Supplementary Material



Fig. S1 NMR spectra of (A) chitosan, (B) periodate-oxidized chitosan, (C) amphiphilic chitosan. All the samples were dissolved in D_2O .



Fig. S2 Florescence spectra of pyrene dissolved in amphiphilic chitosan solutions with concentrations of (a) 1.0, (b) 0.5, (c) 0.25, (d) 0.125, and (e) 0.1 mg/mL. Amphiphilic chitosan solutions were prepared in 0.1M MES buffer.



Fig. S3 Plot of I_{374}/I_{385} intensity ratio of pyrene fluorescence spectra as a function of concentration of amphiphilic chitosan aqueous solutions. From the interception of two lines, the CAC of amphiphilic ³⁰ chitosan was determined to be 3.0×10^{-2} mg/mL.