

## **Ethylene glycol oligomer modified-sodium alginate for efficiently improving the drug loading and the tumor therapeutic effect**

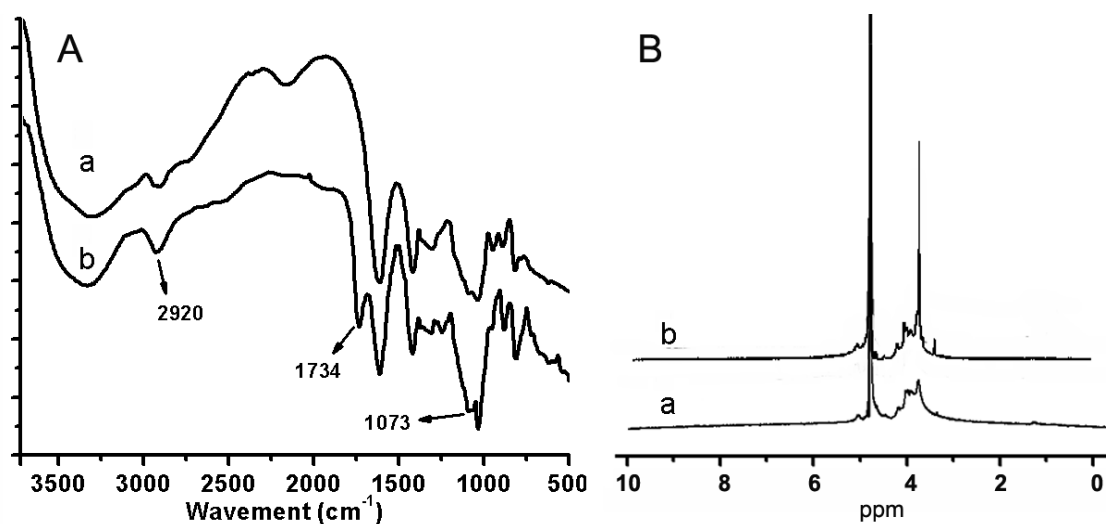
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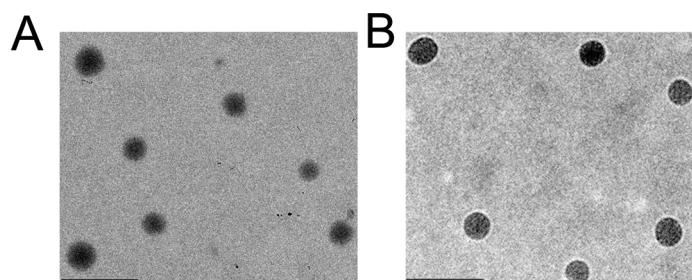
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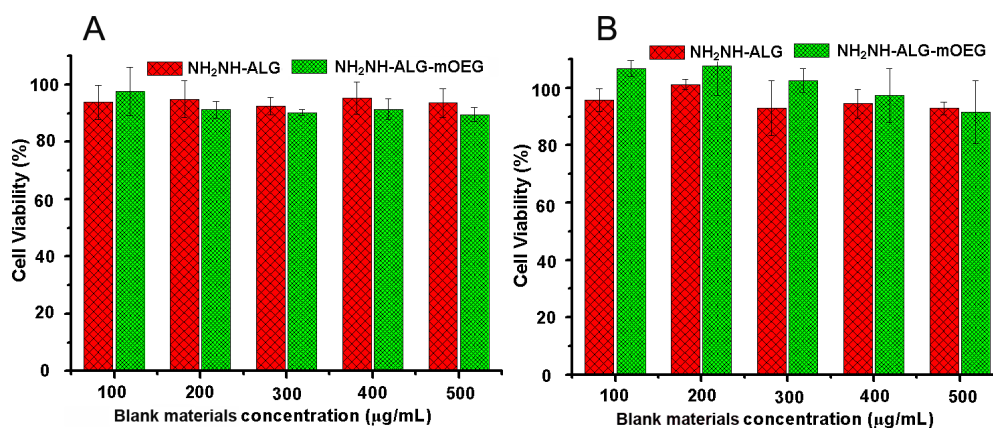
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**Fig. S1** FT-IR (A) and <sup>1</sup>H NMR (B) spectra of ALG (a) and ALG-mOEG (b)



**Fig. S2** the TEM image of (A) DOX-ALG-mOEG NPs and (B) DOX-ALG NPs; All scale bars are 200 nm.



**Fig. S3** Cytotoxicity of the NH<sub>2</sub>NH-ALG and NH<sub>2</sub>NH-ALG-mOEG against HepG2 cells (A) and Chang liver cells (B) after incubation for 48 h