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Electronic Supplementary Information

Biodegradable and injectable polymer–liposome hydrogel: a promising cell carrier

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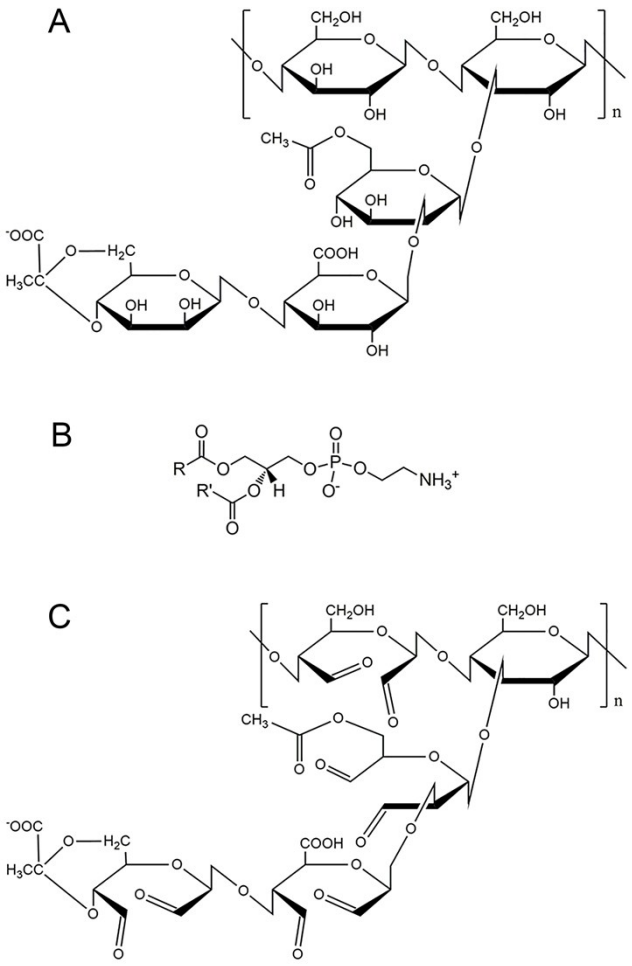

Fig. S1 (A) Chemical formulas of XA (A), PE (B), and ALD-XA(C). R and R' stand for the same or different carbon chains, respectively.

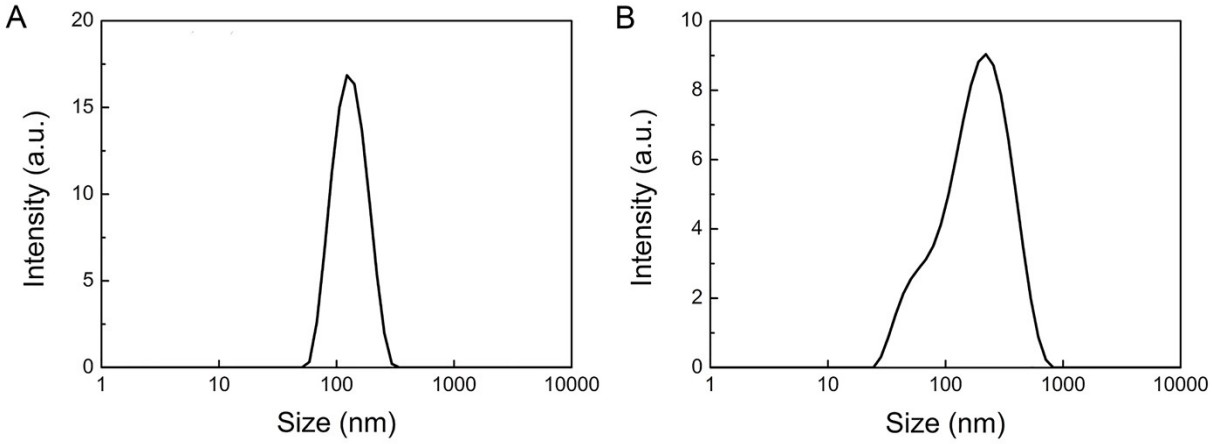

Fig. S2 DLS data for PE liposomes prepared by extrusion (A) and released from the xanthan gum-based liposome hydrogel degraded by papain. The average hydrodynamic diameters of them are ~ 121 nm (A) and ~ 137 nm (B), respectively.

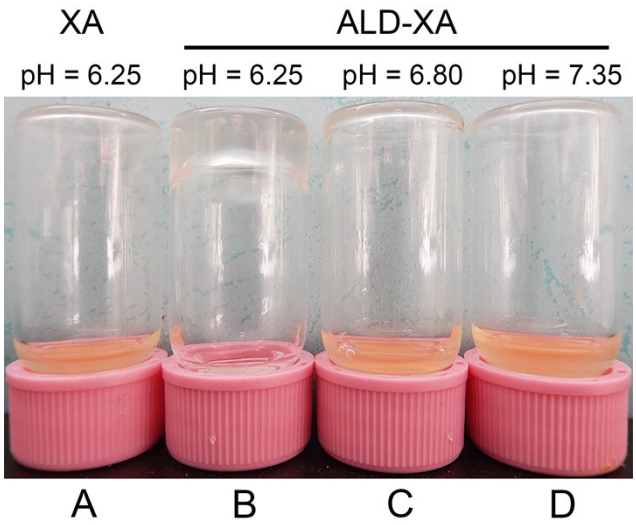

Fig. S3 Gelation experiment of ALD-XA via reaction with carboxylated chitosan confirming the existence of the aldehyde groups in ALD-XA. Mixtures of carboxylated chitosan solution with XA in pH = 6.25 (A) or ALD-XA in different pH conditions of 6.25 (B), 6.80 (C), 7.35(D).