

Table 2. Influence of ionic strength and concentration of cations on the antibacterial activity of LF11 derivatives

PEPTIDE	STATIC CONDITIONS						ACTIVE GROWTH CONDITIONS							
	<i>E. coli</i> ATCC 25922		<i>B. bronchiseptica</i> 11844-99		<i>P. aeruginosa</i> 4158 – 02		<i>E. coli</i> ATCC 25922				<i>B. bronchiseptica</i> 11844-99 (CUN)			
	PB ¹	PB-CM ²	PB	PB-CM	PB	PB-CM	Non-cation adjusted ³		Cation adjusted ⁴		Non-cation adjusted		Cation adjusted	
							MIC ⁵	MBC ⁶	MIC	MBC	MIC	MBC	MIC	MBC
LF11	2	256	8	>256	4	>256	256	>256	>256	>256	256	256	>256	>256
P14	0.5	8	8	>256	2	> 256	>256	>256	>256	>256	8	8	16	32
P15	0.5	8	8	64	2	> 256	32	32	64	64	16	32	32	64
P21	1	2	0.5	>256	0.5	> 256	128	128	128	256	32	128	128	256
P22	0.5	2	2	>256	2	> 256	64	64	126	256	32	32	16	256
P24	1	8	16	>256	1	> 256	256	256	256	>256	256	256	256	256
P48	0.5	32	2	>256	2	> 256	64	64	256	>256	8	16	16	16
P49	1	8	1	>256	0.5	> 256	64	64	128	>256	32	> 256	64	128
P50	1	4	2	>256	0.5	> 256	32	32	128	256	16	16	64	128
P55	1	32	4	>256	4	> 256	128	128	128	>256	128	128	256	>256
PMB	1	0.5	0.5	0.5	1	1	1	1	1	1	1	1	0.5	0.5

¹ PB: minimum bactericidal concentration in µg/mL determined by exposing a bacterial suspension to the peptide for 18 h in phosphate buffer 20 mM; pH= 7.0

² PB-CM: determined as in 1 but PB was supplemented with 1mM Ca⁺⁺ and 1mM Mg⁺⁺

³ Mueller Hinton broth culture containing approximately 0.131-0.214 mM of Mg²⁺ and 0.07-0.14 mM Ca²⁺ as provided by the manufacturer

⁴ Mueller Hinton II broth culture containing 0.4-0.5 mM of Mg²⁺ and 0.5-0.6 mM Ca²⁺ as provided by the manufacturer

⁵ MIC: minimum inhibitory concentration in µg/mL determined by a conventional microbroth-based assay

⁶ MBC: minimum bactericidal concentration in µg/mL determined by plating aliquots of non-cloudy wells from the conventional microbroth-based MIC assay