

**Table S1.** Combination assay with OMT and PMBN against Gram-negative pathogens

Strain		MIC ( $\mu\text{g/mL}$ ) of OMT			
		Single OMT	In combination with PMBN ( $\mu\text{g/mL}$ )		
			8	16	32
<i>Escherichia coli</i>	NIHJ JC-2	>64	32	16	16
<i>Klebsiella pneumoniae</i>	NCTC9632	>64	64	64	32

Abbreviations: MIC, minimum inhibitory concentration; OMT, 5-*O*-mycaminosyltylonolide; PMBN, polymixin B nonapeptide

**Table S2.** The MIC values of antimicrobial agents against Gram-negative pathogens

strain		Resistance	MIC ( $\mu\text{g/mL}$ )										
			PIPC	CAZ	CFPM	IPM	MEPM	AZT	CPFX	LVFX	GM	AMK	CL
<i>E. coli</i>	NIHJ JC-2	-	4	0.25	$\leq 0.06$	0.12	$\leq 0.06$	0.12	$\leq 0.06$	$\leq 0.06$	2	4	1
<i>K. pneumoniae</i>	NCTC9632	-	16	0.12	$\leq 0.06$	1	$\leq 0.06$	$\leq 0.06$	0.12	0.5	0.5	1	8
<i>E. cloacae</i>	IFO13535	-	8	8	$\leq 0.06$	2	0.25	2	$\leq 0.06$	$\leq 0.06$	0.5	1	>32
<i>P. aeruginosa</i>	PAO1	-	4	1	1	1	0.5	4	0.25	1	1	2	0.5
<i>A. baumannii</i>	ATCC19606	-	64	16	16	0.5	1	32	2	1	16	16	0.5
<i>E. coli</i>	AR Bank #48	CRE	>128	>64	>128	16	32	>128	128	32	>128	>128	0.25
<i>E. coli</i>	AR Bank #55	CRE	>128	>64	128	8	16	16	128	16	>128	>128	0.25
<i>E. coli</i>	AR Bank #69	CRE	>128	>64	16	8	4	4	$\leq 0.06$	$\leq 0.06$	2	16	0.12
<i>E. coli</i>	AR Bank #450	CRE	>128	>64	32	32	32	>128	$\leq 0.06$	$\leq 0.06$	1	2	0.25
<i>E. coli</i>	KUB4015	-	2	0.25	$\leq 0.06$	0.12	$\leq 0.06$	1	0.25	1	0.5	1	0.5
<i>E. coli</i>	KUB4019	-	1	0.25	$\leq 0.06$	0.12	$\leq 0.06$	$\leq 0.06$	$\leq 0.06$	$\leq 0.06$	2	2	0.25
<i>E. coli</i>	KUB4021	-	4	0.5	$\leq 0.06$	0.25	$\leq 0.06$	0.12	$\leq 0.06$	0.12	2	4	0.25
<i>E. coli</i>	KUB4038	-	16	1	$\leq 0.06$	0.12	$\leq 0.06$	2	0.25	0.5	2	4	0.25
<i>E. coli</i>	KUB4045	-	2	0.12	$\leq 0.06$	0.12	$\leq 0.06$	$\leq 0.06$	$\leq 0.06$	$\leq 0.06$	0.5	1	0.25
<i>E. coli</i>	ATCC25922	-	4	0.25	$\leq 0.06$	0.25	$\leq 0.06$	0.12	$\leq 0.06$	$\leq 0.06$	2	4	2
<i>K. pneumoniae</i>	AR Bank #41	CRE	>128	>64	>128	4	8	>128	32	16	>128	>128	0.25
<i>K. pneumoniae</i>	AR Bank #49	CRE	>128	>64	>128	64	128	>128	>128	>128	>128	>128	0.25
<i>K. pneumoniae</i>	AR Bank #68	CRE	>128	>64	>128	64	128	>128	>128	64	>128	>128	0.25
<i>K. pneumoniae</i>	AR Bank #523	CRE	>128	>64	32	32	64	>128	8	8	2	8	4
<i>K. pneumoniae</i>	AR Bank #524	CRE	>128	>64	16	16	32	>128	64	32	1	8	4
<i>K. pneumoniae</i>	AR Bank #525	CRE	>128	>64	>128	8	16	>128	128	64	4	16	32

Abbreviations: MIC, minimum inhibitory concentration; PIPC, piperacillin; CAZ, ceftazidime; CFPM, cefepime; IPM, imipenem; MEPM, meropenem; AZT, aztreonam; CPFX, ciprofloxacin; LVFX, levofloxacin; GM, gentamicin; AMK, amikacin; CL, colistin; CRE, Carbapenem-resistant Enterobacterales