

## Electronic Supplementary Information

### Surface self-concentrating and contact-killing antibacterial coating with anti-fog capacity

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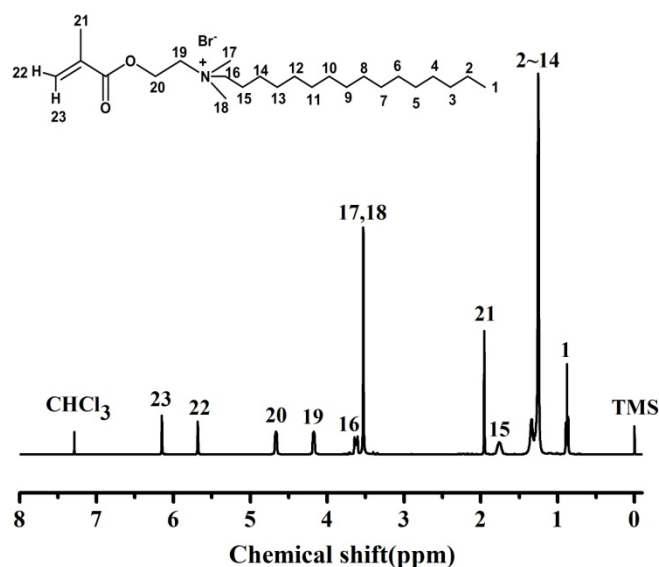


Figure S1. The <sup>1</sup>H-NMR spectrum of DMEAMA-HB(QAC).

Attenuated total reflectance Fourier transform infrared (ATR-FTIR): 2845–2920  
cm<sup>-1</sup> (saturated C–H stretching vibration), 1720.5 cm<sup>-1</sup> (C=O stretching vibration),

1634.8  $\text{cm}^{-1}$  (C=C stretching vibration), 720.9  $\text{cm}^{-1}$  ( $\text{CH}_2$ )<sub>n</sub> > 4 rocking vibration.

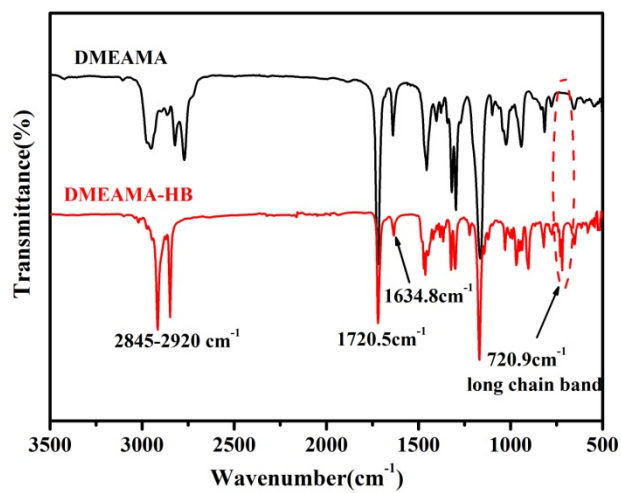


Figure S2. The FTIR spectra of DMEA and DMEAMA-HB(QAC)