

Supplementary Materials

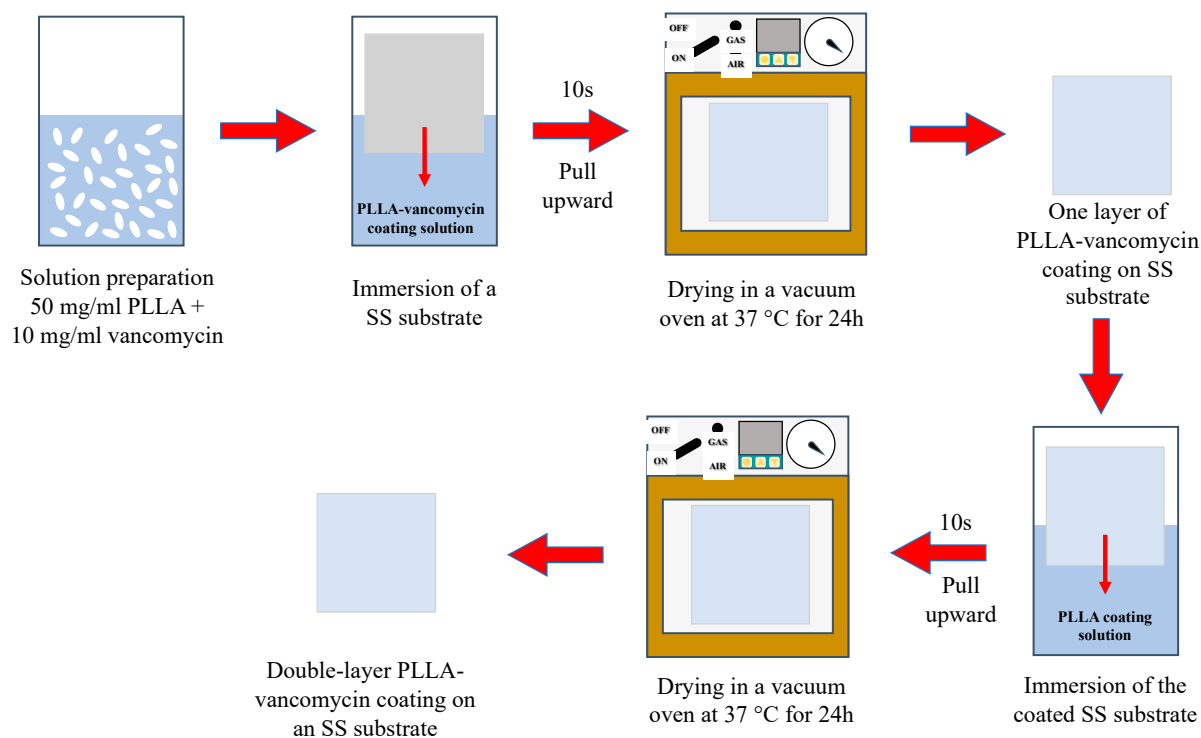


Figure S1. Schematic diagram of the preparation procedure of the double-layer PLLA-vancomycin coating on a stainless steel substrate. Note that SS represents a stainless steel substrate.

Table S1. Preparation and composition of simulated body fluid (SBF).

All reagents (Sigma-Aldrich, Singapore) in the table below were added to 500 mL of distilled water under constant stirring until the solution was homogeneous. The temperature and pH of the buffer were adjusted to 36.5 °C and 7.40, respectively. The total volume of the buffer was finally adjusted to one liter. The buffer was stored at 4 °C until use.

Reagents for SBF preparation:

Order	Reagent	Amount
1	NaCl	7.996 g
2	NaHCO ₃	0.350 g
3	KCl	0.224 g
4	K ₂ HPO ₄ ·3H ₂ O	0.228 g
5	MgCl ₂ ·6H ₂ O	0.305 g
6	1M-HCl	40 mL
7	CaCl ₂	0.278 g
8	Na ₂ SO ₄	0.071 g
9	(CH ₂ OH) ₃ CNH ₂	6.057 g

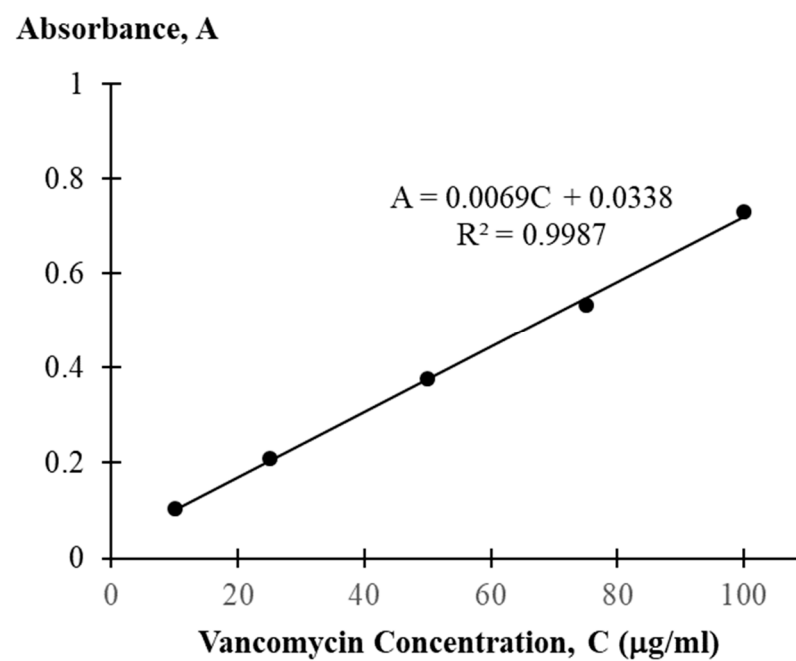


Figure S2. Calibration curve of vancomycin in SBF for colorimetric quantitation.