

## Supporting Information

### Facile Fabrication of Ultrathin Antibacterial Hydrogel Films via Layer-by-Layer

#### “Click” Chemistry

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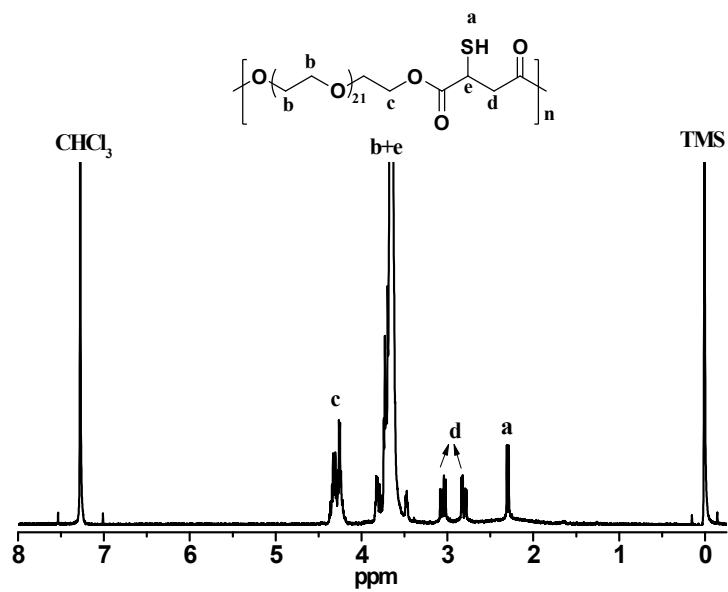
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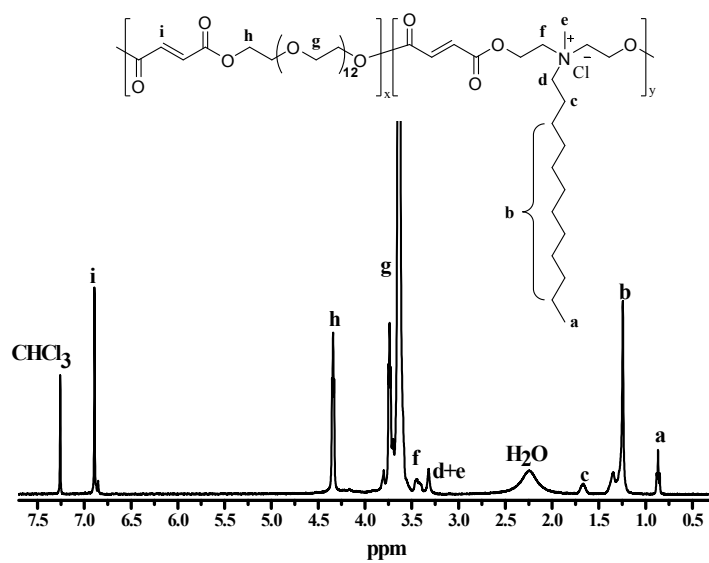
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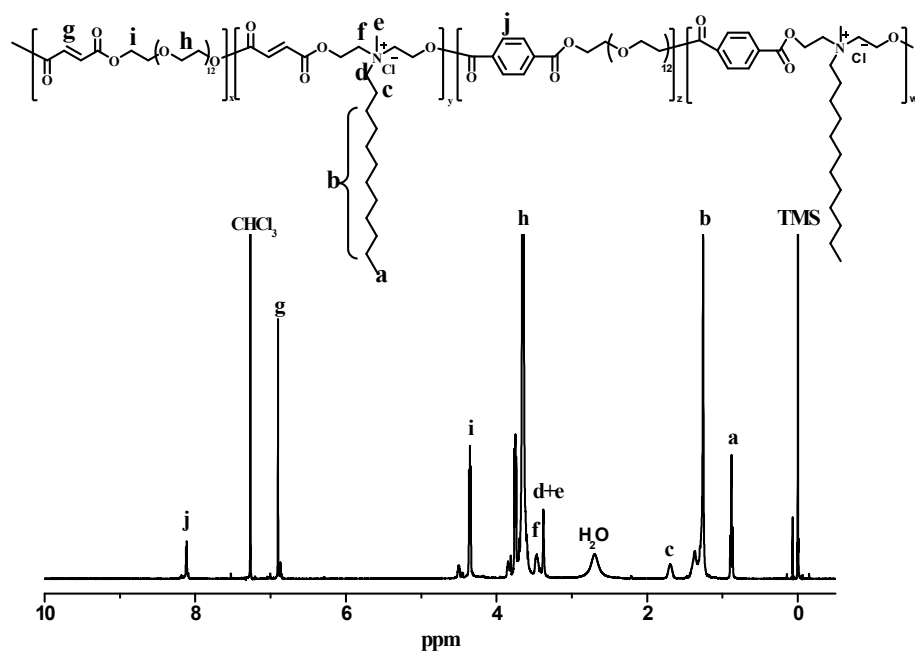
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**Fig. S1** <sup>1</sup>H NMR spectrum of POEGMS.



**Fig. S2** <sup>1</sup>H NMR spectrum of POEGDMAM.



**Fig. S3** <sup>1</sup>H NMR spectrum of POEGDMAMT.

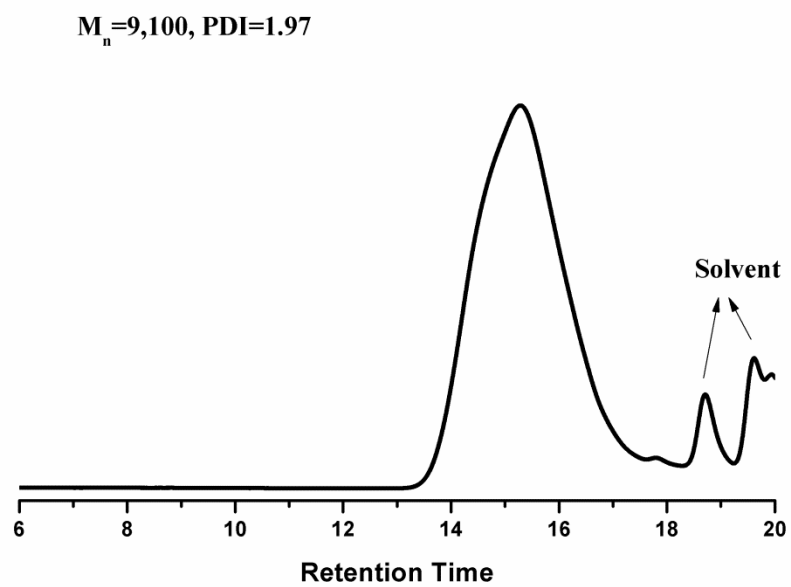


Fig. S4 GPC trace of POEGMS.

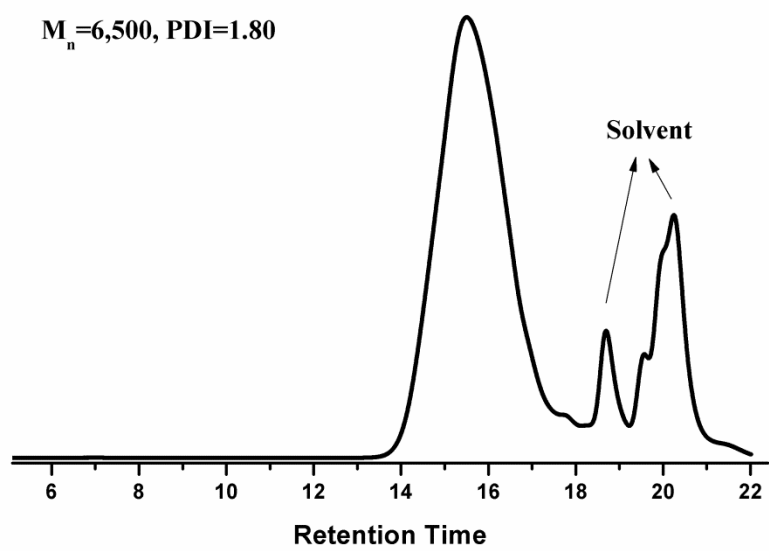


Fig. S5 GPC trace of POEGDMAM.