

Supporting Information

Facile preparation of thermosensitive and antibiofouling physically crosslinked hydrogel/powder for wound healing

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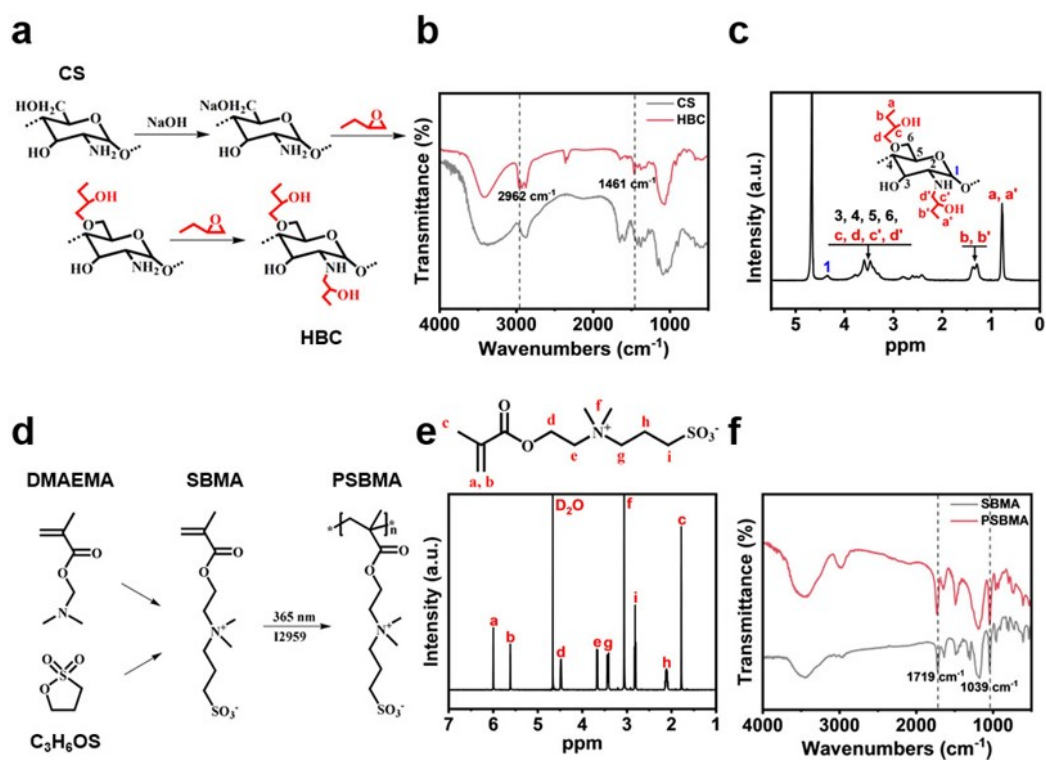


Fig. S1 (a) Diagram of synthesis of HBC. (b) FT-IR spectra of CS and HBC. (c) ¹H-NMR spectra of CS and HBC. (d) Diagram of synthesis of PSBMA. (e) ¹H-NMR spectra of SBMA. (f) FT-IR spectra of SBMA and PSBMA

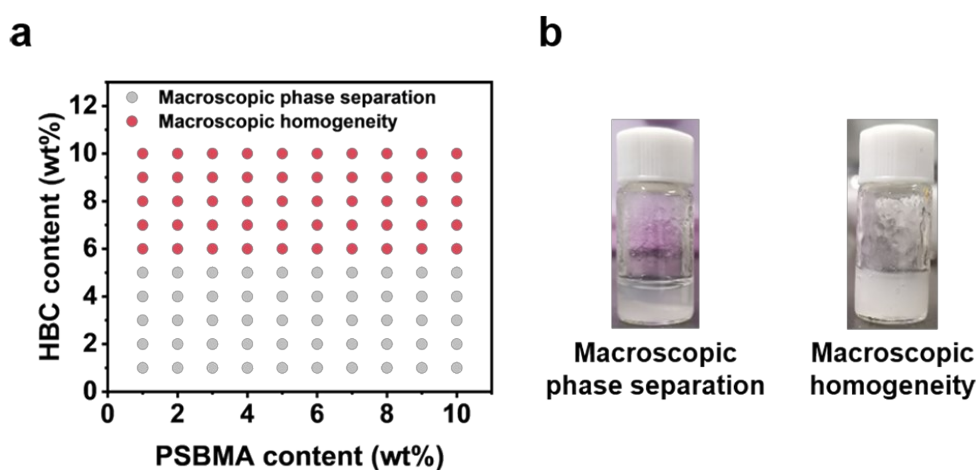


Fig. S2 (a) Effects of HBC and PSBMA concentrations on the formation of dual networks. (b) Macroscopic phase separation and macroscopic homogeneity of optical photographs.

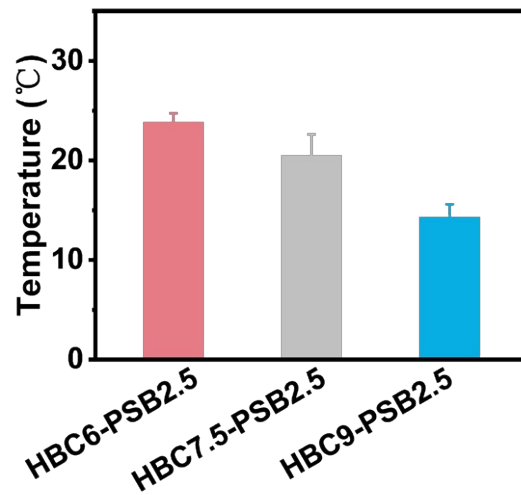


Fig. S3 Effect of HBC concentration on the formation of HBC_x-PSB_y composite hydrogels (where x and y represent the contents of HBC and PSBMA in the hydrogel, respectively).

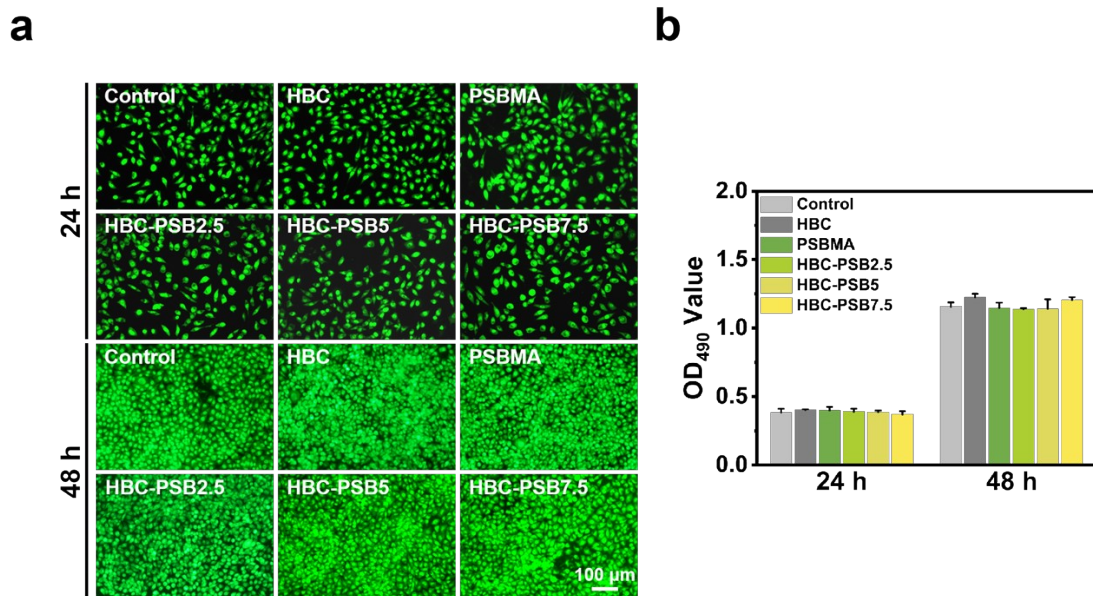


Fig. S4 (a) Acridine orange/propidium iodide (AO/PI) staining of L929 cells cultured in the medium containing HBC-PSB composite. (b) The OD value of L929 cells cultured in the medium containing HBC-PSB composite.

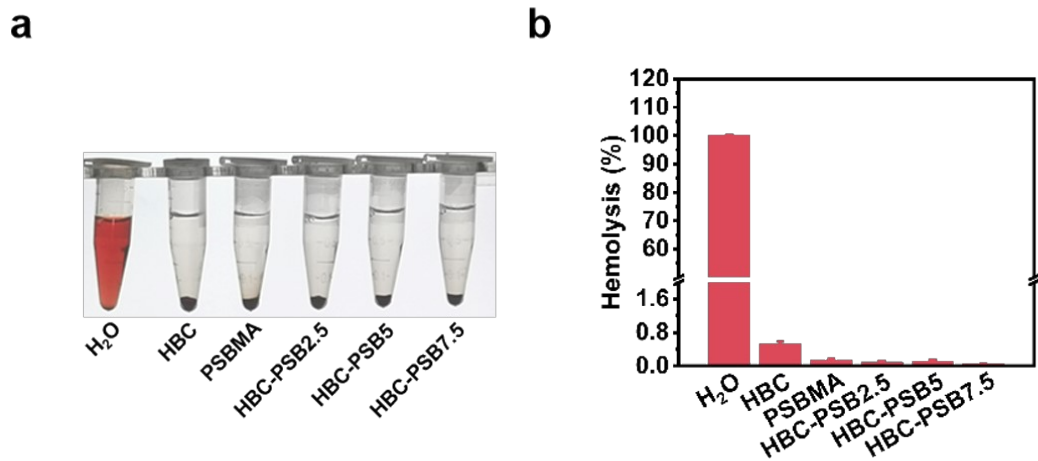


Fig. S5 Optical photographs (a) and quantitative statistics (b) of hemolysis of hydrogels in different groups.

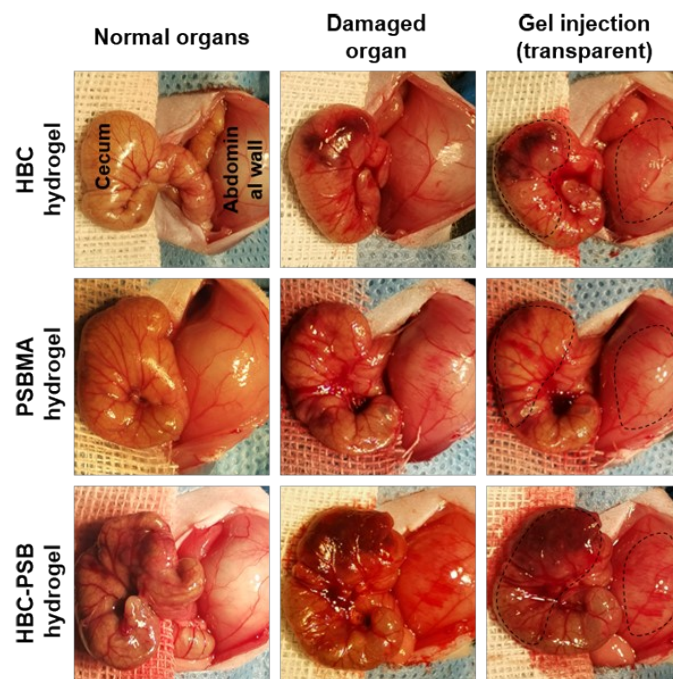


Fig. S6 Typical photos of cecum and abdominal wall in different hydrogel groups after (a) normal, (b) damaged and (c) gel injection (The dotted line was the gel coverage position).

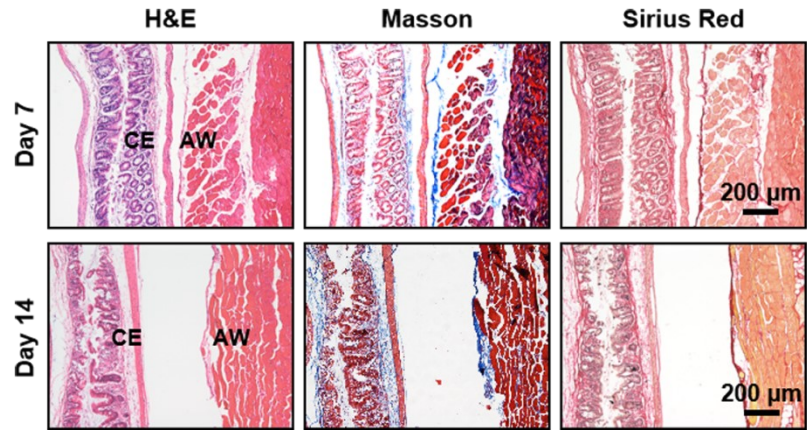


Fig. S7 Representative pictures of histological staining in the normal group.

Table S1 The molecular weight information of HBC and PSBMA.

Sample	M_w (kDa)	M_n (kDa)	Polydispersity
HBC	1874.93	1043.38	1.797
PSBMA	1281.16	1058.55	1.210