

Supplemental Material

MIC ($\mu\text{g/mL}$) of FEP-ZID and Comparators against All Tested Strains

(FEP: Cefepime; ZID: Zidebactam; CFP: cefoperazone; SUL: Sulbactam; TOL: Ceftolozane; PIP: Piperacillin; TAZ: Tazobactam; CAZ: ceftazidime; IPM: Imipenem; AMIK: Amikacin; LEV: Levofloxacin; PB: Polymyxin B)

Isolate	Organism	Resistance Mechanism(s)	FEP	FEP-ZID	CFP-SUL	TOL-TAZ	PIP-TAZ	CAZ	IPM	AMIK	LEV	PB
G1646	<i>E. coli</i>	CTX-M-1	4	0.12	8	0.5	1	4	0.25	1	0.5	0.5
G1647	<i>E. coli</i>	CTX-M-45	≥ 128	0.12	16	1	16	8	0.12	2	≥ 32	0.5
G1655	<i>E. coli</i>	CTX-M-14	4	0.12	4	0.12	2	1	0.12	≥ 256	0.06	1
G1659	<i>E. coli</i>	SHV-3	16	0.25	1	0.5	4	≥ 256	0.5	4	0.5	0.5
G1661	<i>E. coli</i>	CTX-M-15, OXA-1	32	0.25	4	0.25	16	64	0.12	16	16	0.5
G1671	<i>E. coli</i>	CTX-M-14-like	4	0.12	8	0.5	2	2	0.12	8	16	0.5
G1681	<i>E. coli</i>	CTX-M-18	16	0.12	4	0.5	4	4	0.12	64	0.12	0.5
G1633	<i>E. coli</i>	SHV-3	0.12	0.06	0.5	≤ 0.06	1	2	0.12	4	0.03	0.5
0086	<i>E. coli</i>	CTX-M-9	64	0.5	32	0.5	16	4	0.12	4	16	0.5
G1743	<i>E. coli</i>	CTX-M-12	32	0.12	16	2	8	32	0.12	8	0.06	2
0081	<i>E. coli</i>	CMY-2 type	0.5	0.06	4	1	8	32	0.12	4	≥ 32	1
0085	<i>E. coli</i>	CMY-2	1	0.25	8	8	32	64	0.25	2	≥ 32	1
G1683	<i>E. coli</i>	DHA-like	0.12	0.25	2	0.5	4	64	4	4	≥ 32	1
G164	<i>E. coli</i>	High AmpC, SHV-12 like	16	2	16	16	128	≥ 256	16	16	≥ 32	1
G15238	<i>E. coli</i>	KPC-3 like	16	0.25	32	16	≥ 256	128	4	2	≥ 32	0.5
G15239	<i>E. coli</i>	KPC-3 like	2	2	8	8	128	64	2	16	≥ 32	0.5
G1736	<i>E. coli</i>	GES-5, TEM-1 like, OXA-1, CTX-M	≥ 128	0.5	32	8	64	≥ 256	0.12	≥ 256	≥ 32	0.5
0048	<i>E. coli</i>	NDM	≥ 128	0.5	≥ 64	≥ 64	≥ 256	≥ 256	4	≥ 256	≥ 32	0.5

Isolate	Organism	Resistance Mechanism(s)	FEP	FEP-ZID	CFP-SUL	TOL-TAZ	PIP-TAZ	CAZ	IPM	AMIK	LEV	PB
0042	<i>K. pneumoniae</i>	CTX-M28, OMPK36, OMPK-35	≥128	1	32	≥64	≥256	128	≤0.06	8	≥32	1
0043	<i>K. pneumoniae</i>	SHV-12, OMPK-36	32	1	8	16	≥256	≥256	≤0.06	2	4	1
0044	<i>K. pneumoniae</i>	TEM-1, SHV-1, CTX-M-15	≥128	4	32	≥64	≥256	≥256	≤0.06	64	≥32	1
0107	<i>K. pneumoniae</i>	CTX-M2, OMPK-36	≥128	2	≥64	≥64	≥256	64	2	≥256	≥32	1
0109	<i>K. pneumoniae</i>	TEM-1, SHV-1, CTX-M-15	≥128	4	≥64	≥64	≥256	≥256	0.5	32	≥32	≥16
G1660	<i>K. pneumoniae</i>	TEM-16	2	0.25	8	32	≥256	≥256	0.12	16	2	1
0079	<i>K. pneumoniae</i>	CTX-M14,DHA-1,OMPK35	≥128	2	≥64	32	≥256	32	32	≥256	≥32	1
G1616	<i>K. pneumoniae</i>	LAT-4	1	0.25	4	16	64	≥256	0.25	16	0.06	2
G162	<i>K. pneumoniae</i>	FOX-5, SHV-4 like	0.25	0.12	4	2	16	64	0.12	1	0.12	1
G1685	<i>K. pneumoniae</i>	CMV-2-like	8	2	≥64	32	≥256	≥256	16	1	2	1
G1702	<i>K. pneumoniae</i>	FOX-1	0.12	0.06	4	0.5	4	32	0.12	8	0.06	1
G1754	<i>K. pneumoniae</i>	TEM-1,SHV-1, OXA-9, SHV-5, ACT-1	0.5	0.12	8	16	≥256	≥256	≤0.06	64	0.25	1
G15007	<i>K. pneumoniae</i>	KPC-2-like	1	0.12	8	16	64	64	0.25	32	≥32	1
G1510	<i>K. pneumoniae</i>	KPC-4	64	0.5	32	32	128	≥256	0.5	1	≥32	1
G1511	<i>K. pneumoniae</i>	KPC-4	4	0.12	8	32	64	≥256	0.5	1	≥32	1
G1513	<i>K. pneumoniae</i>	KPC-3 like	8	0.12	16	32	128	≥256	0.25	64	≥32	1

Isolate	Organism	Resistance Mechanism(s)	FEP	FEP-ZID	CFP-SUL	TOL-TAZ	PIP-TAZ	CAZ	IPM	AMIK	LEV	PB
G1514	<i>K. pneumoniae</i>	KPC-3, SHV-12-like, SHV-1-like, OXA-9-like, TEM-1-like	2	0.12	8	16	128	≥256	0.25	64	≥32	1
G15313	<i>K. pneumoniae</i>	KPC-2-like	2	0.12	8	16	128	64	≤0.06	64	≥32	1
G157	<i>K. pneumoniae</i>	KPC-8	≥128	2	≥64	≥64	≥256	≥256	32	64	≥32	1
G158	<i>K. pneumoniae</i>	KPC-8	≥128	2	≥64	≥64	≥256	≥256	32	64	≥32	1
G159	<i>K. pneumoniae</i>	KPC-6	2	0.25	16	32	≥256	128	2	≤0.25	16	1
G1639	<i>K. pneumoniae</i>	KPC-2	8	0.5	32	16	≥256	64	8	2	0.12	1
G1668	<i>K. pneumoniae</i>	KPC	32	0.5	≥64	≥64	≥256	≥256	8	8	≥32	1
G1675	<i>K. pneumoniae</i>	KPC-2, SHV-5-like, TEM-1-like	≥128	1	≥64	32	≥256	≥256	32	32	≥32	1
G1725	<i>K. pneumoniae</i>	KPC	64	1	≥64	≥64	≥256	≥256	64	64	≥32	≥16
G1729	<i>K. pneumoniae</i>	KPC	4	0.25	16	8	≥256	32	8	64	0.12	1
0034	<i>K. pneumoniae</i>	IMP	2	0.12	16	≥64	8	128	0.5	2	1	1
0040	<i>K. pneumoniae</i>	VIM	≥128	1	≥64	≥64	≥256	≥256	64	64	≥32	≥16
0041	<i>K. pneumoniae</i>	NDM	64	0.5	≥64	≥64	≥256	≥256	4	≥256	16	1
0046	<i>K. pneumoniae</i>	VIM	≥128	1	≥64	≥64	≥256	≥256	32	64	≥32	≥16
0076	<i>K. pneumoniae</i>	VIM	8	0.12	32	≥64	128	≥256	4	16	1	1
0080	<i>K. pneumoniae</i>	IMP	0.03	0.06	≤0.25	0.25	4	0.5	0.5	2	0.25	1
G15291	<i>K. pneumoniae</i>	VIM-like, SHV-12-like, SHV-1-like	≥128	32	≥64	≥64	≥256	≥256	32	64	≥32	≥16
G15300	<i>K. pneumoniae</i>	IMP-8	8	0.12	16	≥64	8	≥256	1	32	≥32	≥16
G15353	<i>K. pneumoniae</i>	NDM-1, CTX-M-15-like, SHV-1-like	≥128	0.5	≥64	≥64	≥256	≥256	16	≥256	32	1
G15409	<i>K. pneumoniae</i>	NDM-1, CTX-M-15, TEM-1, OXA-1	32	0.25	≥64	≥64	≥256	≥256	16	32	≥32	1

Isolate	Organism	Resistance Mechanism(s)	FEP	FEP-ZID	CFP-SUL	TOL-TAZ	PIP-TAZ	CAZ	IPM	AMIK	LEV	PB
G15406	<i>K. pneumoniae</i>	NDM-1, CTX-M-15, OXA-181	≥128	1	≥64	≥64	≥256	≥256	128	16	≥32	1
0075	<i>K. pneumoniae</i>	OXA-232	≥128	1	32	≥64	≥256	128	1	≥256	≥32	1
G15480	<i>K. pneumoniae</i>	OXA-48	0.06	0.06	4	0.5	128	0.5	1	1	1	1
G15481	<i>K. pneumoniae</i>	OXA-48	≥128	2	32	≥64	≥256	128	8	16	≥32	1
G15482	<i>K. pneumoniae</i>	OXA-48	≥128	≥128	32	≥64	≥256	≥256	1	32	≥32	≥16
G15483	<i>K. pneumoniae</i>	OXA-48	32	0.5	16	32	≥256	128	0.5	16	8	2
G15484	<i>K. pneumoniae</i>	OXA-48	≥128	2	≥64	≥64	≥256	≥256	4	32	≥32	1
G15485	<i>K. pneumoniae</i>	OXA-48	≥128	2	≥64	≥64	≥256	≥256	2	≥256	≥32	1
G15486	<i>K. pneumoniae</i>	OXA-48	≥128	2	≥64	≥64	≥256	≥256	2	8	≥32	≥16
G15489	<i>K. pneumoniae</i>	OXA-48	≥128	0.5	16	≥64	≥256	≥256	2	32	≥32	8
G15490	<i>K. pneumoniae</i>	OXA-48	32	0.5	16	≥64	≥256	128	1	4	≥32	0.5
G15491	<i>K. pneumoniae</i>	OXA-181	≥128	2	≥64	≥64	≥256	≥256	64	16	≥32	1
		DHA-like, SHV ESBL, TEM-1-like, K1	0.12	0.06	2	0.25	4	4	0.5	8	4	1
G163	<i>K. oxytoca</i>											
G15004	<i>K. oxytoca</i>	KPC	1	0.5	≥64	32	≥256	≥256	0.25	32	4	0.5
G1640	<i>K. oxytoca</i>	KPC	64	2	≥64	≥64	≥256	≥256	64	64	4	0.5
G166	<i>E. aerogenes</i>	SHV-4, TEM-1	0.5	0.12	1	0.5	4	64	0.5	2	0.06	1
G1638	<i>E. aerogenes</i>	High AmpC, SHV-5-like	0.5	0.06	1	0.25	8	64	0.5	2	0.06	1
G329	<i>E. aerogenes</i>	Hi AmpC, SHV-5-like	0.5	0.12	1	0.25	4	64	0.5	2	0.06	1
0074	<i>E. aerogenes</i>	OXA-48	0.25	0.12	8	1	≥256	1	1	4	0.25	1
0065	<i>E. cloacae</i>	cAmpC	≥128	2	≥64	≥64	≥256	≥256	2	16	≥32	1
G15162	<i>E. cloacae</i>	NMC-A	0.03	0.03	≤0.25	0.25	4	0.5	64	2	0.06	≥16
G152	<i>E. cloacae</i>	KPC	2	0.25	16	4	128	8	0.5	≤0.25	0.25	1

Isolate	Organism	Resistance Mechanism(s)	FEP	FEP-ZID	CFP-SUL	TOL-TAZ	PIP-TAZ	CAZ	IPM	AMIK	LEV	PB
G15270	<i>E. cloacae</i>	KPC	16	0.25	16	16	128	≥256	4	4	1	0.5
G15296	<i>E. cloacae</i>	KPC	4	0.25	32	8	128	32	4	8	0.12	0.5
G15306	<i>E. cloacae</i>	KPC-2-like	2	1	32	16	128	128	≤0.06	2	2	1
G15315	<i>E. cloacae</i>	KPC-2-like	4	0.5	32	8	128	32	8	2	8	1
G15333	<i>E. cloacae</i>	KPC-2-like	4	0.12	8	8	128	16	4	2	0.06	1
G15405	<i>E. cloacae</i>	NDM	64	0.25	≥64	≥64	≥256	≥256	4	≥256	≥32	1
G1691	<i>E. cloacae</i>	IMP-8	2	0.12	2	32	2	64	2	32	0.5	≥16
0038	<i>E. cloacae</i>	NDM	≥128	2	≥64	≥64	≥256	≥256	≥256	≥256	≥32	1
G6809	<i>E. cloacae</i>	KPC-18, VIM-1	32	0.25	≥64	≥64	≥256	≥256	4	16	2	1
G6810	<i>E. cloacae</i>	KPC-18, VIM-1	64	0.5	≥64	≥64	≥256	≥256	4	32	2	1
0066	<i>E. cloacae</i>	OXA-232	≥128	2	≥64	≥64	≥256	≥256	2	16	≥32	1
G1749	<i>C. freundii</i>	KPC	4	0.12	32	8	128	32	0.5	2	≥32	1
G15327	<i>C. freundii</i> complex	KPC-3 like	1	0.12	16	4	128	4	1	≤0.25	≥32	1
0057	<i>M. morganii</i>	NDM	8	2	≥64	≥64	16	≥256	8	4	16	≥16
G1649	<i>S. marcescens</i>	SHV-7	1	0.5	8	4	32	64	0.12	1	≥32	≥16
G1764	<i>S. marcescens</i>	SME-like	16	0.06	1	0.5	4	0.25	64	≥256	0.25	8
0091	<i>S. marcescens</i>	SME	0.06	2	0.5	0.5	1	≤0.06	128	1	0.25	≥16
0099	<i>S. marcescens</i>	SME	0.06	1	1	0.5	2	≤0.06	64	1	0.25	≥16
G15081	<i>S. marcescens</i>	SME-like	0.03	0.25	≤0.25	0.5	1	≤0.06	64	1	0.06	≥16
G15166	<i>S. marcescens</i>	SME-like	0.06	0.12	1	0.5	2	≤0.06	64	1	0.12	≥16
G153	<i>S. marcescens</i>	KPC	16	1	32	32	128	64	32	2	4	≥16
G15126	<i>S. marcescens</i>	IMP-1	64	16	≥64	≥64	64	≥256	128	4	16	2
G15407	<i>S. marcescens</i>	NDM-1	64	16	32	≥64	32	≥256	128	≥256	8	2
G15408	<i>P. rettgeri</i>	NDM-1	≥128	≥128	≥64	≥64	≥256	≥256	128	≥256	≥32	≥16
G1748	<i>H. alvei</i>	KPC	1	0.5	8	8	64	64	4	2	0.25	≥16

Isolate	Organism	Resistance Mechanism(s)	FEP	FEP-ZID	CFP-SUL	TOL-TAZ	PIP-TAZ	CAZ	IPM	AMIK	LEV	PB
G16288	<i>P. aeruginosa</i>	Overexpressed MexXY, OprD not functional	4	4	4	0.5	8	4	16	8	8	2
G16291	<i>P. aeruginosa</i>	Overexpressed mexXY, OprD diminished, derepressed AmpC	16	16	32	2	128	32	16	16	16	2
G16350	<i>P. aeruginosa</i>	Overexpressed MexAB-OprM, derepressed AmpC	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG
G16352	<i>P. aeruginosa</i>	Overexpressed MexAB-OprM, OprD diminished, derepressed AmpC	32	32	≥64	1	64	32	≥256	16	8	2
G16368	<i>P. aeruginosa</i>	Overexpressed MexAB-OprM, OprD diminished	8	4	8	0.5	16	8	32	4	4	2
G16369	<i>P. aeruginosa</i>	Overexpressed MexEF-OprM, OprD diminished	16	2	1	1	2	4	≥256	≥256	≥32	4
G1778	<i>P. aeruginosa</i>	Partially derepressed	0.5	0.5	≤0.25	0.5	0.5	4	2	4	0.25	2
G15	<i>P. aeruginosa</i>	KPC-5	≥128	8	≥64	16	≥256	128	≥256	16	≥32	2
G15013	<i>P. aeruginosa</i>	KPC	≥128	8	≥64	16	≥256	64	≥256	32	≥32	2

Isolate	Organism	Resistance Mechanism(s)	FEP	FEP-ZID	CFP-SUL	TOL-TAZ	PIP-TAZ	CAZ	IPM	AMIK	LEV	PB
G15311	<i>P. aeruginosa</i>	KPC	≥128	8	≥64	16	≥256	128	≥256	16	≥32	4
0054	<i>P. aeruginosa</i>	VIM-4	64	8	≥64	≥64	128	64	≥256	2	≥32	2
0103	<i>P. aeruginosa</i>	IMP-1	≥128	8	≥64	≥64	16	≥256	≥256	32	≥32	4
G15015	<i>P. aeruginosa</i>	IMP-7	≥128	8	≥64	≥64	16	≥256	≥256	32	≥32	4
G15017	<i>P. aeruginosa</i>	VIM-2	32	32	≥64	≥64	128	128	128	8	≥32	2
G15020	<i>P. aeruginosa</i>	VIM-7, OXA-45	≥128	32	≥64	≥64	≥256	≥256	≥256	32	≥32	0.5
G15297	<i>P. aeruginosa</i>	IMP-18	≥128	16	≥64	≥64	128	≥256	128	128	≥32	2
G15303	<i>P. aeruginosa</i>	GIM-1	8	8	≥64	16	128	128	128	1	16	≥16
G15304	<i>P. aeruginosa</i>	SPM-1	≥128	8	≥64	≥64	128	≥256	≥256	≥256	≥32	4
G15402	<i>P. aeruginosa</i>	IMP-7	≥128	8	≥64	≥64	16	≥256	128	4	≥32	4
G1694	<i>A. baumannii</i>	KPC	≥128	32	16	≥64	≥256	≥256	16	32	≥32	1
0036	<i>A. baumannii</i>	OXA-40	32	16	4	32	≥256	≥256	64	32	≥32	≥16
0045	<i>A. baumannii</i>	OXA-23	32	16	16	≥64	≥256	≥256	16	4	16	1
0063	<i>A. baumannii</i>	OXA-40	32	16	4	32	≥256	≥256	64	2	16	1
0070	<i>A. baumannii</i>	OXA 58	2	2	2	2	128	16	2	0.5	4	0.25
G1674	<i>A. baumannii</i>	OXA-23	32	8	16	≥64	≥256	≥256	16	4	2	1
G1687	<i>A. baumannii</i>	OXA-23	≥128	16	32	≥64	≥256	≥256	16	≥256	8	1
G1703	<i>A. baumannii</i>	OXA-23	32	16	16	16	≥256	128	32	≥256	16	2
G1732	<i>A. baumannii</i>	OXA-23	32	16	16	16	≥256	128	32	≥256	8	1
G1734	<i>A. baumannii</i>	OXA-40	16	4	32	8	≥256	128	128	1	8	1
G1744	<i>A. baumannii</i>	OXA-40	16	16	4	8	≥256	128	128	16	16	2
0083	<i>A. baumannii</i>	OXA-23, NDM	≥128	≥128	≥64	≥64	≥256	≥256	128	≥256	8	2