

Supplementary Materials

Eradication of Mature Bacterial Biofilms with Concurrent Improvement in Chronic Wound Healing Using Silver Nanoparticle Hydrogel Treatment

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Table S1: Pluronic F-127 hydrogel formulation composition

Ingredients	% W/W
Pluronic F- 127	19
Propylene glycol	10
Silver nanoparticles solution	200 µg/g
MilliQ water	71

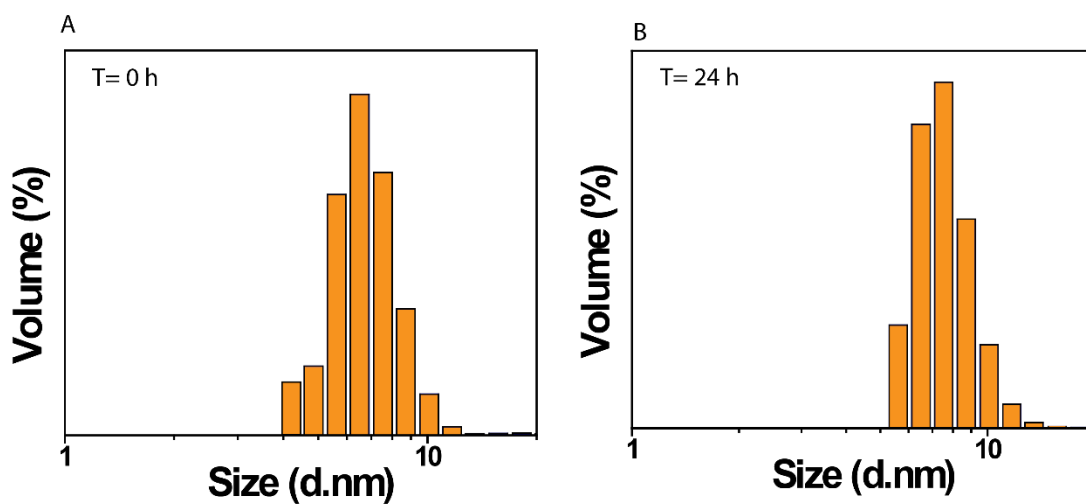


Figure S1. Dynamic light scattering (DLS) size distribution of AgNP hydrogel is measured as volume (%). (a,b) Mean hydrodynamic diameter of AgNP hydrogel in DMEM (10% FCS) at t= 0. and t=24 at 37°C storage.

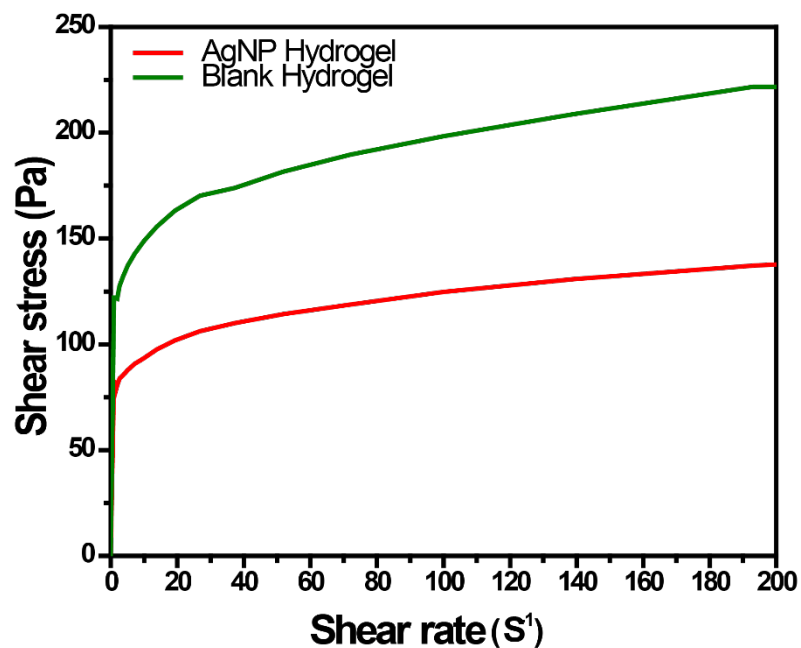


Figure S2. Measurement of shear stress in response to shear rate of pluronic f-127 hydrogel at ambient temperature.

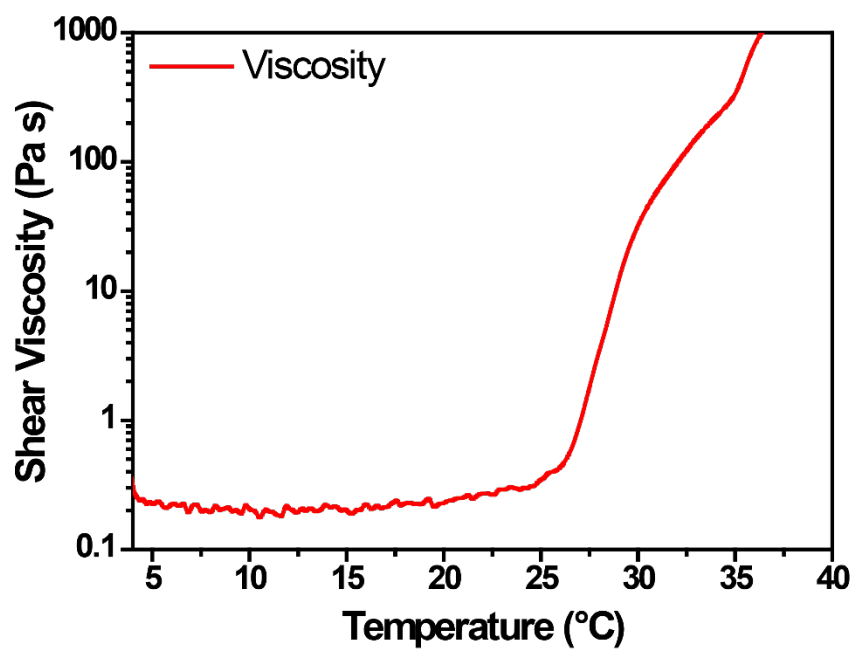


Figure S3. Measurement of shear stress in response to shear rate of pluronic f-127 hydrogel at ambient temperature.

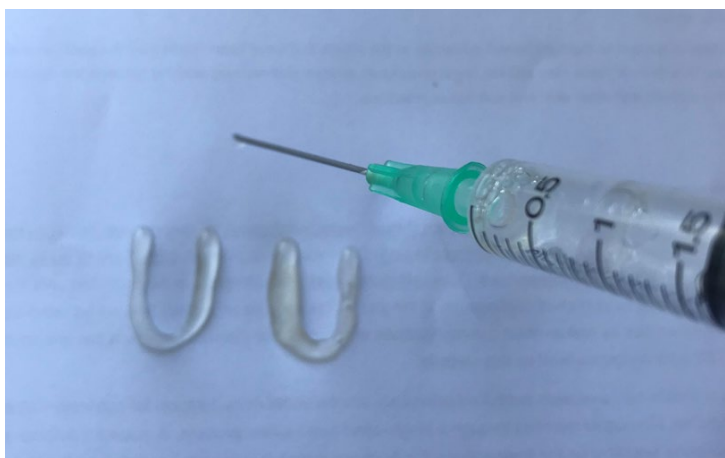


Figure S4. Photograph of AgNP hydrogel delivered using a syringe demonstrating ease of application and excellent hydrogel viscoelastic properties.

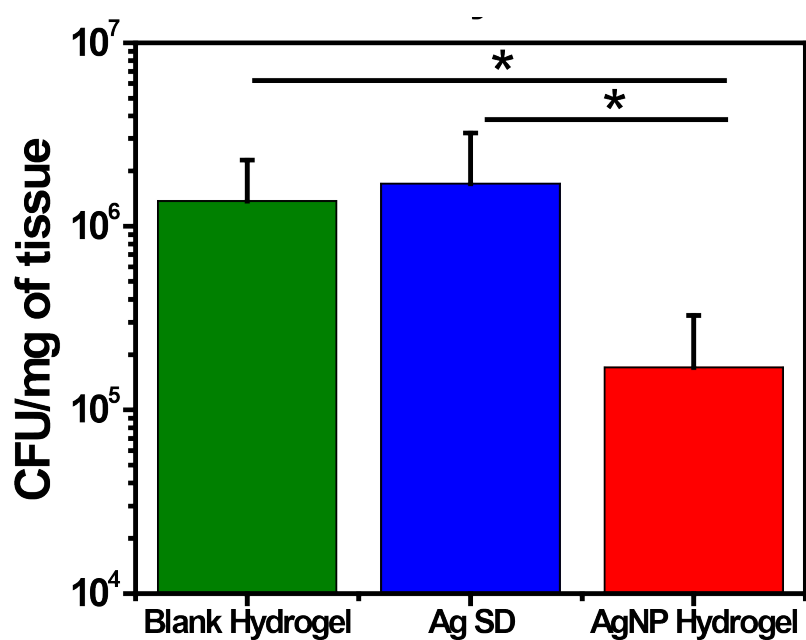


Figure S5. CFU counts of residual bacteria within wound tissue after 10 days of treatment. Data are shown as mean \pm SD and the * denotes significant difference using one-way ANOVA followed by Dunnett's multiple comparison test. *P < 0.05, n=8.