Electronic Supplementary Material (ESI) for RSC Advances.

Synthesis and Antimicrobial Activities of Chitosan/Polypropylene Carbonate-based Nanoparticles

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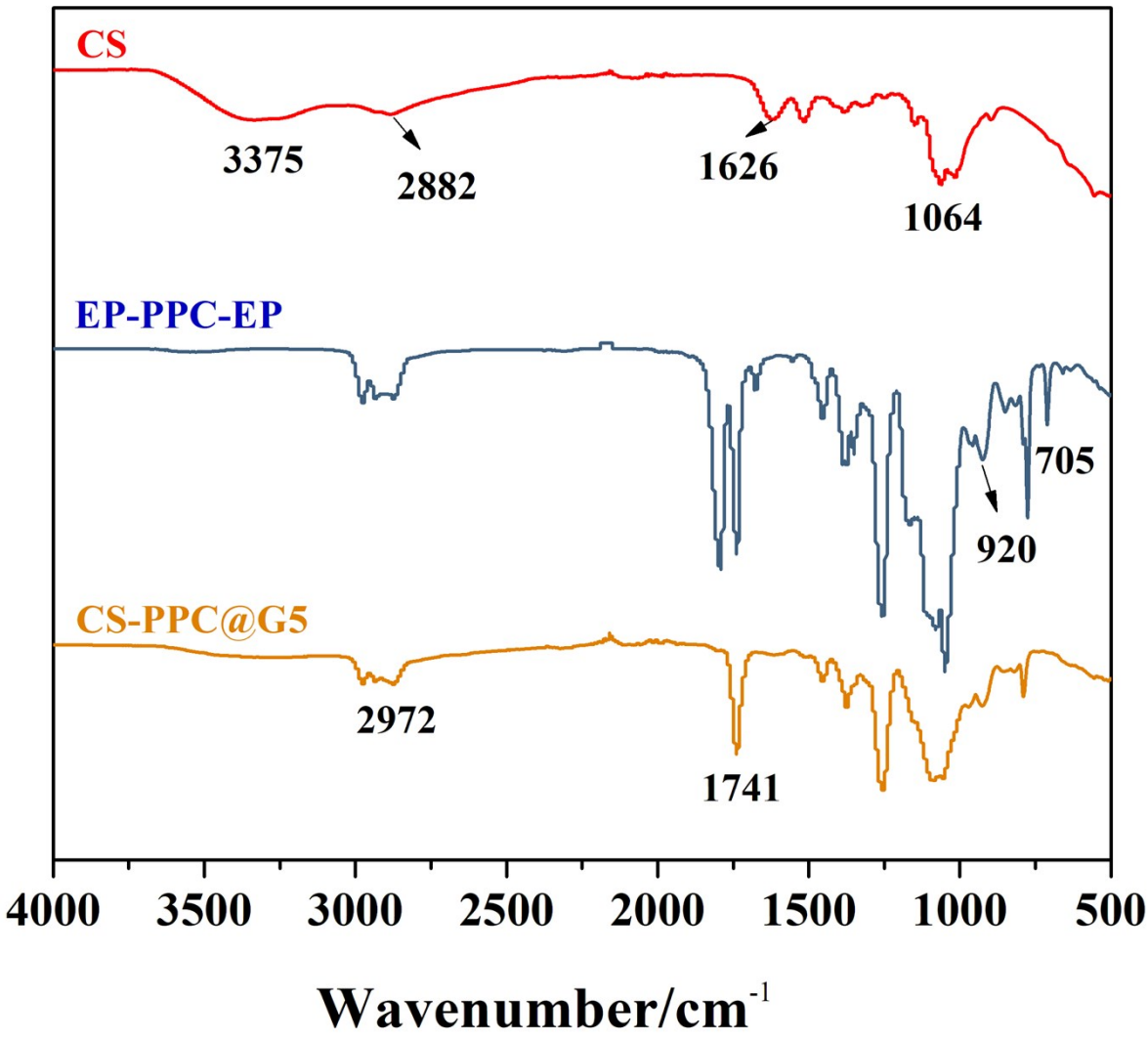

Fig. S1. FTIR Spectra of CS, EP-PPC-EP and G5

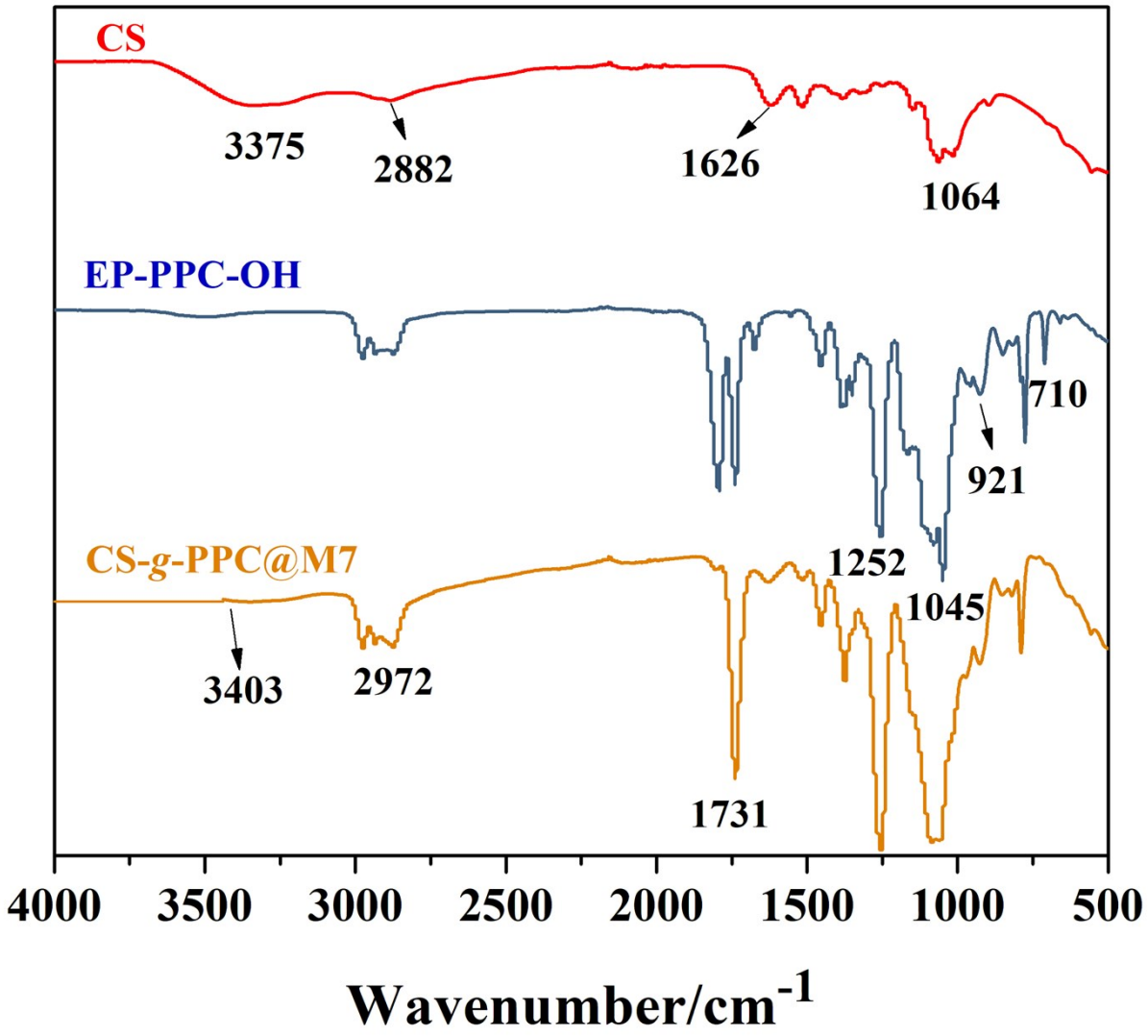

Fig. S2 FTIR of CS, EP-PPC-OH and M7

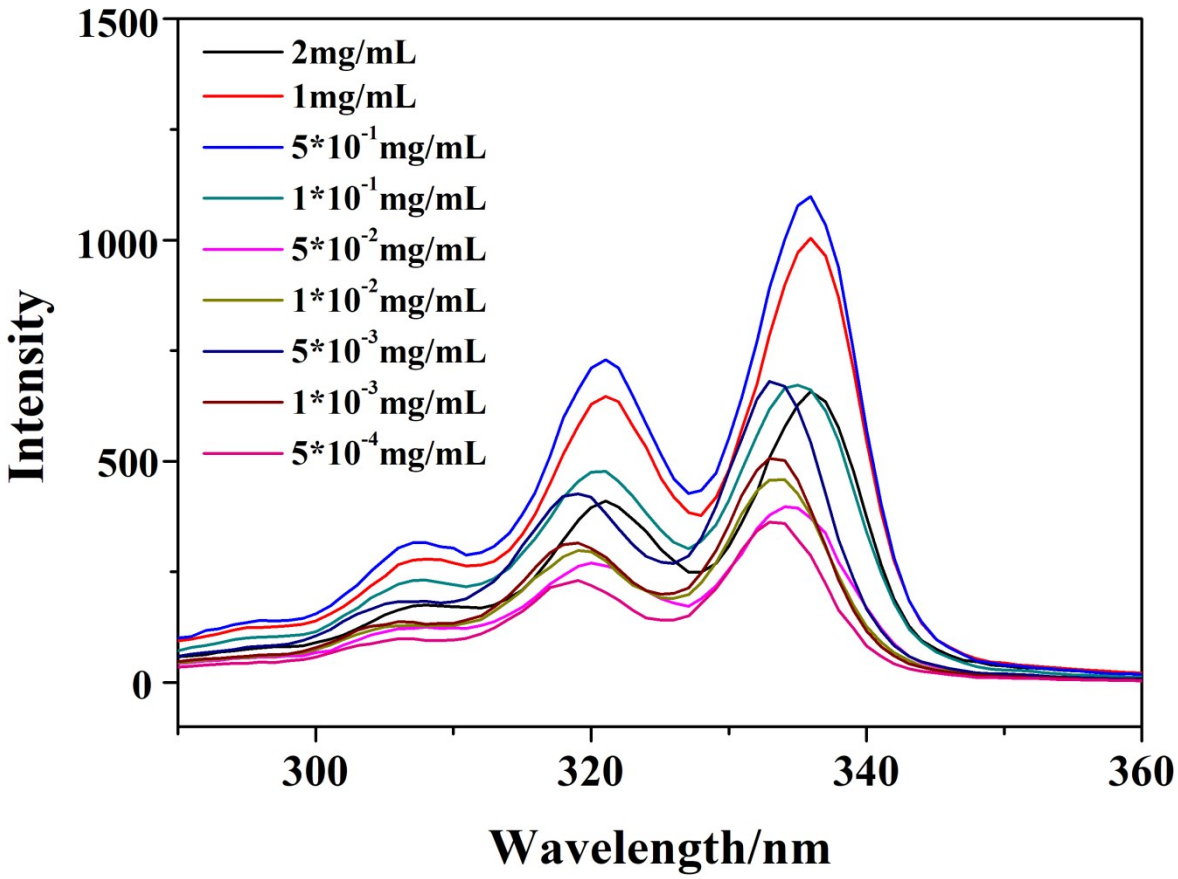

Fig. S3 PL of CS-*g*-PPC ([-EP]/[-NH_2] = 0.1) in different concentration [Pyrene]= 6.1×10^{-7} M

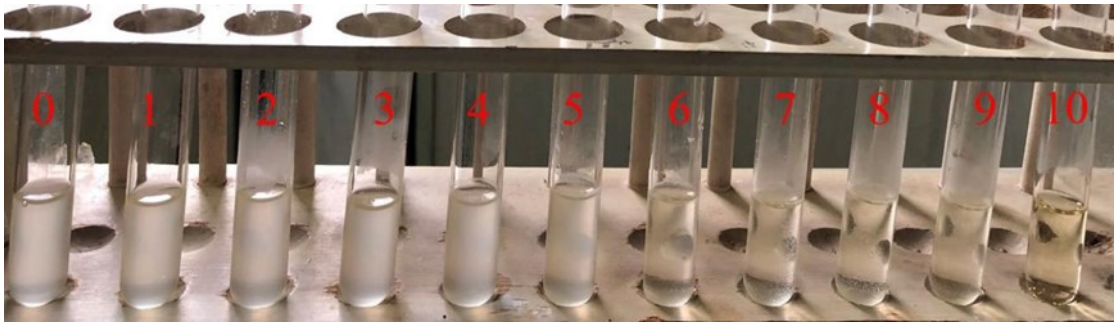

Fig. S4 Photograph of the MIC result of sample M5 ([-EP][/[-NH_2] =1] against *S.aureus* by tube dilution (turbidimetric) method： where: tube-0 is positive control, tube-10 is the negative control, tube 1~10 are samples of concentration 4 μg/mL, 8 μg/mL, 16 μg/mL, 32 μg/mL, 64 μg/mL, 128 μg/mL, 256 μg/mL, 512 μg/mL, 1024 μg/mL and 2048μg/mL, respectively.

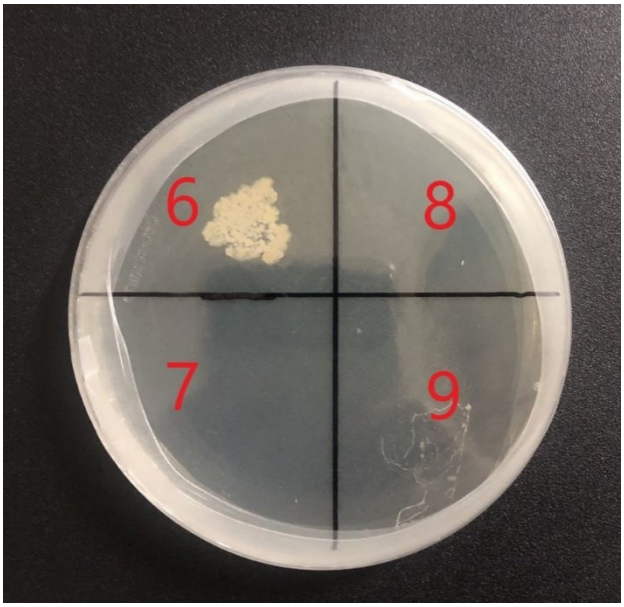

Fig. S5 Photograph of the MBC result of sample M5 ([-EP][/[-NH_2] =1] against *S.aureus*. Where 6~9 are sub-culture on agar plates with *S.aureus* treated with polymer samples of concentration 128 μg/mL, 256 μg/mL, 512 μg/mL and 1024 μg/mL, respectively.