Supplementary information: Characterization of PPOR-Alginate copolymer

**Fig. S1** IR spectra of protoporphyrin, alginate and PPOR-alginate copolymer

**Fig. S2** H-NMR spectra of alginate (A) and PPOR-alginate copolymer (B)
**Fig. S3** UV-Vis spectra of calcium alginate (blue) and calcium PPOR-alginate copolymer (red)

**Fig. S4** Rheological analysis of calcium PPOR-alginate hydrogel
Fig. S5 TGA curve of calcium PPOR-alginate hydrogel