

Supplementary Information

LC-AMP-F1 derived from the venom of the wolf spider

***Lycosa coelestis*, exhibits antimicrobial and antibiofilm**

activities compared with Melittin

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Table S1. Physical stability of LC-AMP-F1 against *E. coli*. The change of MIC under different temperature (a) and pH (b).

a

Temperature	MIC (μM)	
	LC-AMP-F1	Melittin
37 °C	5	5
80 °C	5	5
100 °C	5	5

b

pH	MIC (μM)	
	LC-AMP-F1	Melittin
5	10	2.5
6	10	5
7	5	5
8	5	5
9	10	5

Table S2. Salt sensitivity of LC-AMP-F1 in *E. coli*.

Peptide	MIC (μM)	
	LC-AMP-F1	Melittin
Control	5	5
150 mM NaCl	20	10
4.5 mM KCl	10	5
6 μM NH_4Cl	5	5
1 mM MgCl_2	20	10
2.5 mM CaCl_2	>80	20

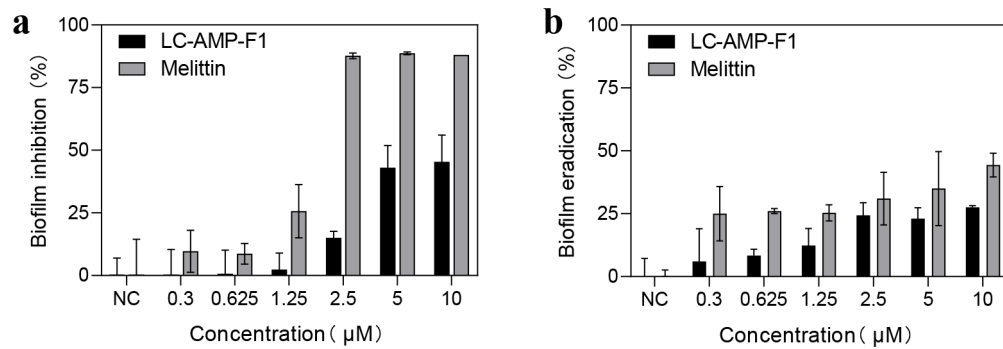


Figure S1. Inhibition (a) and eradication (b) activities of LC-AMP-F1 on 1065 biofilm.