sitABCD,sul2
17612	Urine	2021	OH	<i>Escherichia coli</i>	ST43	aac(3)-IId,blaCTX-M-14,blaTEM-1B,mdf(A),sitABCD
17611	Urine	2021	OH	<i>Escherichia coli</i>	Inconclusive	blaCTX-M-32,blaTEM-1A,dfrA1,floR,mdf(A),mph(A),qacE,sul1,tet(A)
17610	Urine	2021	OH	<i>Escherichia coli</i>	ST53	aac(3)-IId,aadA5,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaTEM-1B,dfrA17,mdf(A),mph(A),qacE,sitABCD,sul1,sul2,tet(A)
17609	Urine	2021	OH	<i>Enterobacter hormaechei</i> supsp. <i>xiangfangensis</i>	Inconclusive	aac(3)-IIa,aac(6')-Ib-cr,aph(3'')-Ib,aph(6)-Id,blaACT-16,blaACT-7,blaCTX-M-15,blaOXA-1,blaTEM-1B,catB3,dfrA14,fosA,sul2,tet(A)
17608	Urine	2021	OH	<i>Citrobacter freundii</i>	ST169	aac(3)-IId,aadA2,blaCMY-65,blaTEM-1B,dfrA12,mph(A),qacE,qnrB38,sul1,sul2,tet(D)
17607	Urine	2021	OH	<i>Proteus mirabilis</i>	Not available	aac(6')-Ib-cr,aph(3')-Ia,aph(3'')-Ib,aph(6)-Id,blaCMY-2,sul2,tet(A),tet(J)
17606	Urine	2021	OH	<i>Citrobacter freundii</i>	ST97	blaCFE-1,qnrB27
17605	Urine	2021	OH	<i>Escherichia coli</i>	ST3	aadA5,aph(3'')-Ib,aph(6)-Id,blaTEM-1B,dfrA17,mdf(A),mph(A),qacE,sitABCD,sul1,sul2
17604	Urine	2021	OH	<i>Escherichia coli</i>	ST53	aac(3)-IIa,aac(6')-Ib-cr,blaCTX-M-15,blaOXA-1,catB3,mdf(A),sitABCD
17603	Urine	2021	OH	<i>Enterobacter hormaechei</i>	ST662	blaACT-7,fosA
17602	Urine	2021	OH	<i>Escherichia coli</i>	ST43	blaCTX-M-15,mdf(A),sitABCD

Table S2. Genotypic Results

Cepheid ID	Sample type	Year	State	Organism by K-mer spectra	MLST	Resistance genes identified
17601	Urine	2021	OH	<i>Escherichia coli</i>	Inconclusive	aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,mdf(A),mph(A),qnrS1,sitABCD,sul2
17600	Urine	2021	OH	<i>Enterobacter hormaechei</i>	ST45	aph(3'')-Ib,aph(6)-Id,blaACT-15,blaTEM-1B,dfrA14,sul2
17599	Urine	2021	OH	<i>Proteus penneri</i>	Not available	hugA
17598	Blood	2021	WA	<i>Pseudomonas aeruginosa</i>	ST1244	aph(3')-IIb,blaOXA-50,blaPDC-442,catB7,crpP,fosA
17597	Blood	2021	WA	<i>Enterobacter cloacae complex</i>	ST93	blaACT-7,fosA
17596	Blood	2021	WA	<i>Proteus mirabilis</i>	Not available	aac(3)-IId,aac(6')-Ib-cr,aadA5,ant(3'')-Ia,aph(3')-Ia,aph(3'')-Ib,aph(6)-Id,ARR-3,blaCTX-M-65,blaOXA-1,blaTEM-1B,cat,catA1,catB3,dfrA1,dfrA17,qacE,sul1,sul2,tet(J)
17595	Blood	2021	WA	<i>Klebsiella pneumoniae</i>	ST25	aac(3)-IIa,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaSHV-187,blaTEM-1B,dfrA14,fosA6,OqxA,OqxB,qnrB1,sul2
17590	Blood	2021	MO	<i>Escherichia coli</i>	ST43	aac(6')-Ib-cr,aac(6')-Ib-cr,blaCTX-M-15,blaOXA-1,blaTEM-1B,dfrA5,mdf(A),qacE,sitABCD,sul1
17589	Blood	2021	MO	<i>Escherichia coli</i>	Inconclusive	aac(3)-IId,blaCTX-M-55,mdf(A),qnrS1,sitABCD,tet(A)
17588	Blood	2021	MO	<i>Escherichia coli</i>	ST3	blaCTX-M-14,dfrA14,mdf(A),mph(A),sitABCD,tet(B)
17587	Blood	2021	MO	<i>Escherichia coli</i>	ST43	blaCTX-M-27,mdf(A),sitABCD
17586	Blood	2021	MO	<i>Escherichia coli</i>	ST3293	aph(3')-Ia,blaCTX-M-55,mdf(A),qnrB19,sitABCD

Table S2. Genotypic Results

Cepheid ID	Sample type	Year	State	Organism by K-mer spectra	MLST	Resistance genes identified
17585	Blood	2021	MO	<i>Escherichia coli</i>	ST535	aac(3)-IIa,aac(6')-Ib-cr,aph(3'')-Ib,aph(6)-Id,blaCMY-2,blaCTX-M-15,blaOXA-1,blaTEM-1B,catB3,dfrA14,mdf(A),sul2
17584	Blood	2021	MO	<i>Escherichia coli</i>	ST43	aac(6')-Ib-cr,aadA5,blaCTX-M-15,blaOXA-1,catB3,dfrA17,mdf(A),mph(A),qacE,sitABCD,sul1,tet(A)
17583	Blood	2021	MO	<i>Escherichia coli</i>	ST3	blaCTX-M-14,dfrA14,mdf(A),mph(A),sitABCD,tet(B)
17582	Urine	2021	MO	<i>Klebsiella pneumoniae</i>	ST37	aac(3)-IIa,aac(6')-Ib-cr,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaOXA-1,blaSHV-187,blaTEM-1B,catB3,dfrA14,fosA6,OqxA,OqxB,qnrB1,sul2,tet(A)
17581	Urine	2021	MO	<i>Escherichia coli</i>	ST736	aadA2,aadA5,aph(3'')-Ib,aph(6)-Id,blaCTX-M-65,blaTEM-1B,dfrA12,dfrA17,mdf(A),mph(A),qacE,sitABCD,sul1,sul2,sul3,tet(A)
17580	Urine	2021	MO	<i>Escherichia coli</i>	ST43	aac(6')-Ib-cr,blaCTX-M-15,blaOXA-1,blaTEM-1B,dfrA5,mdf(A),qacE,sitABCD,sul1
17579	Urine	2021	MO	<i>Klebsiella pneumoniae</i>	ST307	aac(3)-IIa,aac(6')-Ib-cr,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaOXA-1,blaSHV-28/106/171/205,blaTEM-1B,catB3,dfrA14,fosA6,OqxA,OqxB,sul2
17578	Urine	2021	MO	<i>Klebsiella pneumoniae</i>	ST107	aac(3)-IIa,aac(6')-Ib-cr,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaOXA-1,blaSHV-187,blaTEM-1B,catB3,dfrA14,fosA,OqxA,OqxB,qnrB1,sul2,tet(A)
17577	Urine	2021	MO	<i>Klebsiella pneumoniae</i>	ST107	aac(3)-IIa,aac(6')-Ib-cr,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaOXA-1,blaSHV-187,blaTEM-1B,catB3,dfrA14,fosA,OqxA,OqxB,qnrB1,sul2,tet(A)
17576	Urine	2021	MO	<i>Escherichia coli</i>	ST43	aac(6')-Ib-cr,aadA5,blaCTX-M-15,blaOXA-1,catB3,dfrA17,mdf(A),mph(A),qacE,sitABCD,sul1,tet(A)
17575	Urine	2021	MO	<i>Escherichia coli</i>	ST471	aadA5,dfrA17,mdf(A),mph(A),qacE,sitABCD,sul1,tet(A)
17574	Urine	2021	MO	<i>Escherichia coli</i>	ST43	aac(3)-IIa,aac(6')-Ib-cr,blaCTX-M-15,blaOXA-1,catB3,mdf(A),sitABCD,tet(A)

Table S2. Genotypic Results

Cepheid ID	Sample type	Year	State	Organism by K-mer spectra	MLST	Resistance genes identified
17573	Urine	2021	MO	<i>Escherichia coli</i>	Inconclusive	blaCTX-M-15,mdf(A),sitABCD
17572	Urine	2021	MO	<i>Klebsiella pneumoniae</i>	ST3293	aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaSHV-187,dfrA14,fosA6,OqxA,OqxB,qnrB1,sul2,tet(A)
17571	Blood	2021	WA	<i>Enterobacter hormaechei</i> supsp. <i>steigerwaltii</i>	ST190	blaACT-7,fosA
17570	Blood	2021	WA	<i>Pseudomonas aeruginosa</i>	ST179	aph(3')-IIb,blaOXA-396,blaPDC-442,catB7,crpP,fosA
17569	Blood	2021	WA	<i>Escherichia coli</i>	ST3	aph(3'')-Ib,aph(6)-Id,blaCMY-2,blaTEM-1B,dfrA14,mdf(A),qnrS1,sitABCD,sitABCD,sul2,tet(A)
17568	Blood	2021	WA	<i>Escherichia coli</i>	ST44	aac(3)-IIa,aac(6')-Ib-cr,aadA5,aph(3'')-Ib,aph(6)-Id,truncated blaCTX-M-15-like,blaOXA-1,catB3,dfrA17,mdf(A),mph(A),qacE,sitABCD,sul1,sul2,tet(A)
17567	Blood	2021	WA	<i>Escherichia coli</i>	ST53	aac(3)-IId,aadA5,blaCTX-M-55,blaTEM-1B,dfrA17,erm(B),mdf(A),mph(A),qacE,sitABCD,sul1
17566	Blood	2021	WA	<i>Escherichia coli</i>	ST53	aac(3)-IId,aadA5,blaCTX-M-55,blaTEM-1B,dfrA17,erm(B),mdf(A),mph(A),qacE,sitABCD,sul1
17565	Blood	2021	WA	<i>Serratia marcescens</i>		aac(6')-Ic,blaSRT-2
17564	Blood	2021	WA	<i>Escherichia coli</i>	ST8	aac(3)-IIa,aadA2,blaCTX-M-14,blaTEM-1B,dfrA12,dfrA5,erm(B),mdf(A),mph(A),qacE,sitABCD,sul1
17563	Blood	2021	WA	<i>Pseudomonas aeruginosa</i>	ST1202	aph(3')-IIb,blaOXA-494/396,blaPDC-445,catB7,crpP,fosA
17562	Blood	2021	WA	<i>Klebsiella michiganensis</i>	ST30	blaOXY-2-7,fosA7

Table S2. Genotypic Results

Cepheid ID	Sample type	Year	State	Organism by K-mer spectra	MLST	Resistance genes identified
17561	Blood	2021	WA	<i>Klebsiella pneumoniae</i>	ST307	aac(3)-IIa,aac(6')-Ib-cr,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaOXA-1,blaSHV-205/171/106/28,blaTEM-1B,catB3,dfrA14,fosA6,OqxA,OqxB,qnrB1,sul2,tet(A)
17560	Urine	2021	WA	<i>Escherichia coli</i>	ST87	ant(3'')-Ia,aph(3')-Ia,blaCTX-M-55,blaTEM-1B,lnu(F),mdf(A),qnrS1,sitABCD,sul2,sul3,tet(A)
17559	Urine	2021	WA	<i>Enterobacter cloacae</i> complex	ST78	aac(6')-Ib,ant(3'')-Ia,blaACT-5,blaCTX-M-3,blaLAP-2,blaOXA-10,blaTEM-1B,dfrA15,dfrB4,fosA,qacE,qnrS1,sul1,tet(C)
17558	Urine	2021	WA	<i>Escherichia coli</i>	ST721	blaCTX-M-15,mdf(A),sitABCD,sul2,tet(B)
17557	Urine	2021	WA	<i>Escherichia coli</i>	ST132	aph(3'')-Ib,aph(6)-Id,truncated blaCTX-M,blaTEM-1B,dfrA7,mdf(A),qacE,qnrS1,sul1,sul2,tet(A)
17556	Urine	2021	WA	<i>Escherichia coli</i>	ST43	blaCTX-M-15,blaTEM-1B,mdf(A),sitABCD,sitABCD
17555	Urine	2021	WA	<i>Escherichia coli</i>	ST43	blaCTX-M-14,blaTEM-1C,dfrA14,mdf(A),mph(A),sitABCD
17554	Urine	2021	WA	<i>Escherichia coli</i>	ST43	ant(3'')-Ia,blaCTX-M-15,blaTEM-1B,dfrA15,mdf(A),qacE,sitABCD,sul1,tet(A)
17553	Urine	2021	WA	<i>Klebsiella pneumoniae</i>	ST307	aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaSHV-205/171/106/28,blaTEM-1B,dfrA14,fosA6,OqxA,OqxB,qnrB1,sul2,tet(A)
17552	Urine	2021	WA	<i>Escherichia coli</i>	ST43	blaCTX-M-14,blaTEM-1B,mdf(A),sitABCD
17551	Urine	2021	WA	<i>Pseudomonas aeruginosa</i>	ST309	aph(3')-IIb,blaOXA-50,blaPDC-19a,catB7,crpP,fosA
17550	Urine	2021	WA	<i>Enterobacter hormaechei</i>	ST102	aac(3)-IVA,aac(6')-Ib-cr,aadA2,aph(4)-Ia,ARR-3,blaACT-5,blaOXA-1,catB3,dfrA12,flrR,fosA,qacE,qnrA1,sul1,sul2,tet(B)

Table S2. Genotypic Results

Cepheid ID	Sample type	Year	State	Organism by K-mer spectra	MLST	Resistance genes identified
17549	Urine	2021	WA	<i>Enterobacter hormaechei</i>	ST113	aac(6')-Ib-cr,ant(3'')-Ia,aph(3'')-Ib,aph(6)-Id,blaACT-15,blaCTX-M-15,blaOXA-1,blaTEM-1B,catA1,catB3,dfrA14,fosA,sul2,tet(A)
17548	Urine	2021	WA	<i>Klebsiella pneumoniae</i>	ST15	aadA2,blaCTX-M-15,blaSHV-28/106/171/205,blaTEM-1B,dfrA12,dfrA16,fosA6,mph(A),OqxA,OqxB,qacE,qnrB2,sul1
17547	Urine	2021	WA	<i>Klebsiella pneumoniae</i>	ST15	aadA2,blaCTX-M-15,blaSHV-205/106/187/28,blaTEM-1B,dfrA12,fosA6,mph(A),OqxA,OqxB,qacE,sul1
17546	Urine	2021	WA	<i>Escherichia coli</i>	ST43	aac(6')-Ib-cr,aadA2,blaCTX-M-15,blaOXA-1,catB3,dfrA12,mdf(A),mph(A),qacE,sitABCD,sul1
17545	Blood	2021	NM	<i>Escherichia coli</i>	ST879	blaCTX-M-14 or CTX-M-24,dfrA14,mdf(A),sitABCD,sul2
17544	Blood	2021	NM	<i>Escherichia coli</i>	ST535	blaCTX-M-15,mdf(A),qnrS1,sitABCD,tet(A)
17543	Blood	2021	NM	<i>Escherichia coli</i>	ST700	ant(3'')-Ia,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaTEM-1B,dfrA1,mdf(A),sul2
17329	Urine	2021	GA	<i>Acinetobacter baumannii</i>	ST2	aac(3)-Ia,aac(6')-Ia,aph(3'')-Ib,aph(6)-Id,blaADC-25,blaOXA-23, blaOXA-66,qacE,sul1,tet(B)
17541	Blood	2021	NM	<i>Klebsiella pneumoniae</i>	ST5193-like	blaSHV-187,fosA,fosA5,OqxA,OqxB
17540	Blood	2021	NM	<i>Klebsiella pneumoniae</i>	ST17	aph(3')-Ia,aph(3'')-Ib,aph(6)-Id,blaSHV-187,catA2,fosA,mcr-9,OqxA,OqxB
17539	Blood	2021	NM	<i>Escherichia coli</i>	ST43	aac(3)-IIa,aac(6')-Ib-cr,aadA5,blaCTX-M-15,blaOXA-1,catB3,dfrA17,mdf(A),mph(A),qacE,sitABCD,sul1,tet(A)
17538	Blood	2021	NM	<i>Escherichia coli</i>	ST2	aadA1,aadA5,aph(3')-Ia,aph(3'')-Ib,aph(6)-Id,blaCMY-2,blaCTX-M-15,blaOXA-1,catB3,dfrA17,floR,mdf(A),mph(A),qacE,rmtE,sitABCD,sul1,sul2,tet(A),tet(B)

Table S2. Genotypic Results

Cepheid ID	Sample type	Year	State	Organism by K-mer spectra	MLST	Resistance genes identified
17537	Blood	2021	NM	<i>Escherichia coli</i>	ST477	aadA2,aadA5,ant(3'')-Ia,aph(3'')-Ib,aph(6)-Id,blaCTX-M-55,cmlA1,dfrA17,mdf(A),qacE,sitABCD,sul1,sul2,sul3,tet(A)
17536	Blood	2021	NM	<i>Enterobacter hormaechei</i> supsp. <i>xiangfangensis</i>	ST451	blaACT-84,fosA
17535	Urine	2021	NM	<i>Klebsiella pneumoniae</i>	ST866	aac(6')-Ib-cr,aac(6')-Ib-cr,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaOXA-1,blaSHV-187,blaTEM-1B,catB3,dfrA14,fosA6,OqxA,OqxB,qnrB1,sul2,tet(A)
17534	Urine	2021	NM	<i>Enterobacter hormaechei</i>	ST45	aph(3'')-Ib,aph(6)-Id,blaACT-15,blaTEM-1B,dfrA14,sul2
17533	Urine	2021	NM	<i>Pseudomonas aeruginosa</i>	ST2615	aph(3')-IIb,blaOXA-50,blaPDC-368,catB7,fosA
17531	Urine	2021	NM	<i>Klebsiella pneumoniae</i>	ST3964	aac(6')-Ib-cr,aac(6')-Ib-cr,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaLEN-13,blaOXA-1,blaTEM-1B,dfrA14,fosA,fosA7,OqxA,OqxB,sul2
17530	Urine	2021	NM	<i>Pseudomonas aeruginosa</i>	ST235	aadA6,aph(3')-IIa,aph(3')-IIb,aph(6)-Ic,blaOXA-488,blaPDC-35,catB7,fosA,qacE,sul1
17529	Urine	2021	NM	<i>Enterobacter cloacae</i> complex	ST108	blaACT-7
17528	Urine	2021	NM	<i>Hafnia alvei</i>	Not available	blaACC-1a
17527	Urine	2021	NM	<i>Klebsiella michiganensis</i>	ST11	aac(3)-IIa,aac(6')-Ib-cr,aph(3')-Ia,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaOXA-1,blaOXY-1-1,blaTEM-1B,catB3,dfrA14,qnrB1,sul2,tet(A)
17526	Urine	2021	NM	<i>Enterobacter cloacae</i> complex	ST108	blaACT-7
17525	Urine	2021	NM	<i>Enterobacter hormaechei</i>	ST1377	aac(6')-Ib-cr,aadA16,ant(3'')-Ia,ARR-3,blaACT-7,blaNDM-1,blaOXA-10,dfrA27,qacE,qnrS1,sul1

Table S2. Genotypic Results

Cepheid ID	Sample type	Year	State	Organism by K-mer spectra	MLST	Resistance genes identified
17524	Urine	2021	NM	<i>Pseudomonas aeruginosa</i>	ST2211	aph(3')-Iib,aph(3')-Iic,aph(6)-Ic,blaOXA-395,blaPDC-342,catB7,crpP,crpP,formA,formA,OqxA
17523	Urine	2021	NM	<i>Raoultella ornithinolytica</i>	Not available	blaOXA-181, blaORN-1,fosA,qnrS1
17522	Urine	2021	NM	<i>Escherichia coli</i>	ST43	aac(3)-IIa,blaCTX-M-15,blaOXA-1,catB3,mdf(A),sitABCD
17521	Urine	2021	NM	<i>Klebsiella pneumoniae</i>	ST307	aac(3)-IIa,aac(6')-Ib-cr,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaOXA-1,blaSHV-205,blaTEM-1B,catB3,dfrA14,fosA6,OqxA,OqxB,qnrB1,sul2,tet(A)
17520	Urine	2021	NM	<i>Escherichia coli</i>	ST43	aac(3)-IIa,aac(6')-Ib-cr,aac(6')-Ib-cr,aadA5,blaCTX-M-15,blaOXA-1,catB3,dfrA17,mdf(A),qacE,sitABCD,sul1,tet(A)
17464	Blood	2021	NY	<i>Escherichia coli</i>	ST43	aac(6')-Ib-cr,aadA5,blaCTX-M-15,blaOXA-1,catB3,dfrA17,mdf(A),mph(A),qacE,sitABCD,sul1,tet(A)
17463	Blood	2021	NY	<i>Escherichia coli</i>	ST43	aadA5,aph(3'')-Ib,aph(6)-Id,blaCTX-M-27,dfrA17,mdf(A),mph(A),qacE,sitABCD,sul1,sul2,tet(A)
17462	Blood	2021	NY	<i>Escherichia coli</i>	ST43	aac(6')-Ib-cr,aadA5,blaCTX-M-15,blaOXA-1,catB3,dfrA17,mdf(A),mph(A),qacE,sitABCD,sul1,tet(A)
17461	Blood	2021	NY	<i>Enterobacter ludwigii</i>	Inconclusive	blaACT-12,fosA2,fosA7
17460	Blood	2021	NY	<i>Serratia fonticola</i>	Not available	blaFONA-6
17459	Blood	2021	NY	<i>Escherichia coli</i>	ST43	aadA5,aph(3'')-Ib,aph(6)-Id,blaCTX-M-27,dfrA17,mdf(A),mph(A),qacE,sitABCD,sul1,sul2,tet(A)
17458	Blood	2021	NY	<i>Escherichia coli</i>	ST3	aadA5,ant(3'')-Ia,blaCTX-M-15,dfrA1,mdf(A),qacE,qnrS1,sitABCD,sul1,sul2,tet(B)

Table S2. Genotypic Results

Cepheid ID	Sample type	Year	State	Organism by K-mer spectra	MLST	Resistance genes identified
17457	Blood	2021	NY	<i>Escherichia coli</i>	ST24	aph(3'')-Ib,aph(6)-Id,blaCMY-2,blaTEM-1B,dfrA5,mdf(A),sitABCD,sul2,tet(A)
17456	Blood	2021	NY	<i>Citrobacter freundii</i>	Not available	blaCMY-98,qnrB69
17455	Blood	2021	NY	<i>Escherichia coli</i>	ST8	aph(3'')-Ib,aph(6)-Id,blaCTX-M-14,mdf(A),sul2
17454	Blood	2021	NY	<i>Escherichia coli</i>	ST43	aac(3)-IIa,aac(6')-Ib-cr,blaCTX-M-15,blaOXA-1,catB3,mdf(A),sitABCD
17453	Blood	2021	NY	<i>Klebsiella aerogenes</i>	ST4	blaACT-14, formA, fosA, mdf(A),OqxA,OqxB,tet(34), sitABCD (all <90%)
17452	Blood	2021	NY	<i>Escherichia coli</i>	ST53	aac(3)-IId,aadA5,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaTEM-1B,dfrA17,mdf(A),mph(A),qacE,sitABCD,sul1,sul2,tet(A)
17451	Blood	2021	NY	<i>Escherichia coli</i>	ST479	aac(3)-IId,blaCTX-M-1,dfrA7,mdf(A),mph(A),qacE,sul1,tet(A)
17450	Blood	2021	NY	<i>Klebsiella pneumoniae</i>	ST307	aac(3)-IIa,aac(6')-Ib-cr,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaOXA-1,blaSHV-28/106,blaTEM-1B,catB3,dfrA14,fosA6,OqxA,OqxB,qnrB1,sul2,tet(A)
17449	Urine	2021	NY	<i>Klebsiella pneumoniae</i>	ST307	aac(3)-IIa,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaSHV-28/106,blaTEM-1B,dfrA14,fosA6,OqxA,OqxB,qnrB1,sul2
17448	Urine	2021	NY	<i>Klebsiella michiganensis</i>	ST27	aac(3)-IIa,aac(6')-Ib-cr,aadA5,aph(3')-Ia,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaOXA-1,blaOXY-1-1,blaTEM-1B,catA1,catB3,dfrA14,dfrA17,mph(A),qacE,qnrB1,sul1,sul2,tet(A),tet(B)
17447	Urine	2021	NY	<i>Escherichia coli</i>	Inconclusive	aac(3)-IId,aadA5,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaTEM-1B,dfrA17,mdf(A),mph(A),qacE,sitABCD,sul1,sul2,tet(A)
17446	Urine	2021	NY	<i>Escherichia coli</i>	Inconclusive	aac(3)-IIa,aac(6')-Ib-cr,aadA5,blaCTX-M-15,blaOXA-1,catB3,dfrA17,mdf(A),mph(A),qacE,sitABCD,sul1,tet(A)

Table S2. Genotypic Results

Cepheid ID	Sample type	Year	State	Organism by K-mer spectra	MLST	Resistance genes identified
17445	Urine	2021	NY	<i>Escherichia coli</i>	ST53	aadA5,aph(3'')-Ib,aph(6)-Id,blaCTX-M-27,dfrA17,mdf(A),mph(A),qacE,sitABCD,sul1,sul2,tet(A)
17444	Urine	2021	NY	<i>Escherichia coli</i>	ST1	blaCTX-M-14,mdf(A),sitABCD
17443	Urine	2021	NY	<i>Klebsiella pneumoniae</i>	ST307	aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaKPC-3,blaSHV-28/106,blaTEM-1B,dfrA14,fosA6,OqxA,OqxB,sul2
17442	Urine	2021	NY	<i>Klebsiella pneumoniae</i>	ST348	ant(2'')-Ia,blaKPC-4,blaOXA-2,blaSHV-187,fosA,OqxA,OqxB,qnrB2,sul1
17330	Urine	2021	GA	<i>Acinetobacter baumannii</i>	ST2	aph(3'')-Ib,aph(6)-Id,blaADC-25,blaOXA-80,tet(B)
17440	Urine	2021	NY	<i>Enterobacter hormaechei</i>	ST133	blaACT-7,fosA,mcr-9
17439	Urine	2021	NY	<i>Klebsiella pneumoniae</i>	ST258	aac(6')-Ib,aadA5,ant(3'')-Ia,blaKPC-3,blaOXA-9,blaSHV-187,blaTEM-1A,dfrA17,dfrA5,fosA6,OqxA,OqxB,qacE,sul1,tet(D)
17339	Blood	2021	GA	<i>Acinetobacter baumannii</i>	ST2	aac(3)-Ia,aac(6')-Ia,aph(3'')-Ib,aph(6)-Id,blaADC-25,blaOXA-23,blaOXA-66,qacE,sul1,tet(B)
17437	Urine	2021	NY	<i>Enterobacter hormaechei</i>	ST636	blaACT-7,fosA
17435	Urine	2021	NY	<i>Acinetobacter baumannii</i>	ST499	ant(2'')-Ia,blaADC-25,blaOXA-23,blaOXA-95,catB3,qacE,sul1
17436	Urine	2021	NY	<i>Acinetobacter baumannii</i>	ST2	aph(3')-VIa,blaADC-25,blaOXA-23,blaOXA-82,mph(E),msr(E)
17430	Blood	2021	NJ	<i>Escherichia coli</i>	ST43	blaDHA-1,dfrA17,mdf(A),mph(A),qacE,qnrB4,sitABCD,sitABCD,sul1

Table S2. Genotypic Results

Cepheid ID	Sample type	Year	State	Organism by K-mer spectra	MLST	Resistance genes identified
17429	Blood	2021	NJ	<i>Escherichia coli</i>	ST3	aadA5,aph(3'')-Ib,aph(6)-Id,blaCMY-2,blaTEM-1B,dfrA17,mdf(A),mph(A),qacE,sitABCD,sul1,sul2,tet(B)
17428	Blood	2021	NJ	<i>Escherichia coli</i>	ST43	blaCTX-M-27,mdf(A),sitABCD
17427	Blood	2021	NJ	<i>Klebsiella pneumoniae</i>	ST307	aac(3)-IIa,aac(6')-Ib-cr,ant(3'')-Ia,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaOXA-1,blaSCO-1,blaSHV-28/106,blaTEM-1B,catA1,catB3,dfrA8,fosA6,OqxA,OqxB,qacE,qnrB1,sul1,sul2,tet(A),tet(B),tet(C)
17426	Blood	2021	NJ	<i>Escherichia coli</i>	ST9	aac(3)-IId,aadA2,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaTEM-1B,dfrA12,mdf(A),mph(A),qacE,sul1,sul2,tet(A)
17425	Blood	2021	NJ	<i>Escherichia coli</i>	ST43	blaCTX-M-27,mdf(A),sitABCD
17424	Blood	2021	NJ	<i>Pseudomonas aeruginosa</i>	ST274	aph(3')-Iib,blaOXA-486,blaPDC-24,catB7,fosA
17346	Blood	2021	KS	<i>Escherichia coli</i>	ST53	aac(3)-IIa,aac(6')-Ib-cr,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaOXA-1,blaTEM-1B,catB3,dfrA14,erm(B),mdf(A),qnrB1,sitABCD,sul2,tet(A)
17345	Urine	2021	KS	<i>Klebsiella pneumoniae</i>	ST25	aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaSHV-187,blaTEM-1B,dfrA14,fosA6,OqxA,OqxB,,qnrB1,sul2
17344	Urine	2021	KS	<i>Klebsiella pneumoniae</i>	ST307	aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaSHV-106/28 (blaSHV-205 by BLAST),blaTEM-1B,dfrA14,fosA6,OqxA,OqxB,qnrB1,sul2,tet(A)
17343	Urine	2021	KS	<i>Escherichia coli</i>	ST3	blaCTX-M-15,mdf(A),qnrS1,sitABCD
17342	Urine	2021	KS	<i>Escherichia coli</i>	Inconclusive	aadA2,ant(3'')-Ia,aph(3')-Ia,aph(3'')-Ib,blaCTX-M-27,blaTEM-1C,cmlA1,dfrA12,erm(B),mdf(A),mph(A),sitABCD,sul2,sul3,tet(A)
17340	Blood	2021	GA	<i>Klebsiella pneumoniae</i>	ST16	aac(3)-IIa,aac(6')-Ib-cr,aadA2,ant(3'')-Ia,aph(3')-Ia,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaNDM-5,blaOXA-1,blaOXA-181,blaSHV-187,blaTEM-1B,dfrA12,dfrA14,floR,fosA5,mph(A),OqxA,OqxB,qacE,qnrS1,rmtB,sul1,sul2,sul3

Table S2. Genotypic Results

Cepheid ID	Sample type	Year	State	Organism by K-mer spectra	MLST	Resistance genes identified
17438	Urine	2021	NY	<i>Acinetobacter baumannii</i>	ST2	aac(6')-Ib,aac(6')-Ib-cr,aadA1,aph(3')-Ia,aph(3'')-Ib,aph(6)-Id,blaADC-25,blaOXA-407,blaTEM-1D,catB8,mph(E),qacE,sul1,sul2,tet(B)
17338	Urine	2021	GA	<i>Klebsiella oxytoca</i>	ST180	aac(6')-Ib,aadA13,ant(3'')-Ia,aph(3')-Ia,blaKPC-3,blaOXA-9,blaOXY-1-4,blaTEM-1A,fosA,OqxA,OqxB,qnrB19
17337	Urine	2022	GA	<i>Klebsiella pneumoniae</i>	ST219	aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaKPC-3,blaSHV-187,fosA,OqxA,OqxB,qnrS1,sul2,tet(A)
17336	Blood	2022	GA	<i>Klebsiella pneumoniae</i>	ST13	blaKPC-3,blaSHV-187,blaTEM-1A,dfrA14,fosA6,OqxA,OqxB,qnrB1
17335	Urine	2021	GA	<i>Klebsiella aerogenes</i>	Inconclusive	blaKPC-3
17334	Urine	2022	GA	<i>Klebsiella pneumoniae</i>	ST219	aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaKPC-3,blaSHV-187,fosA,OqxA,OqxB,qnrS1,sul2,tet(A)
17333	Urine	2021	GA	<i>Klebsiella aerogenes</i>	Inconclusive	aac(6')-Ib,ant(3'')-Ia,blaKPC-3,blaOXA-9,blaTEM-1A,qnrB19
17332	Urine	2021	GA	<i>Klebsiella pneumoniae</i>	ST16	aac(3)-IIa,aac(6')-Ib-cr,ant(3'')-Ia,aph(3')-Ia,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaOXA-1,blaSHV-187,blaTEM-176,catB3,dfrA14,floR,fosA5,OqxA,OqxB,sul2,sul3
17331	Urine	2021	GA	<i>Klebsiella pneumoniae</i>	ST16	aac(3)-IIa,aac(6')-Ib-cr,aadA2,ant(3'')-Ia,aph(3')-Ia,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaNDM-5,blaOXA-1,blaOXA-181,blaSHV-187,
17441	Urine	2021	NY	<i>Acinetobacter baumannii</i>	ST2	aph(3')-VIa,blaADC-25,blaOXA-23,blaOXA-82,mph(E),msr(E)
17542	Blood	2021	NM	<i>Acinetobacter beijerinckii</i>	Inconclusive	qacE
17328	Urine	2021	GA	<i>Enterobacter hormaechei</i>	ST-427	blaACT-15,fosA

Table S2. Genotypic Results

Cepheid ID	Sample type	Year	State	Organism by K-mer spectra	MLST	Resistance genes identified
17327	Urine	2021	GA	<i>Klebsiella pneumoniae</i>	ST469	aac(6')-Ib,ant(3'')-Ia,blaKPC-3,blaOXA-9,blaSHV-187,blaTEM-1A,fosA,fosA6,OqxA,OqxB,qnrB19
17326	Urine	2021	GA	<i>Klebsiella oxytoca</i>	ST-50	aac(3)-IIa,aac(6')-Ib-cr,aac(6')-Ib-cr,aph(3')-Ia,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaOXA-1,blaOXY-1-2,blaTEM-1B,catB3,dfrA14,qnrB1,sul2,tet(A)
17325	Urine	2021	GA	<i>Klebsiella pneumoniae</i>	ST379	aac(6')-Ib,aadA1,aadA2,blaKPC-3,blaOXA-9,blaSHV-187,blaTEM-168/1A/54,catA1,dfrA12,fosA6,OqxA,OqxB,qacE,sul1
17635	Blood	2021	NM	<i>Acinetobacter baumannii</i>	ST203	blaADC-25,blaOXA-78
17323	Blood	2021	NJ	<i>Klebsiella pneumoniae</i>	ST231	aac(6')-Ib,aadA2,ARR-3,blaCTX-M-15,blaSHV-187,blaTEM-1B,catA1,dfrA12,erm(B),fosA,mph(A),OqxA,OqxB,qacE,rmtF,sitABCD,sul1
17322	Blood	2021	NJ	<i>Klebsiella pneumoniae</i>	ST1683-like	blaKPC-3,blaLEN16,blaSHV-187,blaTEM-1B,dfrA14,fosA,OqxA,OqxB,qnrS1
17321	Blood	2021	NJ	<i>Klebsiella aerogenes</i>	ST92	aac(6')-Ib-Hangzhou,blaCTX-M-15,blaTEM-1B,fosA,rmtF
17320	Blood	2021	NJ	<i>Klebsiella pneumoniae</i>	ST231	aac(6')-Ib,aadA2,ARR-3,blaCTX-M-15,blaSHV-187,blaTEM-1B,catA1,dfrA12,erm(B),fosA,mph(A),OqxA,OqxB,qacE,rmtF,sitABCD,sul1
17319	Blood	2021	NJ	<i>Escherichia coli</i>	ST43	aac(3)-IIa,aac(6')-Ib-cr,aadA5,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaOXA-1,blaTEM-1B,catB3,dfrA17,mdf(A),mph(A),qacE,sitABCD,sul1,tet(A)
17318	Blood	2021	NJ	<i>Escherichia coli</i>	ST43	aadA5,blaCTX-M-15,dfrA17,mph(A),qacE,sul1
17317	Blood	2021	NJ	<i>Enterobacter cloacae</i>	ST50	blaACT-15,fosA
17711	Urine	2021	CA	<i>Acinetobacter baumannii</i>	ST258	aph(3'')-Ib,aph(3')-VIa,aph(6)-Id,armA,blaADC-25,blaOXA-23,blaOXA-66,mph(E),msr(E),qacE,sul1,tet(B)

Table S2. Genotypic Results

Cepheid ID	Sample type	Year	State	Organism by K-mer spectra	MLST	Resistance genes identified
17315	Urine	2021	NJ	<i>Pseudomonas aeruginosa</i>	ST235	aadA6,aph(3'')-Ib,aph(3')-IIb,aph(6)-Id,blaOXA-488,blaPDC-35,catB7,crpP,fosA,qacE,sul1
17314	Urine	2021	NJ	<i>Klebsiella pneumoniae</i>	ST258	aac(6')-Ib,aadA6,aph(3'')-Ib,aph(3')-IIb,aph(6)-Id,blaKPC-3,blaOXA-9,blaTEM-1A,catA1,catB7,crpP,fosA,fosA6,OqxA,OqxB,qacE,sul1
17313	Urine	2021	NJ	<i>Klebsiella pneumoniae</i>	ST258	aac(6')-Ib,ant(3'')-Ia,aph(3'')-Ib,aph(6)-Id,blaKPC-3,blaOXA-9,blaSHV-12,blaTEM-1A,dfrA14,fosA6,mph(A),OqxA,OqxB,sul2
17312	Urine	2021	NJ	<i>Escherichia coli</i>	ST53	aadA5,aph(3'')-Ib,aph(6)-Id,blaCTX-M-27,dfrA17,erm(B),mph(A),qacE,sul1,sul2,tet(A)
17311	Urine	2021	NJ	<i>Klebsiella pneumoniae</i>	ST412	blaKPC-2,blaSHV-187,fosA6,OqxA,OqxB,qnrS1
17310	Urine	2021	NJ	<i>Enterobacter cloacae</i>	Inconclusive	blaMIR-5,fosA
17309	Urine	2021	NJ	<i>Escherichia coli</i>	Inconclusive	aph(3'')-Ib,aph(6)-Id,blaCTX-M-27,blaTEM-1B,mdf(A),sitABCD,sul2,tet(A)
17308	Urine	2021	NJ	<i>Enterobacter cloacae</i>	ST108	blaACT-7
17307	Urine	2021	NJ	<i>Enterobacter hormaechei</i> supsp. <i>xiangfangensis</i>	ST171	aac(6')-Ib,ant(3'')-Ia,aph(3'')-Ia,aph(3'')-Ib,aph(6)-Id,blaACT-16,blaKPC-3,blaOXA-9,blaTEM-1A,dfrA14,sul2
17306	Urine	2021	NJ	<i>Klebsiella pneumoniae</i>	ST412	blaKPC-2,blaSHV-187,fosA6,OqxA,OqxB,qnrS1
17305	Urine	2021	NJ	<i>Escherichia coli</i>	ST43	aadA5,blaCTX-M-15,dfrA17,mdf(A),qacE,sitABCD,sul1
17304	Urine	2021	NJ	<i>Klebsiella pneumoniae</i>	ST258	aac(6')-Ib,ant(3'')-Ia,aph(3'')-Ib,aph(6)-Id,blaKPC-3,blaOXA-9,blaSHV-12,blaTEM-1A,dfrA14,fosA6,mph(A),OqxA,OqxB,sul2

Table S2. Genotypic Results

Cepheid ID	Sample type	Year	State	Organism by K-mer spectra	MLST	Resistance genes identified
17303	Urine	2021	NJ	<i>Klebsiella aerogenes</i>	ST103	fosA, ompK36 (p.A93S) (ceph), ompA, LptD
17302	Urine	2021	NJ	<i>Pseudomonas aeruginosa</i>	ST164	aph(3')-Iib,blaOXA-486,blaPDC-121,catB7,crpP,fosA
17301	Urine	2021	NJ	<i>Pseudomonas aeruginosa</i>	ST235	aadA6,aph(3'')-Ib,aph(3')-Iib,aph(6)-Id,blaOXA-488,blaPDC-35,catB7,crpP,fosA,qacE,sul1
17247	Urine	2021	KS	<i>Pseudomonas aeruginosa</i>	ST1337	aph(3')-Iib,blaOXA-50,blaPDC-471,catB7,crpP,fosA
17246	Urine	2021	KS	<i>Enterobacter cloacae</i>	ST191	blaACT-9,fosA
17245	Urine	2021	KS	<i>Serratia marcescens</i>	Not available	aac(6')-Ic,blaSRT-2,tet(41)
17244	Urine	2021	KS	<i>Escherichia coli</i>	ST8	blaCTX-M-14,mdf(A)
17243	Urine	2021	KS	<i>Escherichia coli</i>	ST53	aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaTEM-1B,dfrA14,mdf(A),qacE,sitABCD,sul2
17213	Urine	2021	KS	<i>Providencia rettgeri</i>	Not available	tet(57), CRP (CARD) (80% min identity)
17212	Urine	2021	KS	<i>Escherichia coli</i>	ST43	blaCTX-M-15,mdf(A),sitABCD
17211	Urine	2021	KS	<i>Escherichia coli</i>	ST24	aadA5,aph(3'')-Ib,aph(6)-Id,blaCTX-M-1,blaTEM-1B,dfrA17,dfrA5,mdf(A),sitABCD,sul2
17210	Urine	2021	KS	<i>Escherichia coli</i>	ST958	aac(3)-IIa,ant(3'')-Ia,aph(3')-Ia,aph(3'')-Ib,aph(6)-Id,blaCTX-M-55,blaTEM-1B,dfrA14,floR,mdf(A),qnrB19,sitABCD,sul2,sul3,tet(A)

Table S2. Genotypic Results

Cepheid ID	Sample type	Year	State	Organism by K-mer spectra	MLST	Resistance genes identified
17209	Urine	2021	KS	<i>Escherichia coli</i>	ST958	aac(3)-IIa,ant(3'')-Ia,aph(3')-Ia,aph(3'')-Ib,aph(6)-Id,blaCTX-M-55,blaTEM-1B,dfrA14,floR,mdf(A),qnrB19,sitABCD,sul2,sul3,tet(A)
17208	Urine	2021	KS	<i>Enterobacter cloacae</i>	ST171	aac(6')-Ib-cr,ant(3'')-Ia,aph(3'')-Ib,aph(6)-Id,blaACT-16,blaCTX-M-15,blaOXA-1,blaTEM-1B,catB3,dfrA14,fosA,qnrB1,sul2,tet(A)
17207	Urine	2021	KS	<i>Escherichia coli</i>	ST66	aac(6')-Ib-cr,aadA5,ant(3'')-Ia,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaOXA-1,catB3,dfrA1,dfrA17,mdf(A),qacE,sitABCD,sul1,sul2,tet(B)
17206	Blood	2021	CA	<i>Citrobacter freundii</i>	Not available	blaCMY-67
17205	Urine	2021	CA	<i>Escherichia coli</i>	Inconclusive	aac(6')-Ib-cr,aac(6')-Ib-cr,aadA5,blaCTX-M-15,blaKPC-2-like (truncated),blaOXA-1,blaTEM-1B,catB3,dfrA17,erm(B),mdf(A),mph(A),qacE,sul1
17204	Urine	2021	CA	<i>Escherichia coli</i>	Inconclusive	aac(3)-IId,aadA5,aph(3'')-Ib,aph(6)-Id,blaCTX-M-27,blaTEM-1B,dfrA17,mdf(A),mph(A),qacE,sitABCD,sul1,sul2,tet(A)
17202	Blood	2021	CA	<i>Escherichia coli</i>	Inconclusive	blaCTX-M-14,mdf(A),sitABCD
17201	Blood	2021	CA	<i>Escherichia coli</i>	ST221	blaOXA-48,mdf(A),sitABCD
17200	Blood	2021	CA	<i>Klebsiella pneumoniae</i>	ST11	aac(6')-Ib-cr,aadA2,ARR-3,blaCTX-M-65,blaKPC-2,blaOXA-1,blaSHV-187,blaTEM-1B,catB3,dfrA1,fosA3,fosA6,mph(A),qacE,sul1,tet(A)
17199	Blood	2021	CA	<i>Serratia marcescens</i>	Not available	aac(6')-Ic,blaSME-2,blaSST-1,tet(41)
17198	Blood	2021	CA	<i>Escherichia coli</i>	ST2	aac(6')-Ib-cr,aadA2,aadA5,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaNDM-5,blaOXA-1,catA1,catB3,dfrA12,dfrA17,mdf(A),mph(A),qacE,sitABCD,sul1,sul2,tet(B)
17747	Blood	2021	TN	<i>Acinetobacter baumannii</i>	ST2	aac(3)-Ia,ant(3'')-Ia,aph(3'')-Ib,aph(6)-Id,blaADC-25,blaOXA-23,blaOXA-66,qacE,sul1,tet(B)

Table S2. Genotypic Results

Cepheid ID	Sample type	Year	State	Organism by K-mer spectra	MLST	Resistance genes identified
17748	Blood	2021	TN	<i>Acinetobacter baumannii</i>	Inconclusive	blaADC-25,blaOXA-24,blaOXA-317
17195	Blood	2021	CA	<i>Pseudomonas aeruginosa</i>	ST357	aac(6')-II,ant(3'')-Ia,aph(3')-IIB,aph(3')-VI,ARR-3,blaNDM-1,blaOXA-10,blaOXA-50,blaPAO,blaVEB-1,catB7,cml,cmlA1,crpP,dfrB2,fosA,qacE,sul1,tet(A)
17194	Blood	2021	CA	<i>Escherichia coli</i>	ST43	aac(3)-IId,aadA2,aadA5,aph(3'')-Ib,aph(6)-Id,blaCTX-M-27,blaTEM-1B,dfrA12,dfrA17,mdf(A),mph(A),qacE,sitABCD,sul1,sul2,tet(A)
17193	Blood	2021	CA	<i>Enterobacter hormaechei</i> supsp. <i>steigerwaltii</i>	ST636	blaACT-7, fosA
17192	Blood	2021	CA	<i>Escherichia coli</i>	ST8	blaCTX-M-27, blaTEM-1B, mdf(A)
17191	Blood	2021	CA	<i>Klebsiella pneumoniae</i>	ST15	aac(6')-Ib-cr,aadA16,aadA2,ant(3'')-Ia,aph(3')-Ia,aph(3'')-Ib,aph(6)-Id,ARR-3,blaCTX-M-27,blaSHV-106/28,cml,cmlA1,dfrA12,dfrA27,fosA6,oqxA,oqxB,qacE,sul1,sul3,tet(A)
17190	Blood	2021	CA	<i>Pseudomonas aeruginosa</i>	ST2676	aph(3')-IIB,blaOXA-395,blaPDC-142,catB7,fosA
17189	Blood	2021	CA	<i>Pseudomonas aeruginosa</i>	ST1400	aph(3')-IIB,blaOXA-395,blaPAO,catB7,fosA
17188	Urine	2021	CA	<i>Klebsiella aerogenes</i>	ST207	fosA,oqxA,oqxB, ompK36 (p.A217S) (carba), ompK36 (p.L191Q), ompK36 (p.D224E), ompK36 (p.F207W), ompK36 (p.N49S) (ceph)
17187	Urine	2021	CA	<i>Escherichia coli</i>	ST5614 (Achtmar)	aadA5,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,dfrA17,mdf(A),qacE,qnrS1,sul2,tet(A)
17186	Urine	2021	CA	<i>Escherichia coli</i>	ST648 (Achtmar)	aadA2,blaCMY-42,blaCTX-M-15,dfrA12,erm(B),mdf(A),mph(A),qacE,sul1
17185	Urine	2021	CA	<i>Klebsiella pneumoniae</i>	ST101	aac(3)-IIa,aac(6')-Ib-cr,blaCTX-M-15,blaOXA-1,blaOXA-48,blaSHV-187,catB3,dfrA14,fosA,oqxA,oqxB

Table S2. Genotypic Results

Cepheid ID	Sample type	Year	State	Organism by K-mer spectra	MLST	Resistance genes identified
17184	Urine	2021	CA	<i>Escherichia coli</i>	ST44	aadA2,blaCTX-M-15,blaNDM-5,dfrA12,mdf(A),qacE,sitABCD,sul1,tet(B)
17183	Urine	2021	CA	<i>Escherichia coli</i>	inconclusive	aadA5,aph(3'')-Ib,aph(6)-Id,blaKPC-2,blaTEM-1B,dfrA17,mdf(A),mph(A),qacE,sitABCD,sul1,sul2,tet(A)
17182	Urine	2021	CA	<i>Klebsiella michiganensis</i>	Inconclusive	aac(3)-IIa,aac(3)-IId,aac(6')-Ib-cr,ant(3'')-Ia,aph(3'')-Ib,aph(6)-Id,ARR-3,blaNDM-7,blaOXA-1,blaOXA-10,blaOXY-2-8,catA2,catB3,cml,cmlA1,dfrA14,floR,mph(A),qacE,qnrS1,sul1,sul2
17181	Urine	2021	CA	<i>Enterobacter asburiae</i>	ST-252	aac(6')-Ib-cr,ant(3'')-Ia,ARR-3,blaACT-3,blaKPC-2,blaOXA-10,blaSHV-12,cml,cmlA1,dfrA14,floR,fosA,qacE,qnrE1,qnrS1,sul1,sul2,tet(D)
17180	Urine	2021	CA	<i>Enterobacter hormaechei</i>	ST-110	blaACT-15,blaKPC-2,fosA,qnrS1
17179	Urine	2021	CA	<i>Klebsiella pneumoniae</i>	ST15	aac(6')-Ib,aph(3'')-Ib,aph(6)-Id,ARR-3,blaCMY-6,blaCTX-M-15,blaNDM-1,blaSHV-106/28,blaTEM-1B,fosA6,oqxA,oqxB,qacE,rmtC,rmtF,sul1,sul2
17178	Urine	2021	CA	<i>Escherichia coli</i>	inconclusive	aac(6')-Ib-cr,aadA5,aph(3'')-Ib,aph(6)-Id,ARR-3,blaCTX-M-27,blaDHA-1,blaOXA-1,blaOXA-48,catB3,dfrA17,fosA3,mdf(A),mph(A),qacE,sitABCD,sul1,sul2,tet(A)
17836	Blood	2022	IL	<i>Acinetobacter baumannii</i>	ST2	aph(3')-Ia,aph(3'')-Ib,aph(6)-Id,blaADC-25,blaOXA-24,blaOXA-66,mph(E),msr(E),tet(B)
17176	Urine	2021	CA	<i>Pseudomonas aeruginosa</i>	ST644	aac(6')-Ib,aac(6')-Ib-cr,aadA11,aadA15,aadA2,ant(3'')-Ia,aph(3'')-Ib,aph(3')-IIb,aph(3')-VIa,aph(6)-Id,ARR-8,blaCARB-2,blaIMP-62,blaNDM-1,blaOXA-486,blaPAO,blaPME-1,catB7,cml,cmlA1,crpP,fosA,qacE,qnrVC1,sul1,tet(G)
17175	Urine	2021	KS	<i>Escherichia coli</i>	ST8	aph(3'')-Ib,aph(6)-Id,blaCTX-M-14,mdf(A),sul2
17174	Urine	2021	KS	<i>Pseudomonas aeruginosa</i>	ST2053	aac(6')-Ib-cr,aph(3')-IIb,blaOXA-396/494,blaPDC-386,catB7,fosA,sul2
17173	Urine	2021	KS	<i>Klebsiella pneumoniae</i>	ST2546-like	aac(3)-IIa,aac(6')-Ib-cr,aph(3'')-Ib,aph(6)-Id,blaCTX-M-15,blaOXA-1,blaSHV-187,blaTEM-1B,catB3,dfrA14,fosA,OqxA,OqxB,qnrB1,sul2

Table S2. Genotypic Results

Cepheid ID	Sample type	Year	State	Organism by K-mer spectra	MLST	Resistance genes identified
17172	Urine	2021	KS	<i>Escherichia coli</i>	ST254	blaCTX-M-15,sitABCD,mdf(A),qnrS1