

Switchable release nano-reservoirs for co-delivery of drugs via a facile micelle-hydrogel composite

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Figures

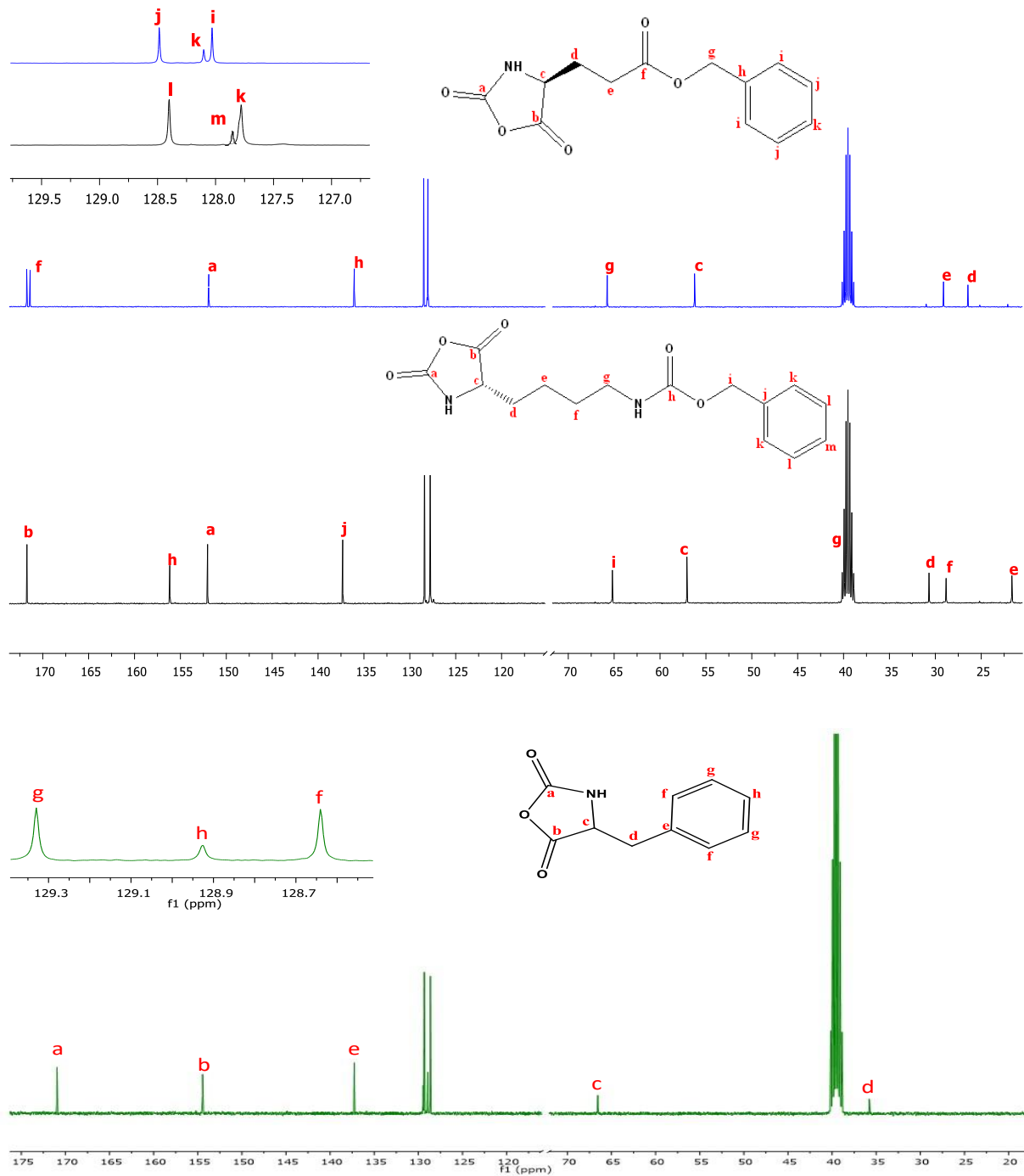


Figure S1: ^{13}C NMR of Glu (OBzl)-NCA [blue]; Lys(Z)-NCA [black] and Phe-NCA [green].

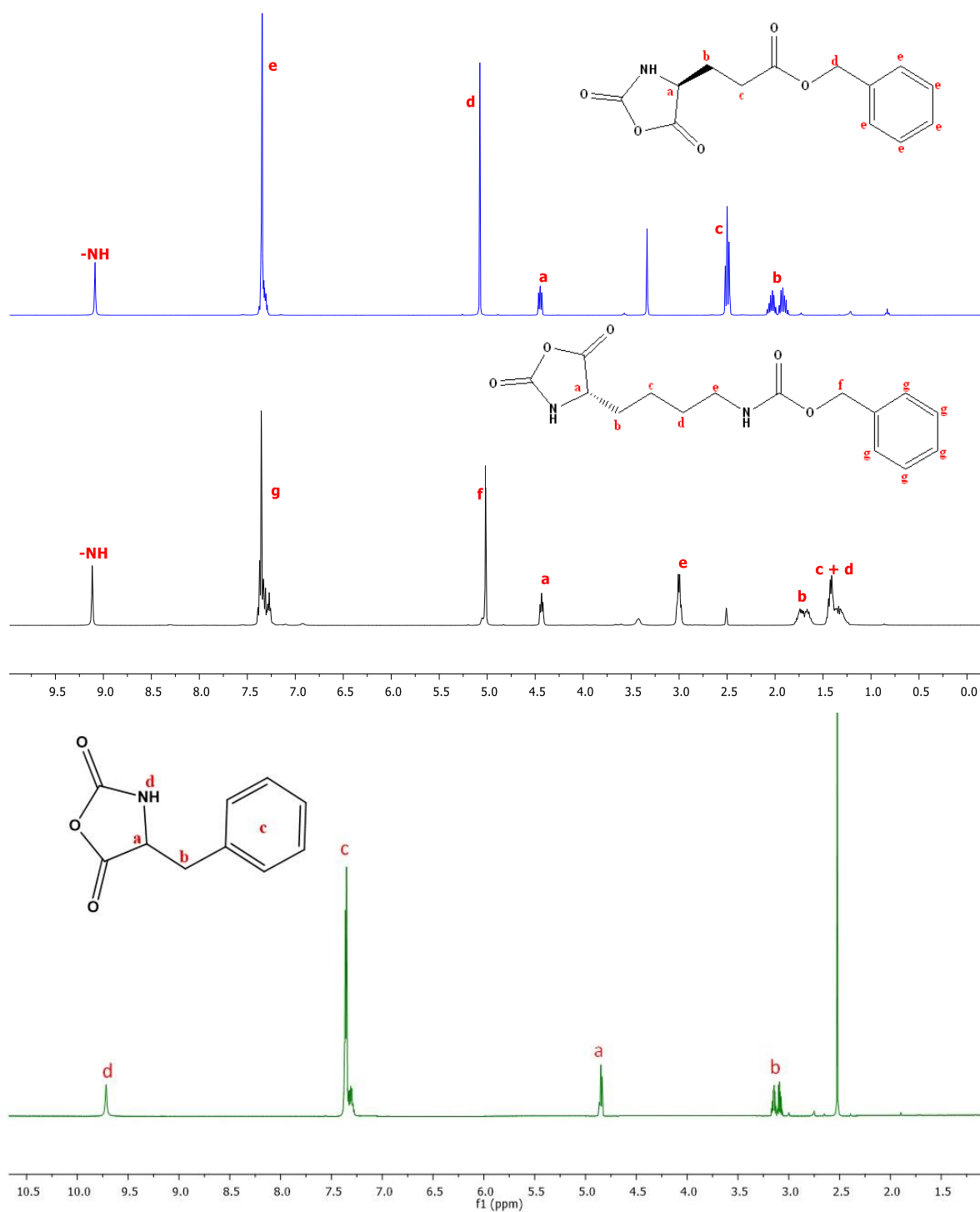


Figure S2: ^1H NMR of Glu (OBzl)-NCA [blue]; Lys(Z)-NCA [black] and Phe-NCA [green].

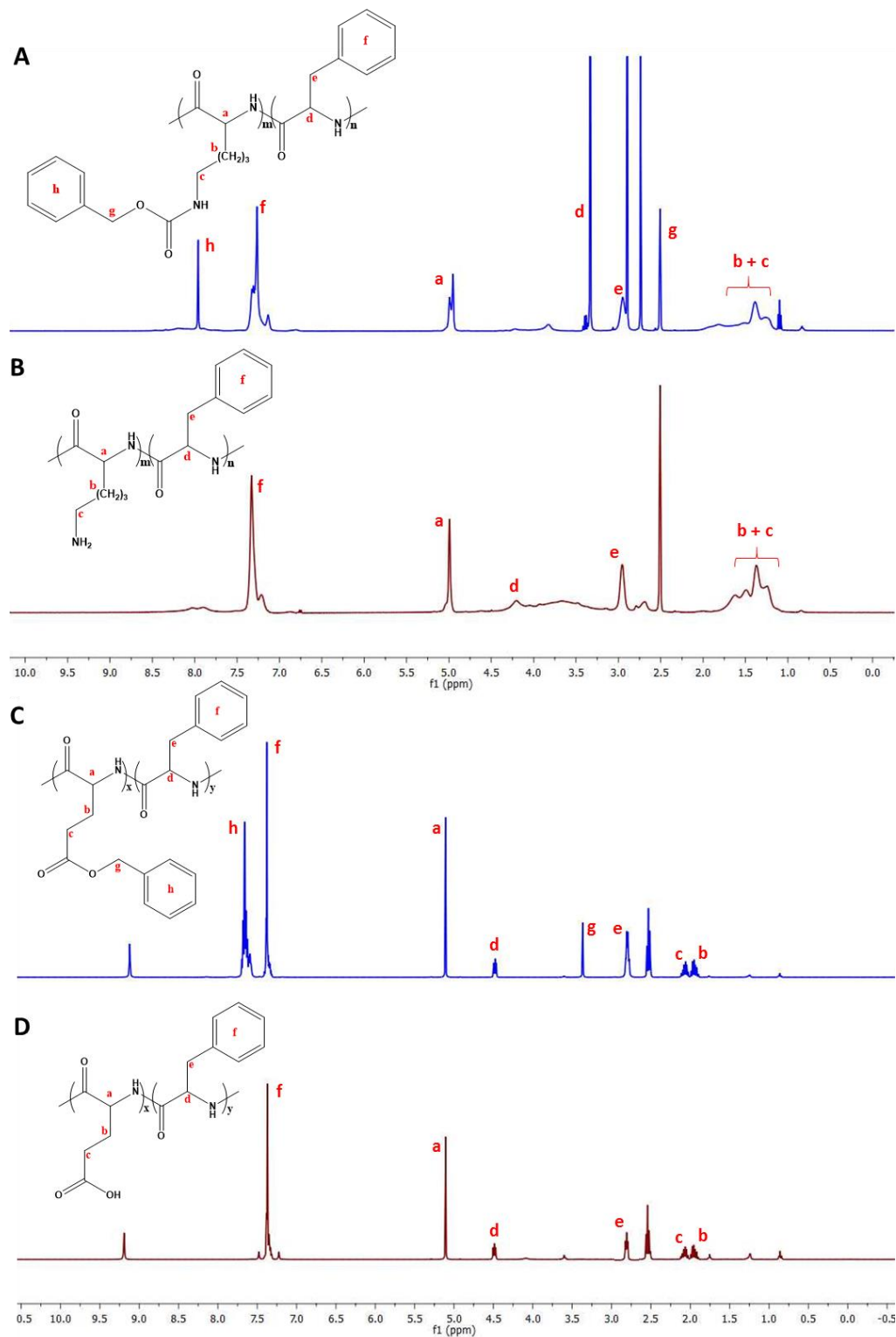


Figure S3: ^1H NMR of synthesized polymers A. PLL-PPA (poly L lysine-b-poly phenylalanine) protected; B. PLL-PPA deprotected; C. PGA-PPA (poly glutamic acid-b-poly phenylalanine) protected and D. PGA-PPA deprotected.

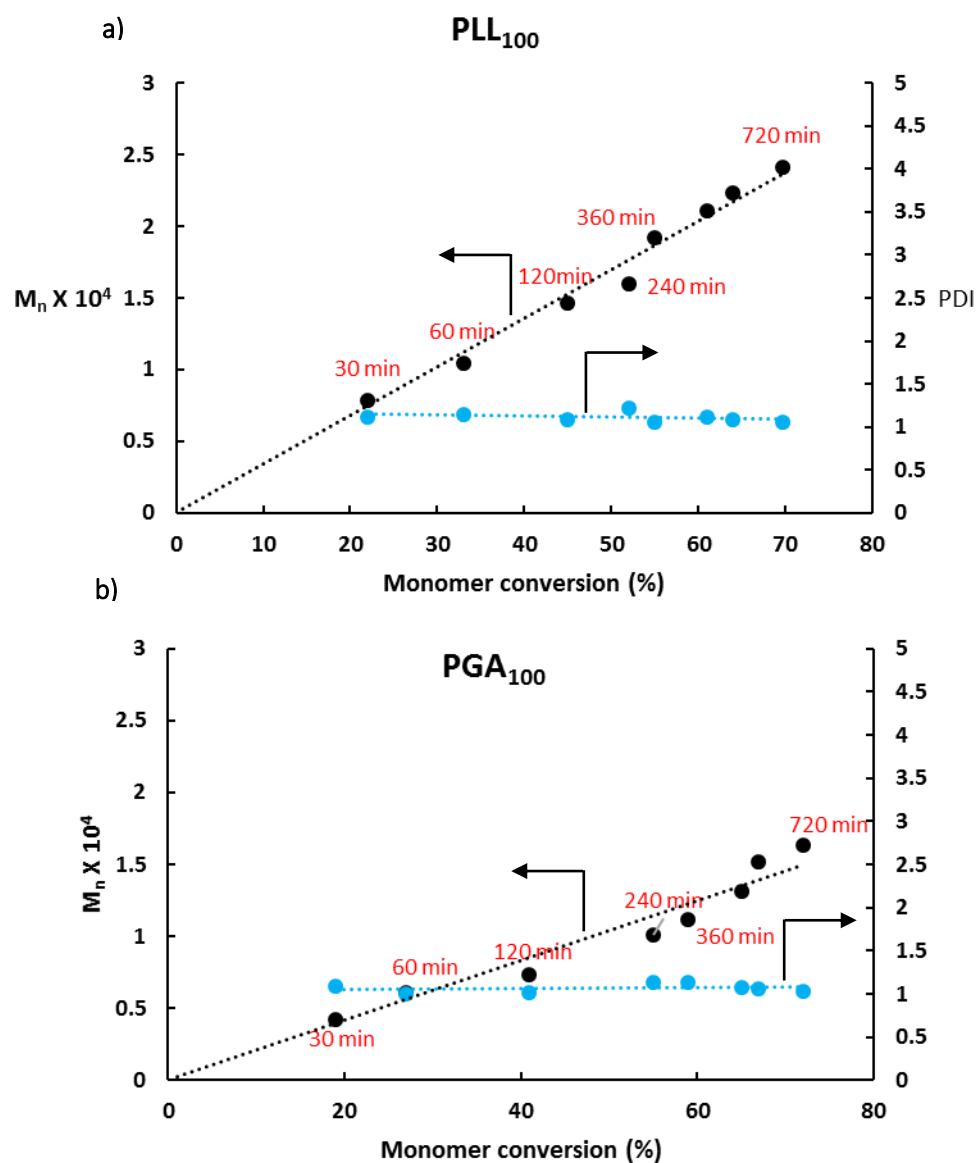


Figure S4: Molecular weight (M_n) and the PDI as a function of monomer conversion showing the controllability of the polymerization reaction; **a.** PLL block and **b.** PGA block

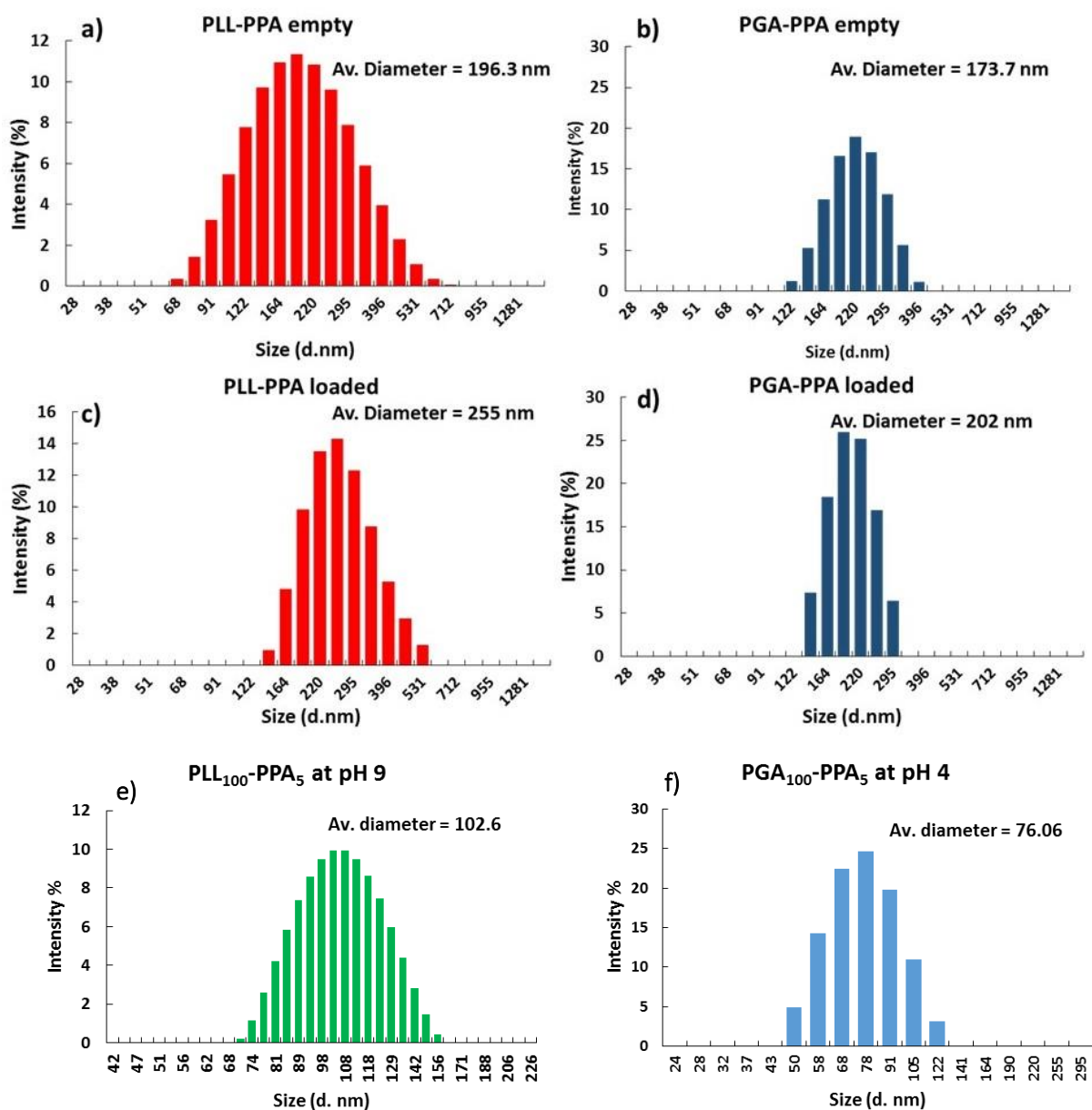


Figure S5: Dynamic Light Scattering (DLS) results (a) and (c) show PLL-PPA micelles before and after curcumin loading; (b) and (d) show PGA-PPA micelles before and after loading of amphotericin B; (e) and (f) showing the change in hydrodynamic diameter of PLL₁₀₀-PPA₅ and PGA₁₀₀-PPA₅ at pH 9.0 and 4.0 respectively.

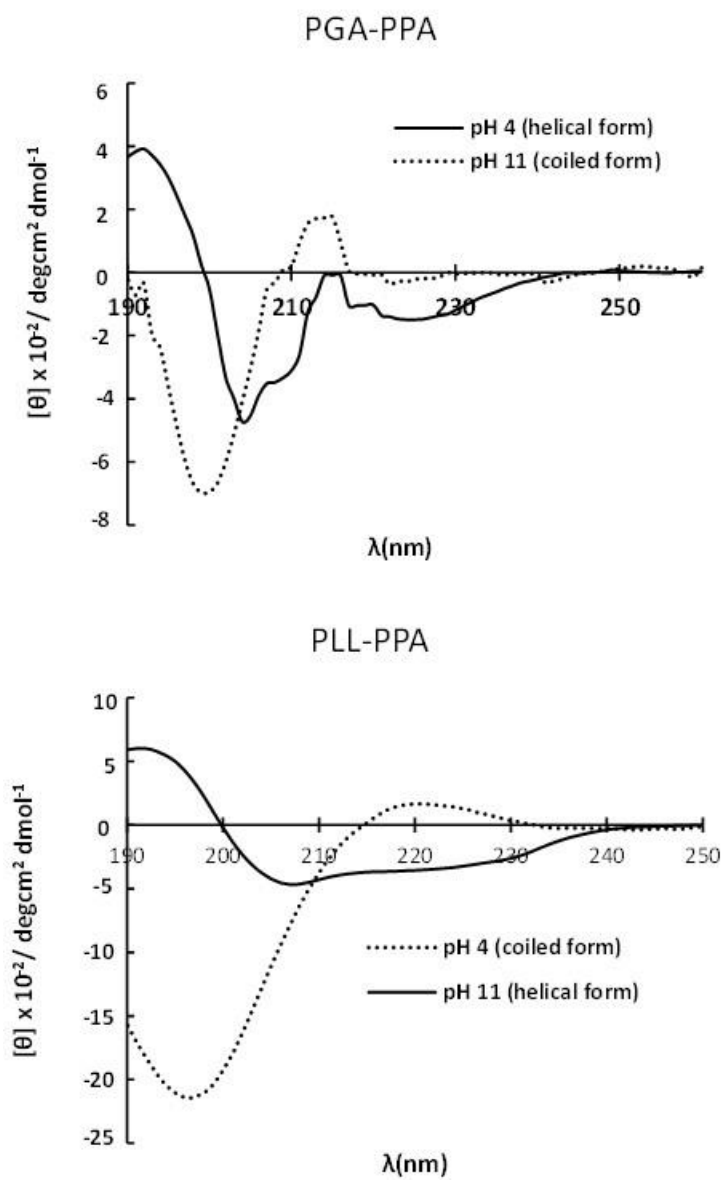


Figure S6: CD spectra of PGA-PPA (top) and PLL-PPA (bottom) at pH showing their respective transitions from random coil to α -helix at change in pH.

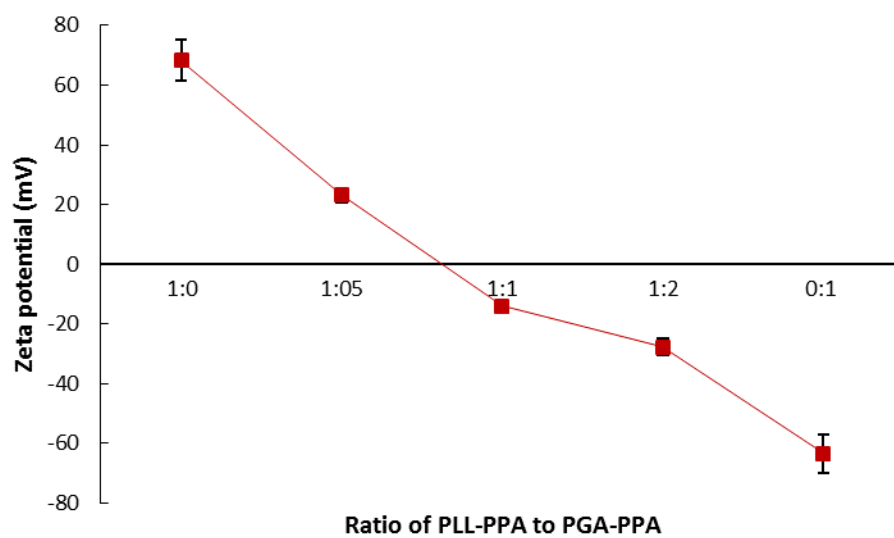


Figure S7: Variations in zeta potential of various ratios of PLL-PPA: PGA-PPA micelles.

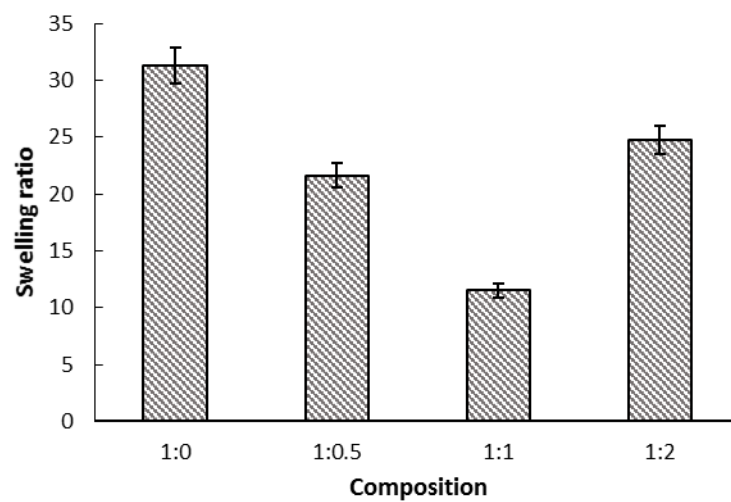


Figure S8: The equilibrium swelling ratios of the composites with varying ratios of PLL-PPA: PGA-PPA. (n=3)