Supporting Information

Facile Construction of Functionalized GO Nanocomposites with Enhanced Antibacterial Activity

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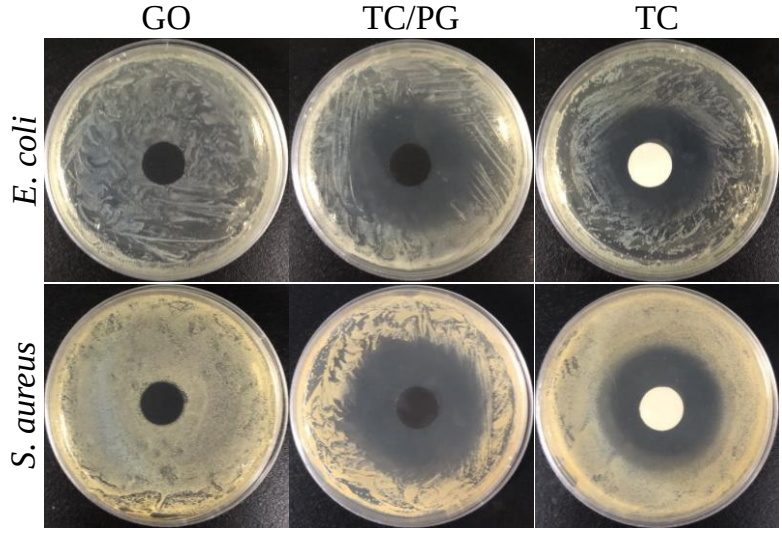

Figure S1. Inhibition zone pictures of GO, TC/PG and TC against *E. coli* and *S. aureus*.

Table S1. Diameters (mm) of Inhibition zone of GO, TC/PG and TC against *E. coli* and *S. aureus*.

	GO	TC/PG	TC
E. coli	-	29.5 ± 0.7	26.5 ± 0.7
S. aureus	-	32.5 ± 0.7	28.5 ± 0.7

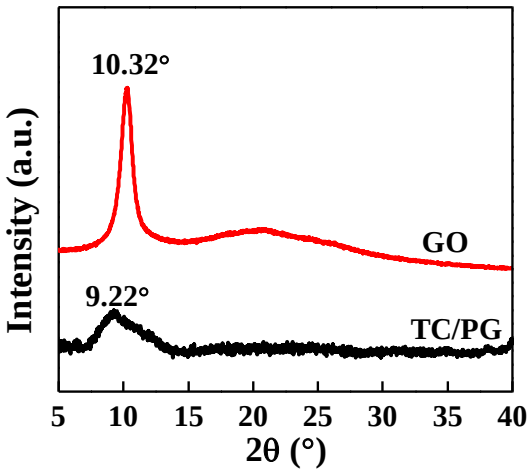

Figure S2. XRD spectra of GO and TC/PG nanocomposites.

The XRD patterns of GO and TC/PG nanocomposites are listed in Figure S2. The characteristic diffraction peak of GO was at 10.32° and the interlayer distance was calculated to be 0.88 nm according to the Bragg equation. For TC/PG nanocomposite, the interlayer distance changed to 0.98 nm because the diffraction peak shifted to 9.22°. The increase in the interlayer distance confirmed the successful loading of TC onto PG nanosheets.