

Electronic Supplementary Information

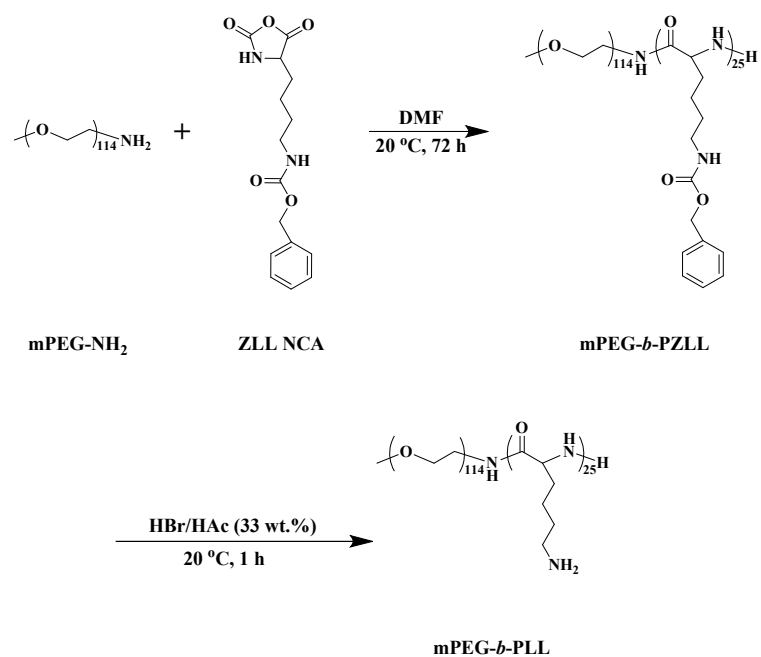
Polyion complex micelles with gradient pH-sensitivity for adjustable intracellular drug delivery

Jinjin Chen,^{†ab} Jianxun Ding,^{†a} Ying Zhang,^a Chunsheng Xiao,^a Xiuli Zhuang^a and Xuesi Chen^{*a}

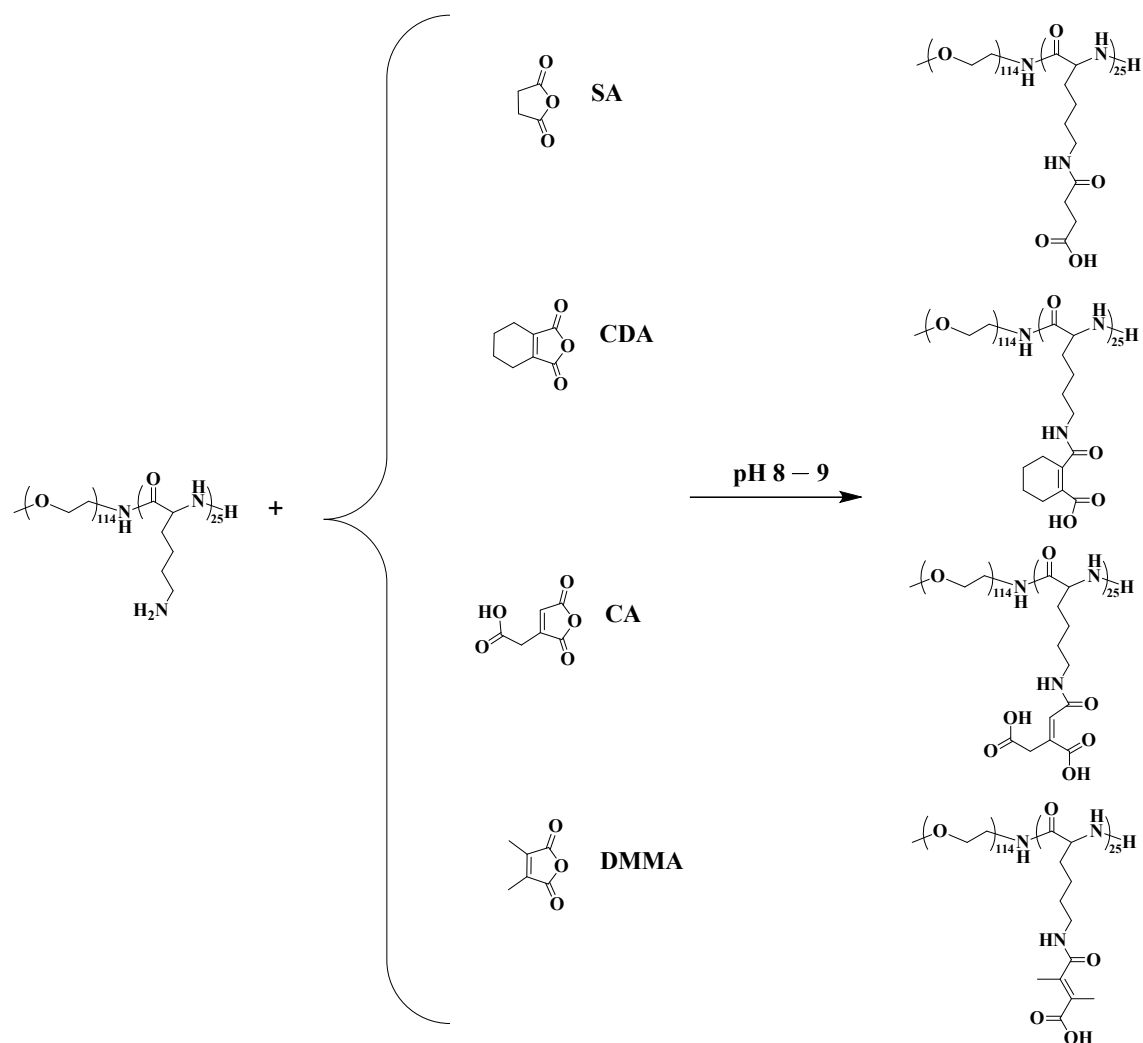
^aKey Laboratory of Polymer Ecomaterials, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun 130022, P. R. China. E-mail: xschen@ciac.ac.cn; Fax: +86 431 85262112; Tel: +86 431 85262112

^bUniversity of Chinese Academy of Sciences, Beijing 100039, P. R. China

[†] These authors contributed equally to this paper.



Scheme S1 Synthesis pathway for mPEG-*b*-PLL.



Scheme S2 Synthesis pathways of pH-sensitive block copolymers.

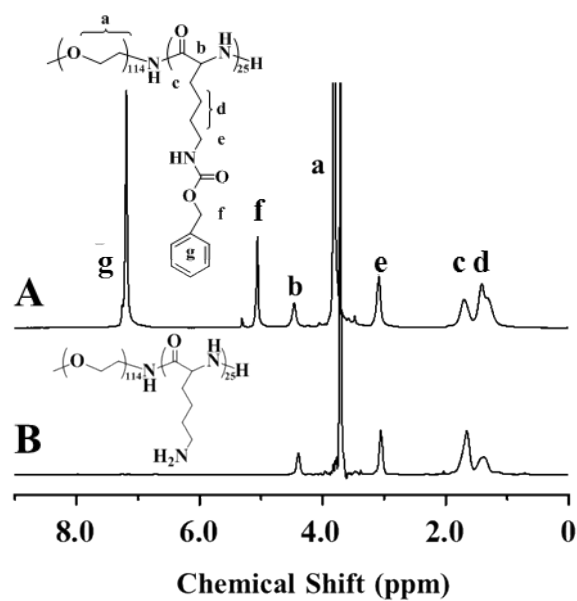


Fig. S1 ^1H NMR spectra of (A) mPEG-*b*-PZLL and (B) mPEG-*b*-PLL in $\text{TFA-}d$.

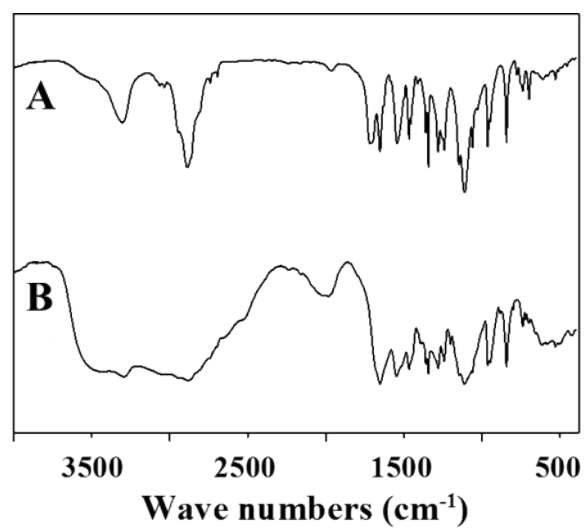


Fig. S2 FT-IR spectra of (A) mPEG-*b*-PZLL and (B) mPEG-*b*-PLL

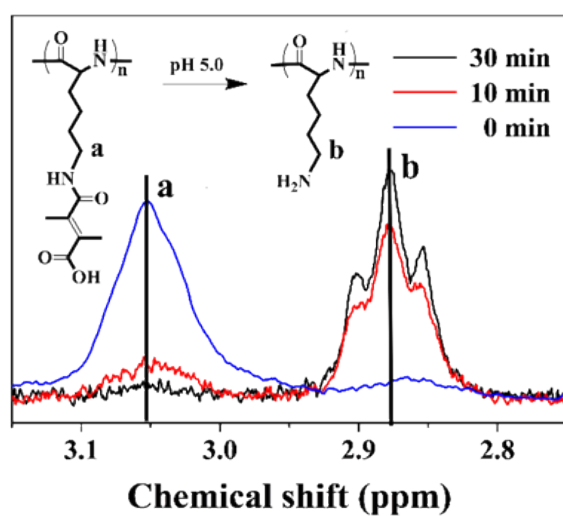


Fig. S3 Typical ^1H NMR signal intensity changes of mPEG-*b*-PLL/DMMA at pH 5.0.

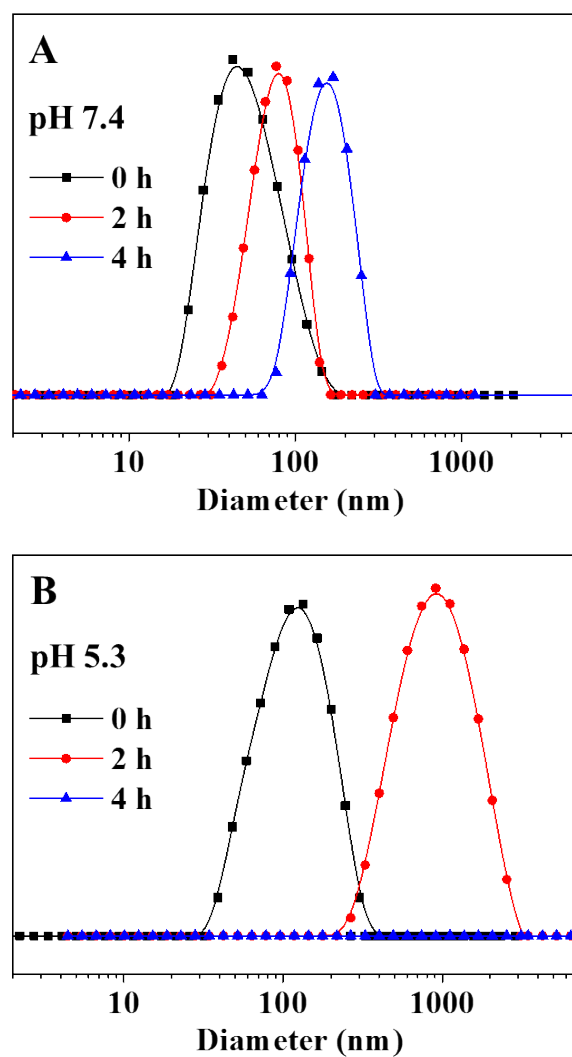


Fig. S4 Typical D_{hs} of DMMA micelles at pH 7.4 (A) and 5.3 (B) after 0, 2, or 4 h of dissolution.