

Figure 1S. Images of bacterial cellulose with and without HMP, right and left film on each picture respectively.

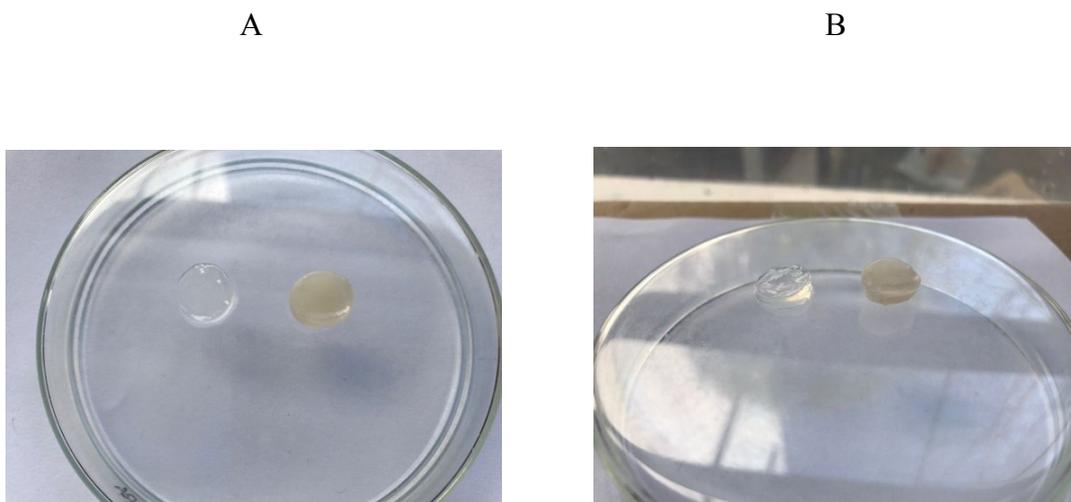


Figure 2S. Surface analysis of SEM images for BC (left) and BC-HMP (right) films by histograms of grey distribution (top) and plot profile of the fibers (bottom).

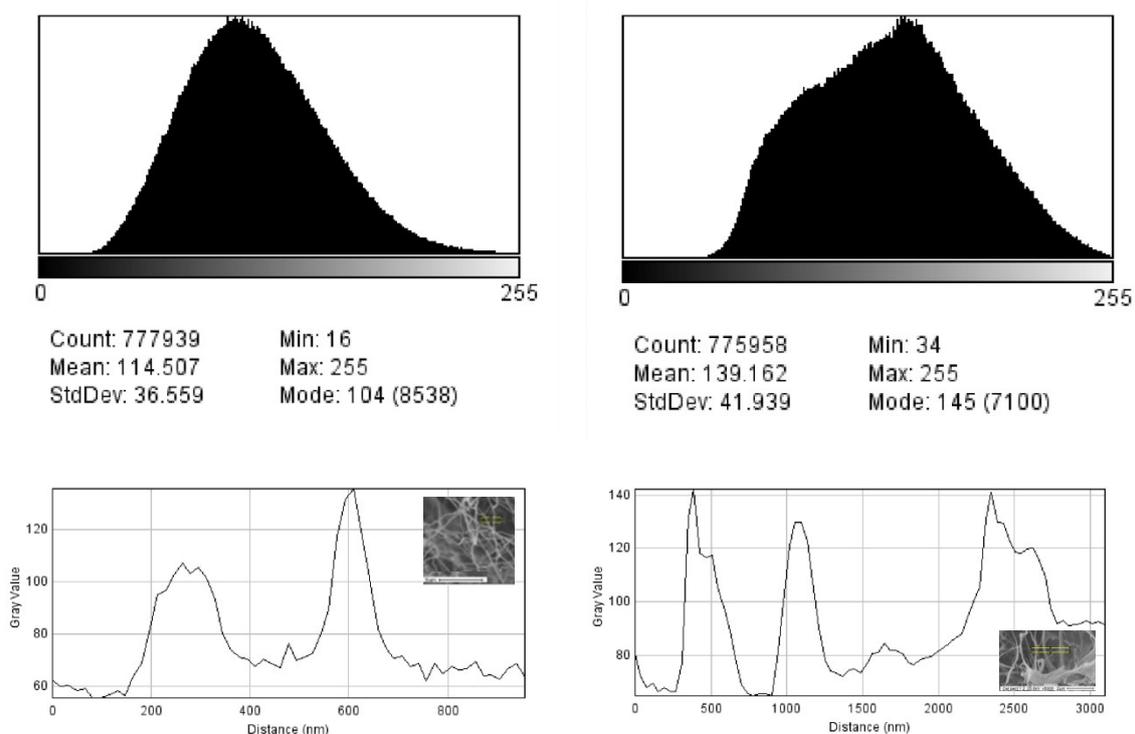


Figure 3S. Weight loss kinetic of BC and BC-HMP films incubated at 37°C. All measurements were performed in triplicate showing a deviation lower than 10%.

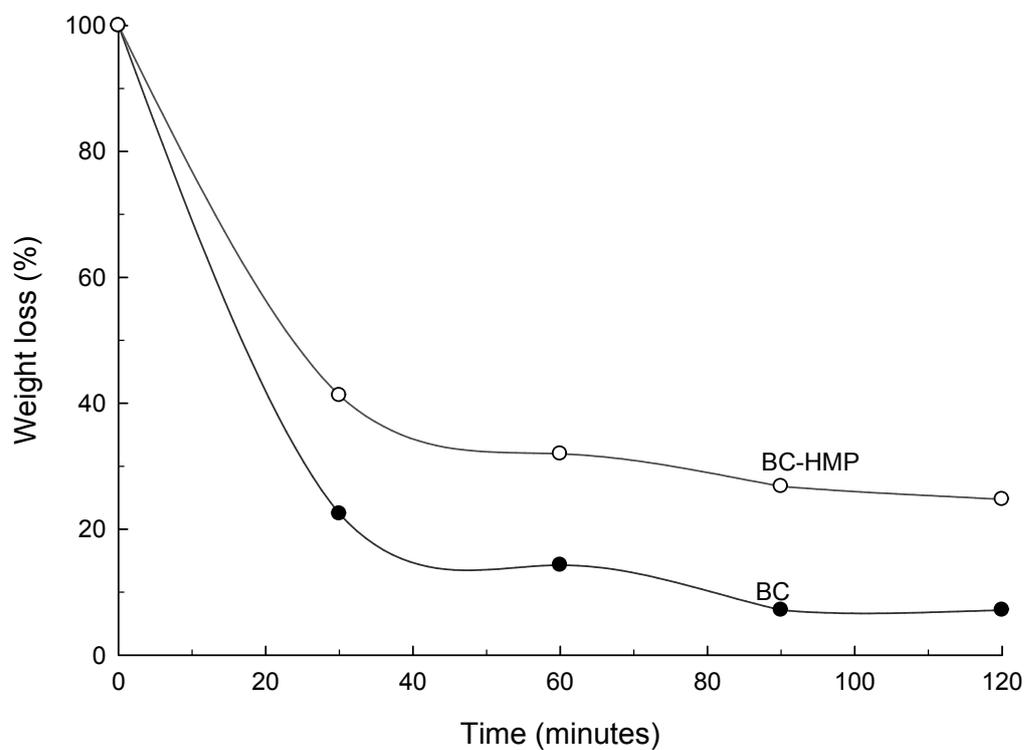


Figure 4S. HSA fluorescence quenching by interaction with a range of Levo concentrations.

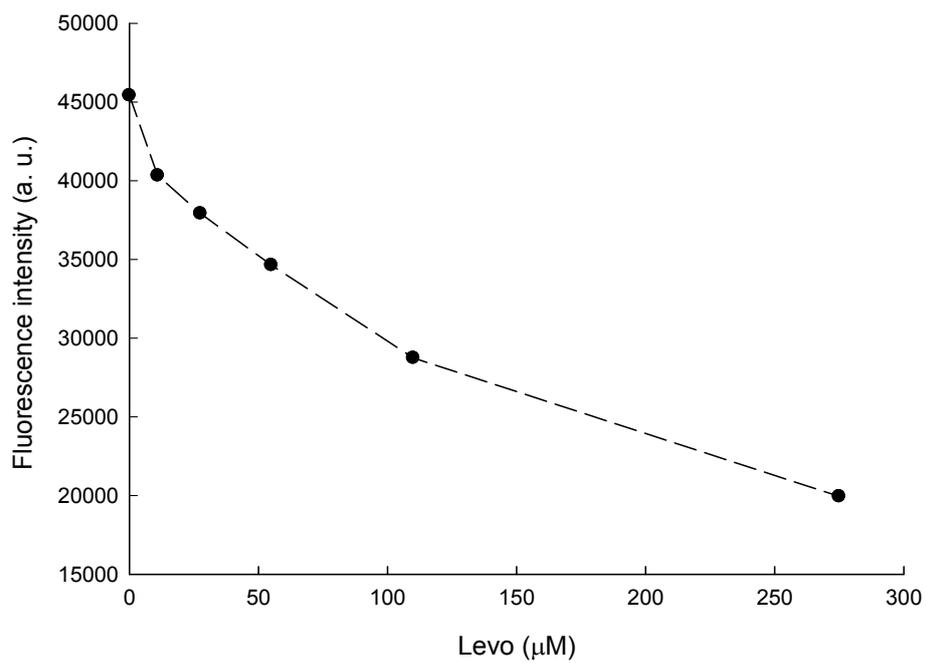


Figure 5S. XRD spectra for BC, HMP and BC-HMP.

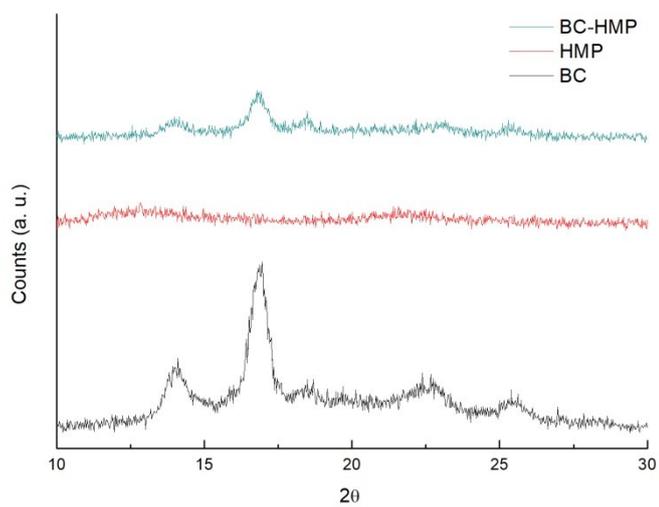


Figure 6S. Antimicrobial activity against *S. aureus* of unloaded BC-HMP (left) and BC (right) films.

