Supporting Information:

Host-guest Interactions Mediated Polymeric Assemblies: Multifunctional Nanoparticles for Drug and Gene Delivery

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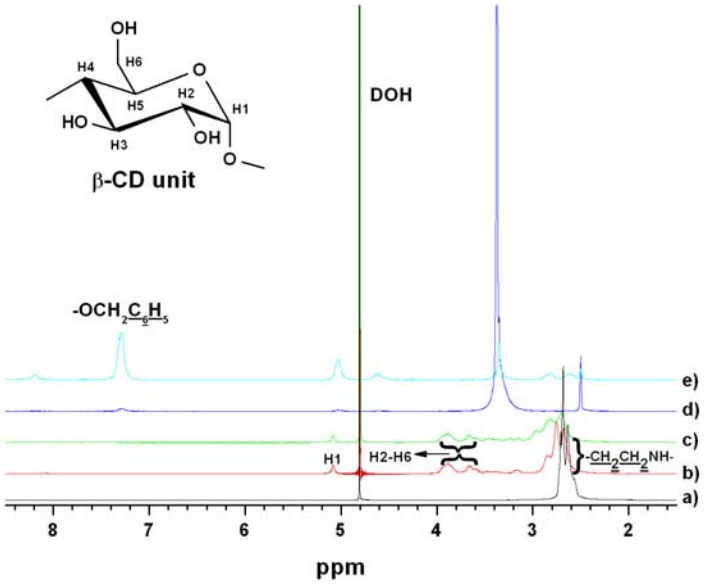


Figure S1. ^{1}H NMR spectra of a) PEI in D_2O, b)PEI-CD in D_2O, c) PEI-CD/PBLA in D_2O, d) PEI-CD/PBLA in DMSO-d_6, and e) PBLA in DMSO-d_6.

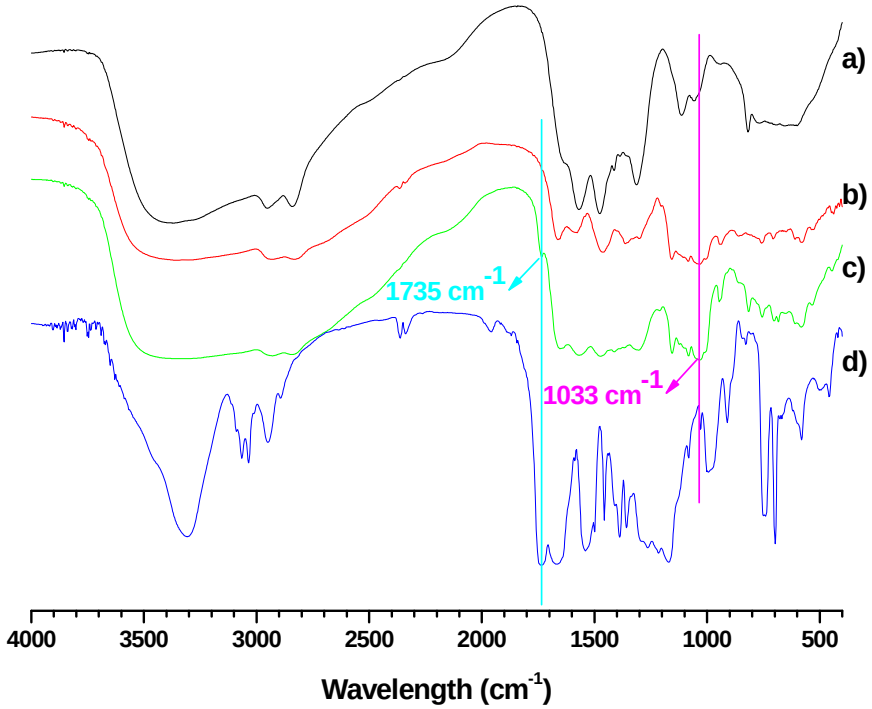
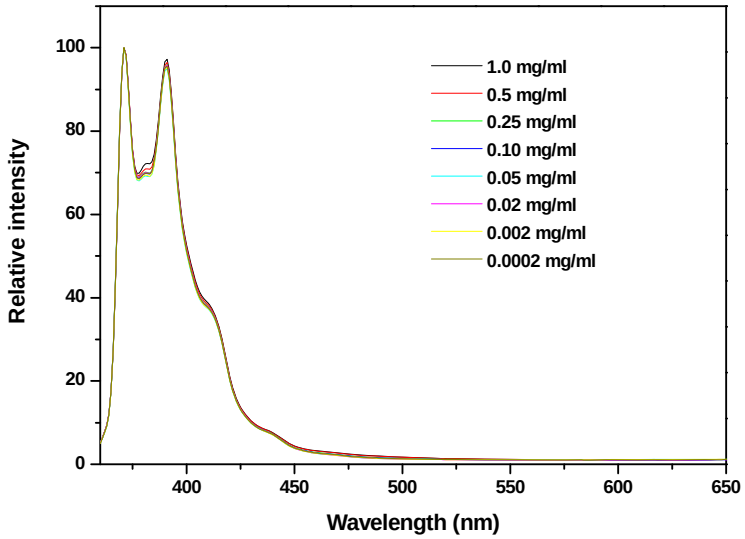
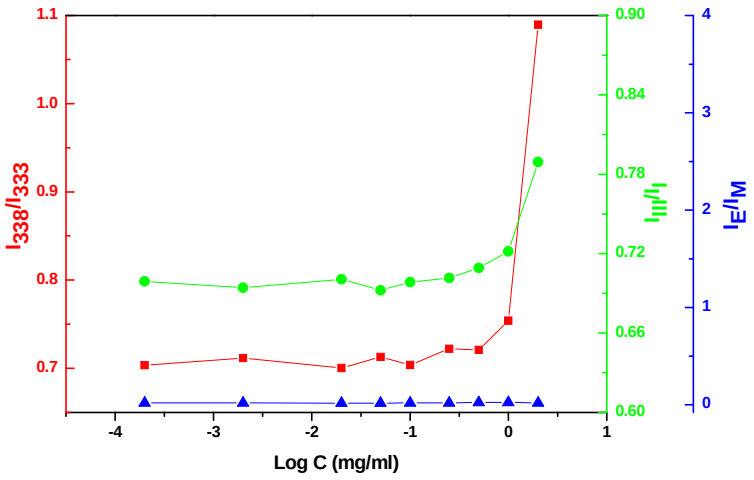


Figure S2. FT-IR spectra of a) PEI, b) PEI-CD, c) PEI-CD/PBLA assemblies, and d) PBLA.



(a)



(b)

Figure S3. Normalized emission spectra of pyrene in aqueous solutions containing various concentrations of β-CD. (a), emission spectra with an excitation wavelength at 339 nm; (b), plots of I_{338}/I_{333}, I_3/I_1 and I_E/I_M as a function of β-CD concentration. I_{338}/I_{333} -- the intensity ratio of the (0, 0) band in pyrene excitation spectrum; I_3/I_1 -- the intensity ratio between the third and first vibrational bands in pyrene emission spectrum; I_E/I_M -- the intensity ratio of the excimer (475 nm) to monomer (371 nm) in emission spectrum. [Pyrene]=6.0×10^{-7} M.

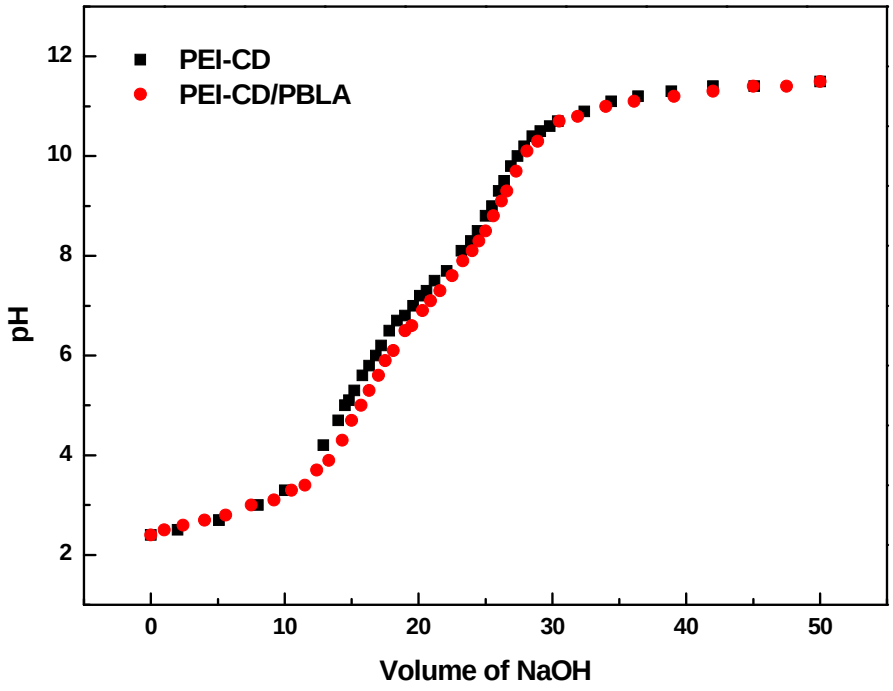


Figure S4. Titration of PEI-CD and PEI-CD/PBLA aqueous solutions in 0.01 N HCl with 0.01 N NaOH solution.