

Supplementary information

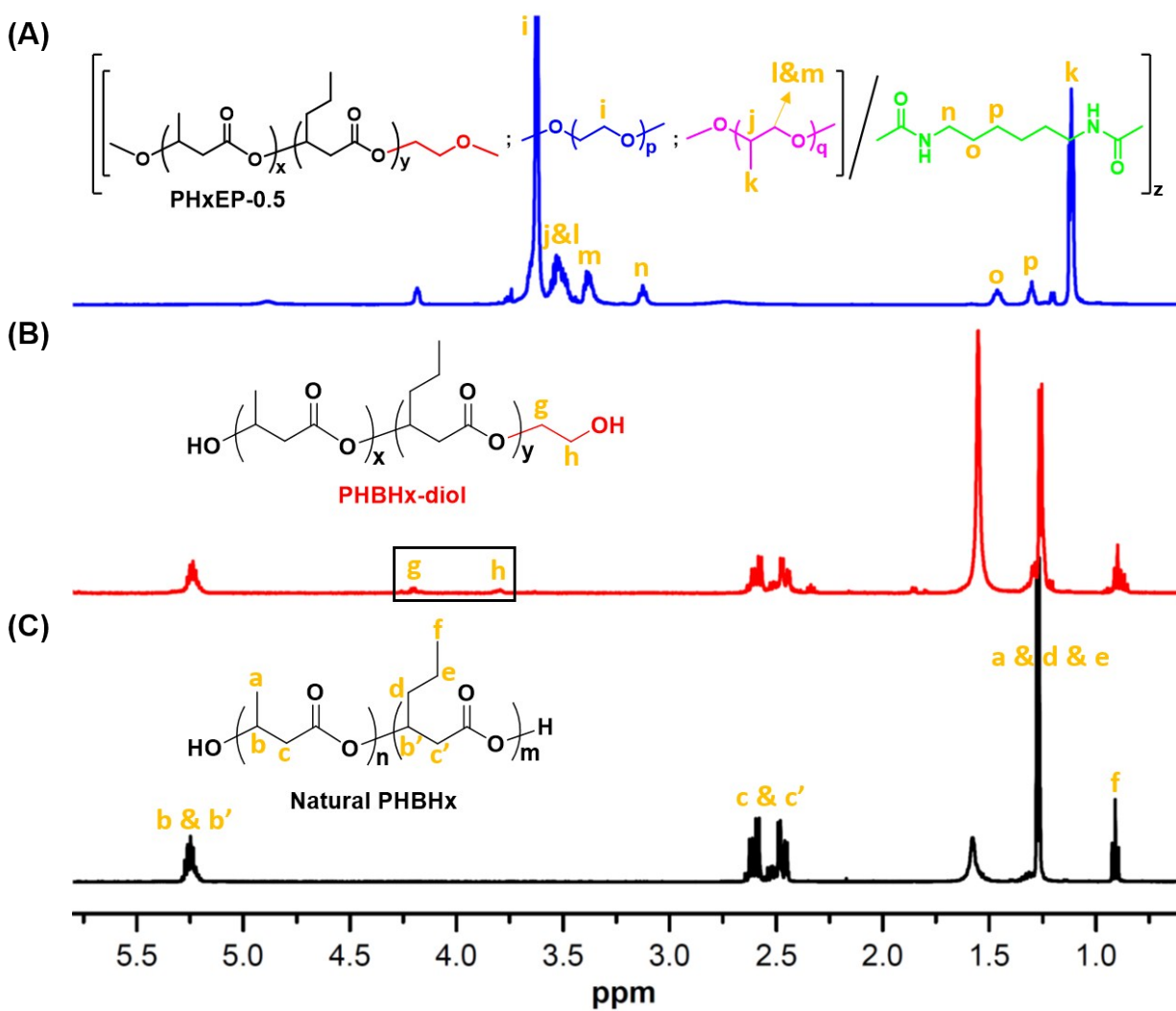


Figure S1. ^1H NMR spectra of PHxEP-0.5 (A), PHBHx-diol (B) and natural PHBHx (C) in CDCl_3 .

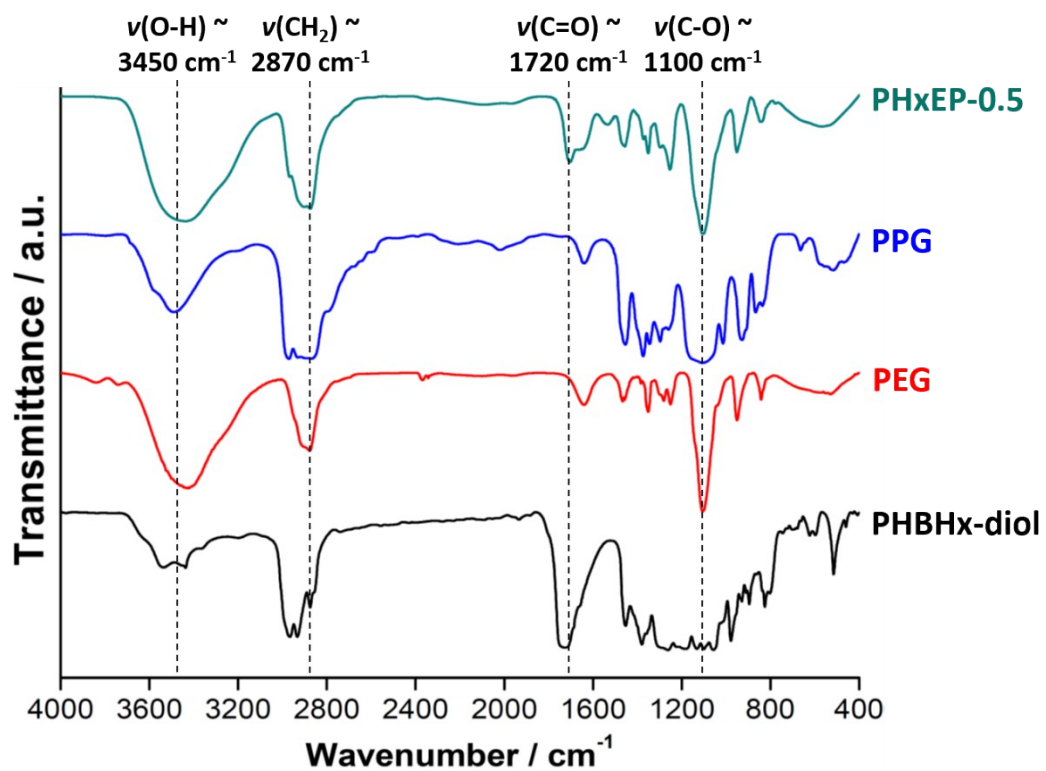


Figure S2. Normalized FT-IR spectra of PHBHp-diols and PHxEP-0.5 copolymer.

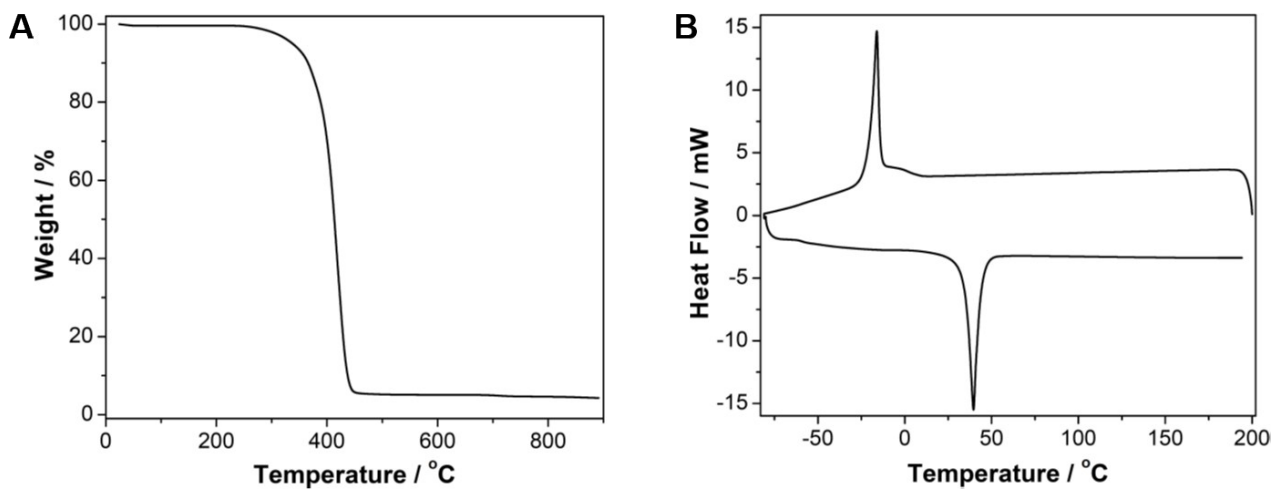


Figure S3. Thermal analysis of the copolymer PHxEP-0.5. A. TGA curve; B. DSC curve.

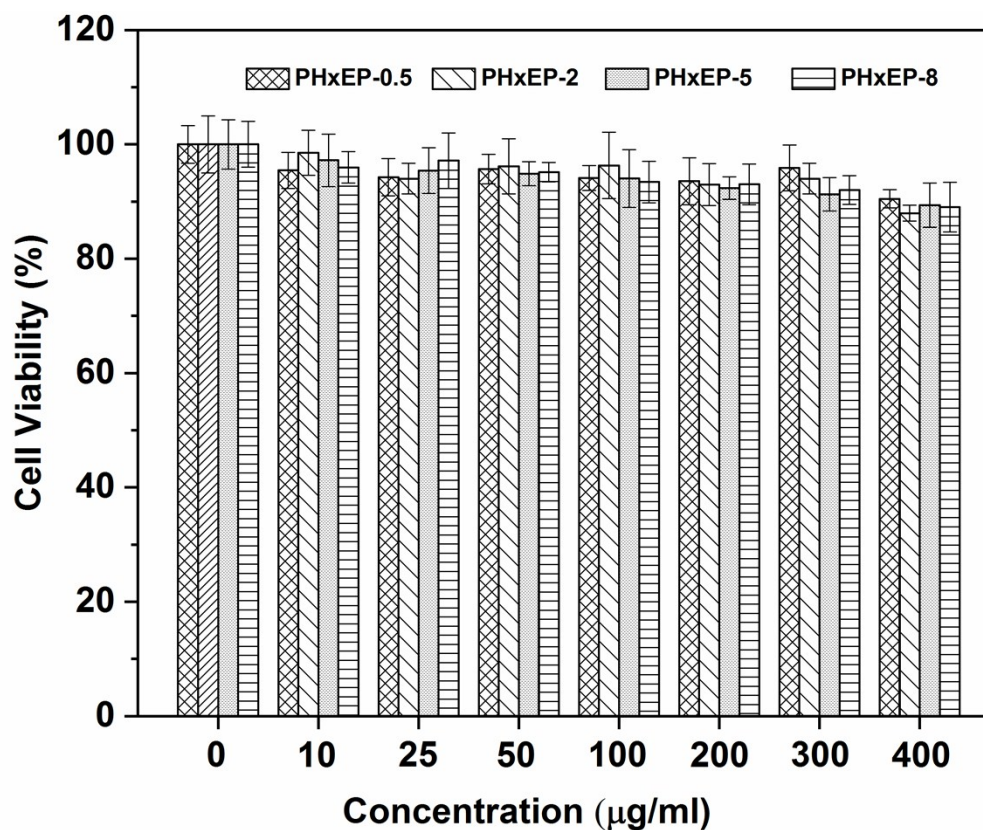


Figure S4. *In vitro* cytotoxicity study of the PHxEP copolymers. The PHxEP copolymers did not show significant cell toxicity against L929 cells, and relative cell viabilities were 90 % or higher.

Supplementary video. Procedure of conducting vitrectomy surgery and injecting PHxEP gel into the rabbit eye.