

Supporting Information

Stable and Self-healable LbL Coating with Antibiofilm Efficacy Based on Alkylated Polyethyleneimine Micelles

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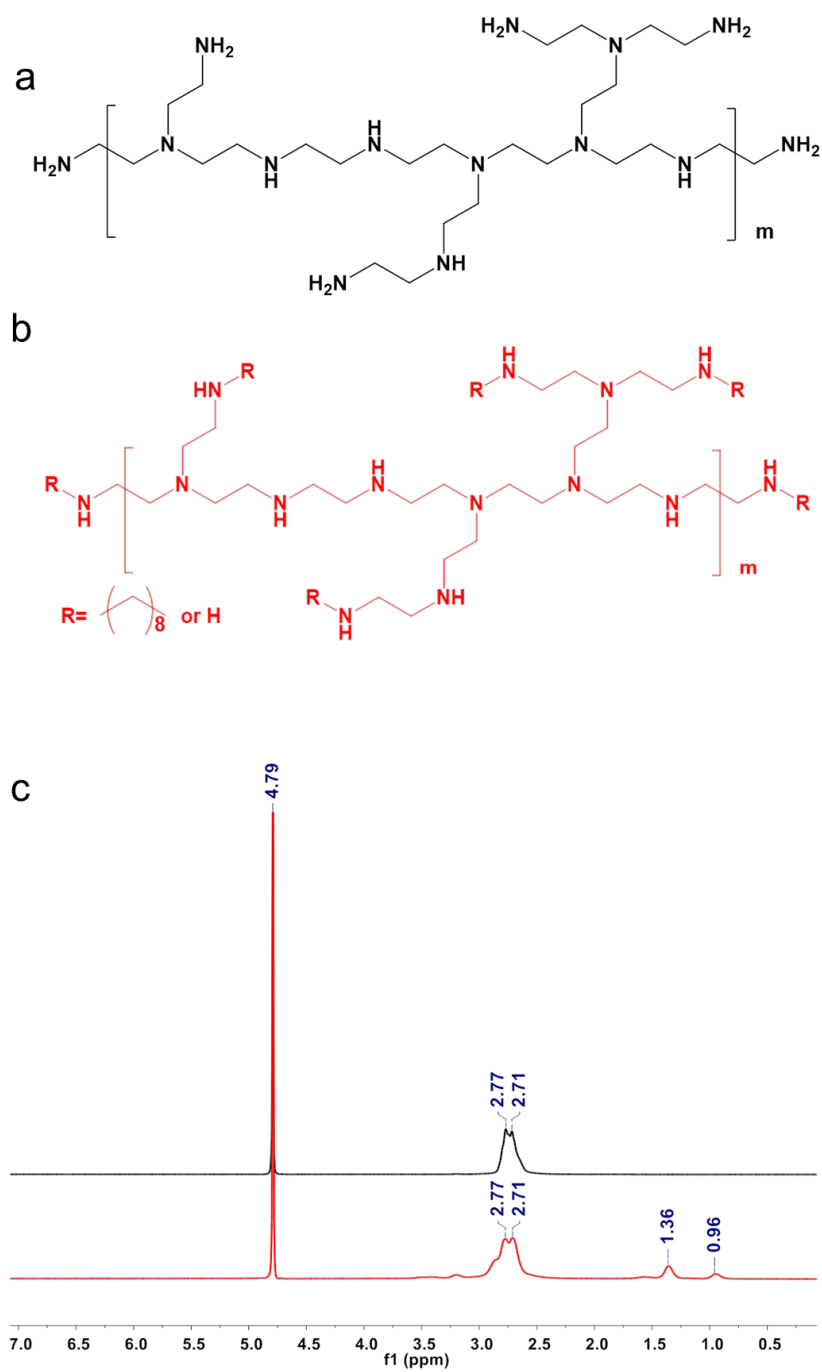


Figure S1. Structure of PEI (**a**) and DPEI (**b**), ^1H NMR of PEI and DPEI (**c**).

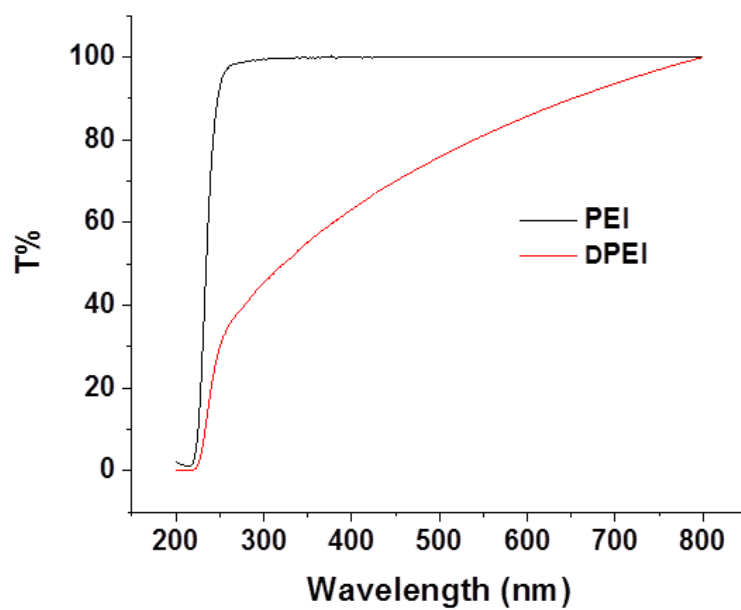


Figure S2. UV-vis transmittance spectra of PEI and DPEI solution at the same concentration (1 mg/mL).

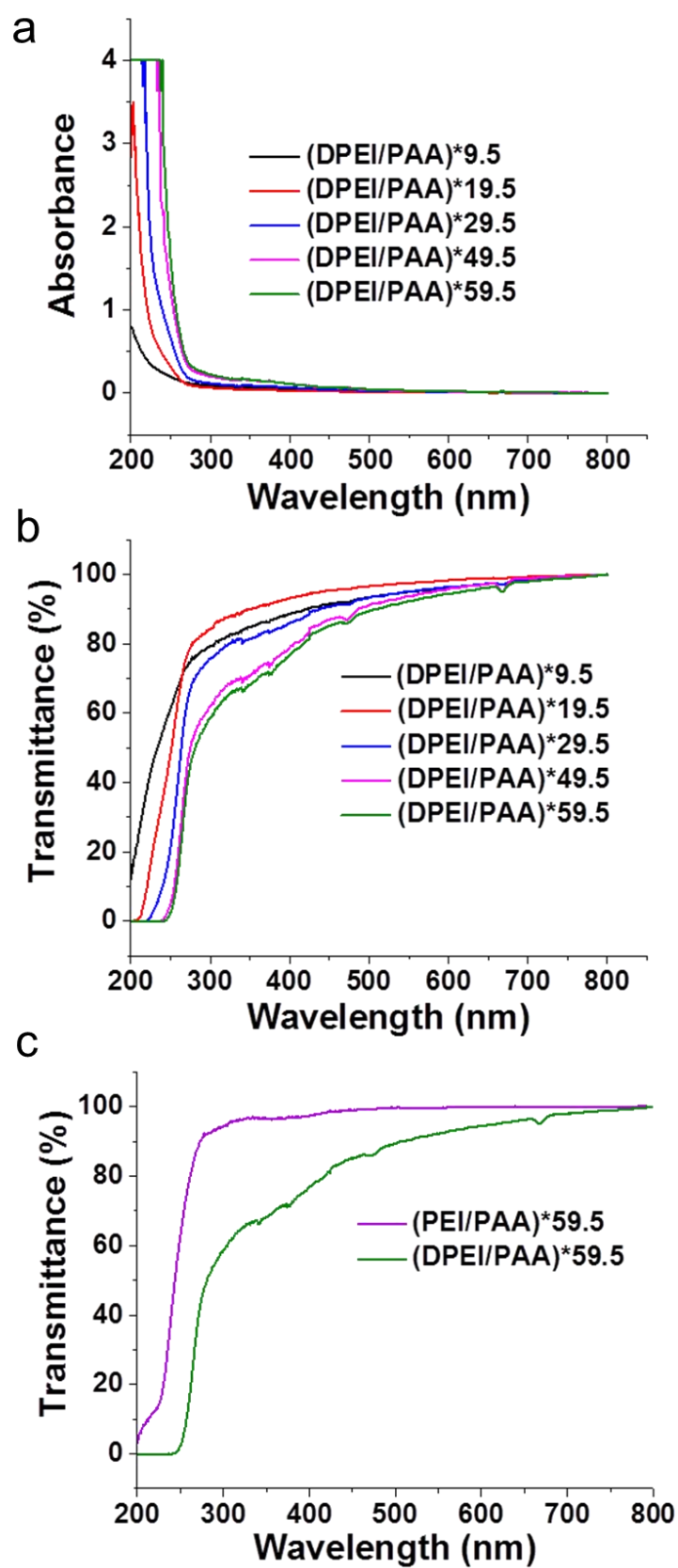


Figure S3. UV-vis absorption (a) and transmission spectra (b) of (DPEI/PAA)*n, the transmission spectra of (DPEI/PAA)*59.5 and (PEI/PAA)*59.5 (c).

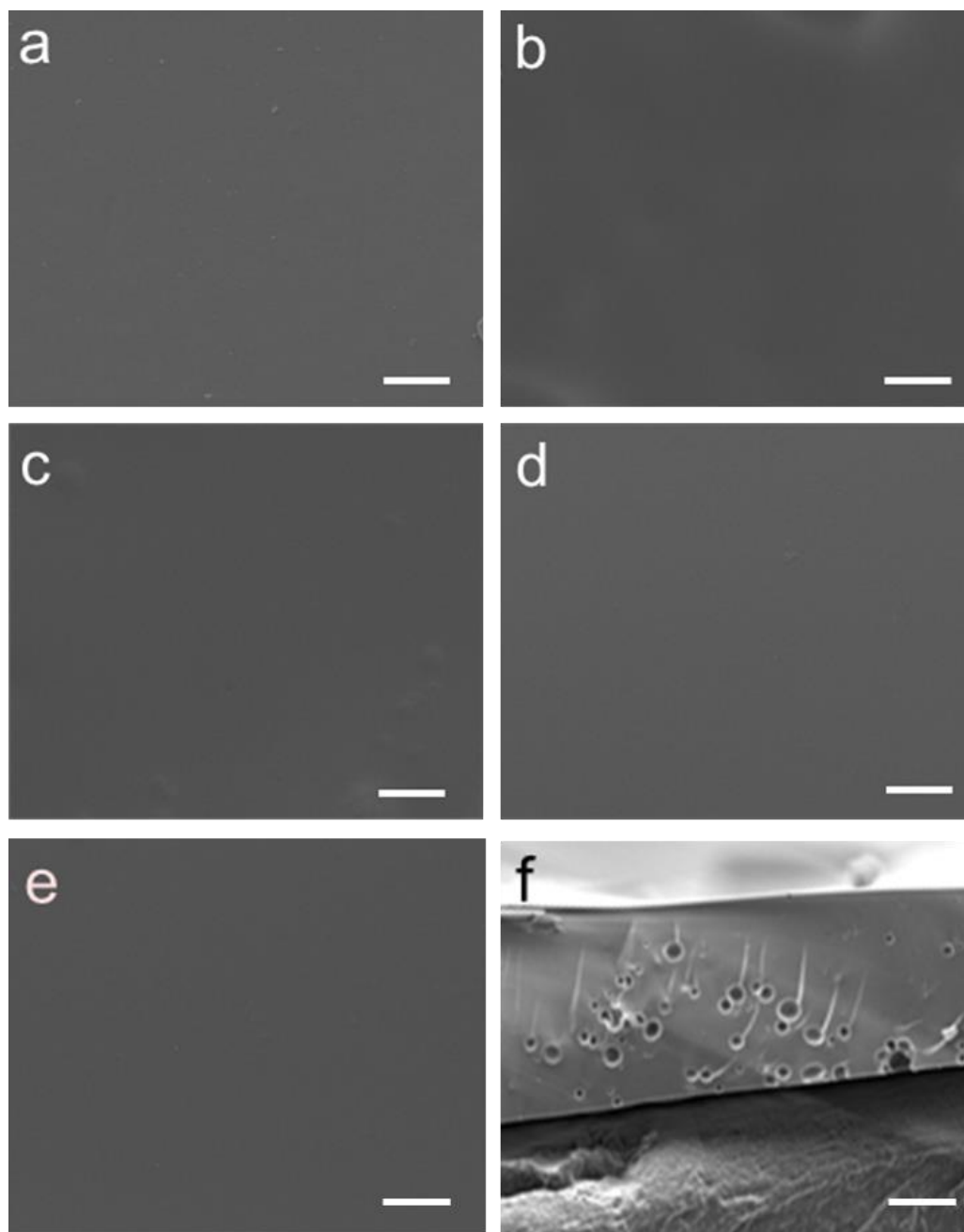


Figure S4. Surface topography of blank silicone (**a**), (DPEI/PAA)*59.5 (**b**), (DPEI/PAA)*60 (**c**), (PEI/PAA)*59.5 (**d**), and (PEI/PAA)*60 coatings (**e**), and the thickness of (DPEI/PAA)*59.5 coating (**f**). The scale bar is 10 μm .

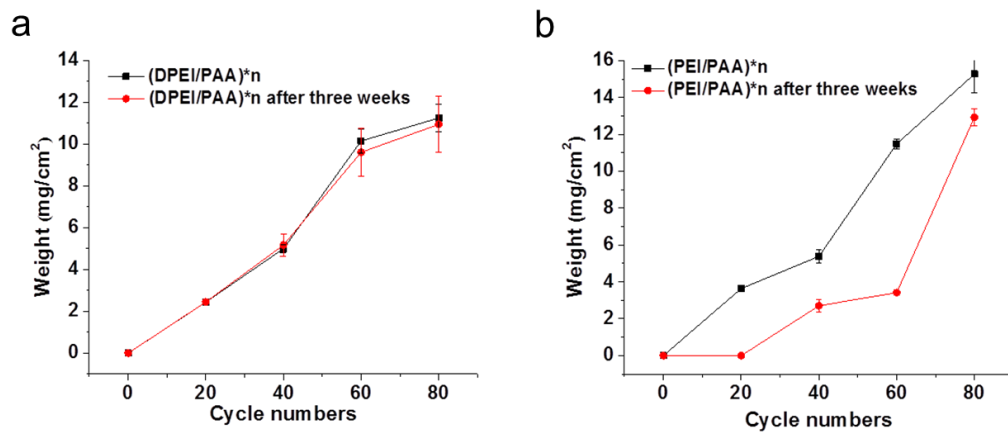


Figure S5. The weight changes of LbL assembled coatings with increasing cycle numbers of (DPEI/PAA)*n coating **(a)** and (PEI/PAA)*n coating **(b)**.