

# Naturally derived hydrogel with antioxidant, angiogenesis and photothermal effect to accelerate infected diabetic wound healing and reduce scar formation

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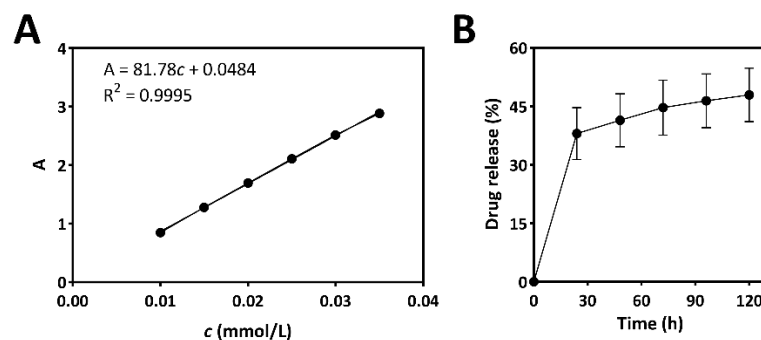


Figure S1. A: Standard curve of PHL; B: Release of PHL *in vitro* (Mean  $\pm$  SD,  $n = 3$ )

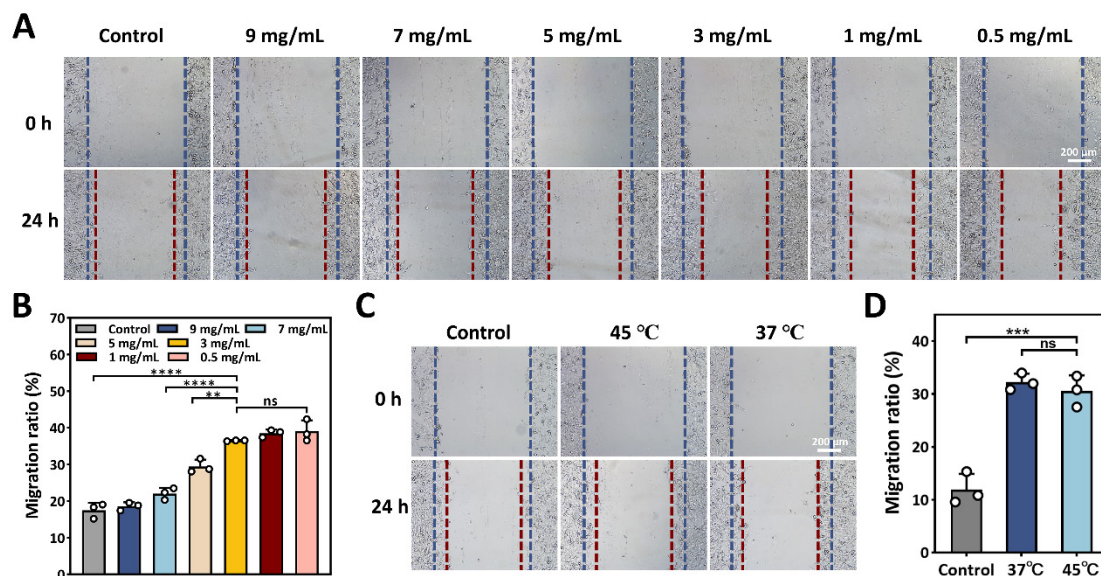
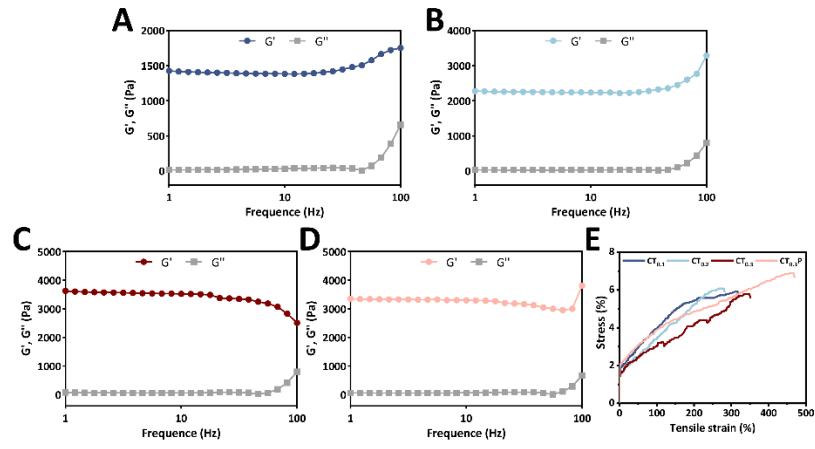


Figure S2. A: Images of cell migration promoted by different concentrations of PHL; B: Statistical graph of cell migration rate of different concentrations of PHL; C: Images of cell migration promoted by 3 mg/mL PHL after treatments at 45°C and 37°C, respectively; D: Statistical graph of cell migration rate of different treatments

Statistical graph of cell migration rate of 3 mg/mL PHL at different temperatures (\*\* $P < 0.01$ ,  
 \*\*\* $P < 0.001$ , \*\*\*\* $P < 0.0001$ , Mean  $\pm$  SD, n = 3)



**Figure S3.** Rheological test results of A) CT<sub>0.1</sub>, B) CT<sub>0.2</sub>, C) CT<sub>0.3</sub>, D) CT<sub>0.3</sub>P hydrogels; E Tensile stress-strain test results of each group of hydrogels