Supporting Information

Preparation and Antibacterial Study of Waterborne Polyurethane Modified with Lysine and Quaternary Ammonium Salt

Mengting Xu[a], Yu Wang[b,] *, Jichao Shi[a], Dandan Wu[a], Lin Lin[c], Runping Jia[a,] *, Yinghao Zhai[d], Hongxiang Qian[d]

[a] *School of Materials Science and Engineering, Shanghai Institute of Technology, Shanghai 201418, China.*

[b] *Yuang Water-based New Material Technology Co., LTD, Shanghai 201306, China.*

[c] *School of Chemical and Environmental Engineering, Shanghai Institute of Technology, Shanghai 201418, China.*

[d] *Research and Development Department, Shanghai Huide Science & Technology Co., Ltd, Shanghai 201512, China.*

* Corresponding author.

* *E-mail:* jiarp@sit.edu.cn (R. Jia); yuking@unipolymer.com (Y. Wang)

Table S1 The inhibition zones of the WPU, WPU-K, WKPU0 and WKPU against *E. coli* and *S. aureus*.

Samples	Pristine (mm)		Mean (mm)	
	E. coli	*S. aureus*	*E. coli*	*S. aureus*
WPU	0	0	0	0
WPU-K	8.1	9.2	8.4 ± 0.3	9.7 ± 0.4
	8.5	9.9		
	8.6	10		
WKPU0	8.1	8.9	8.3 ± 0.3	9.5 ± 0.5
	8.2	9.6		
	8.6	10.0		
WKPU1	11.5	13.4	12.0 ± 0.4	12.7 ± 0.6
	12.3	12.2		
	11.8	12.5		
WKPU3	15.3	15.3	14.5 ± 0.7	14.8 ± 0.5
	14.2	14.2		
	14.0	14.9		
WKPU5	16.9	18.0	17.4 ± 0.5	18.2 ± 0.4
	17.3	17.9		
	17.9	18.7		
WKPU7	19.1	19.8	19.2 ± 0.5	20.0 ± 0.2
	18.8	20.0		
	19.7	20.2		
WKPU9	16.4	16.5	16.5 ± 0.3	16.8 ± 0.4
	16.8	16.6		
	16.2	17.3		