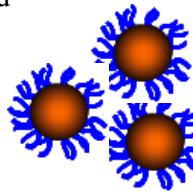
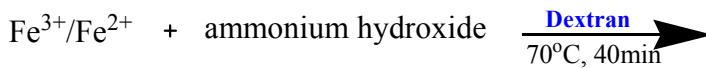
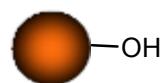
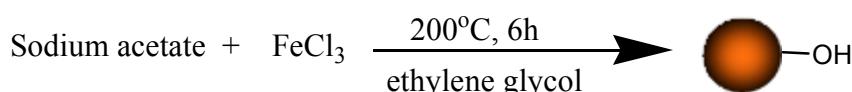


(A) The synthesis of Dextran IONP by coprecipitation method



(B) The synthesis of Bare IONP by solvothermal method



(C) The synthesis of PHEMA/PMPC IONP by graft from method

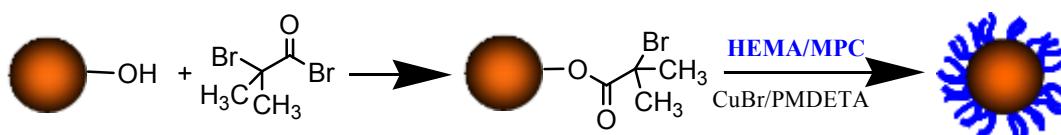


Fig S1. Synthetic routes of the Dextran IONP, Bare IONP and PHEMA/MPMC IONP.

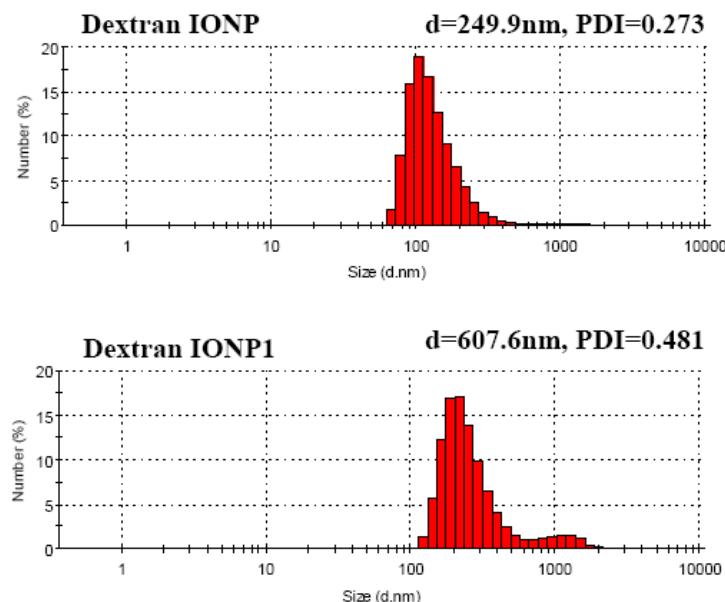


Fig. S2. The DLS measurement of Dextran IONP

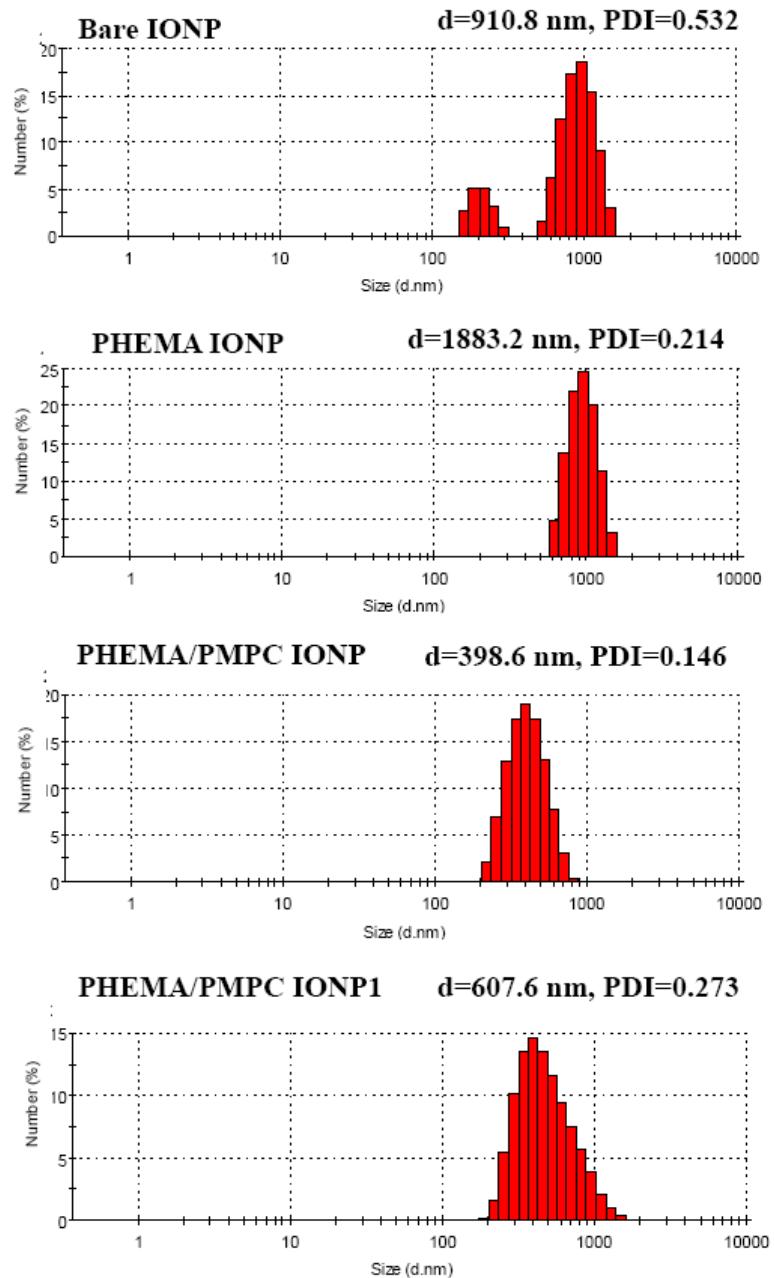


Fig. S3. The DLS measurement of Bare IONP and PHEMA/PMPC IONP

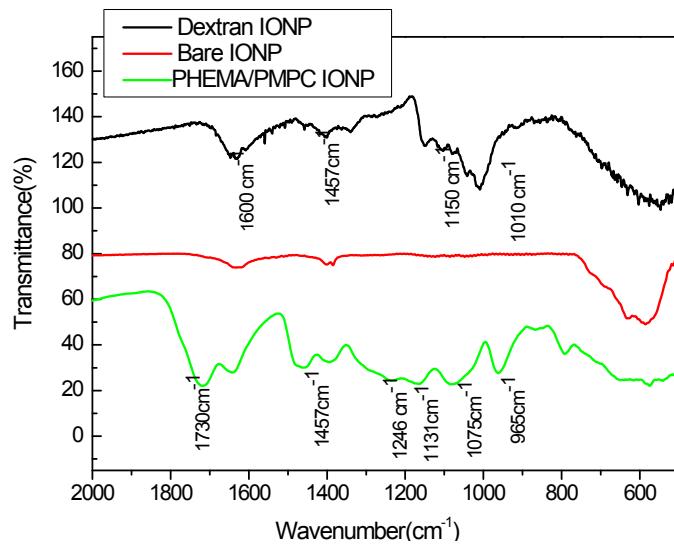


Fig.S4 FTIR spectra of iron oxide samples.

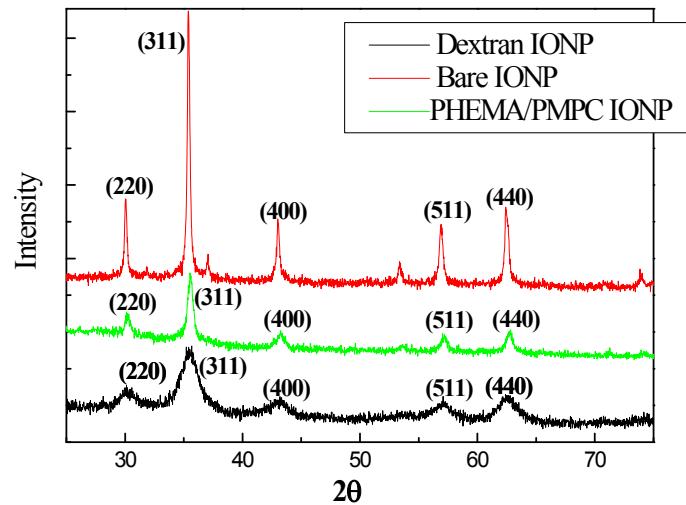


Fig. S5 Overlay of X-ray power diffraction patterns of the iron oxide nanoparticles.

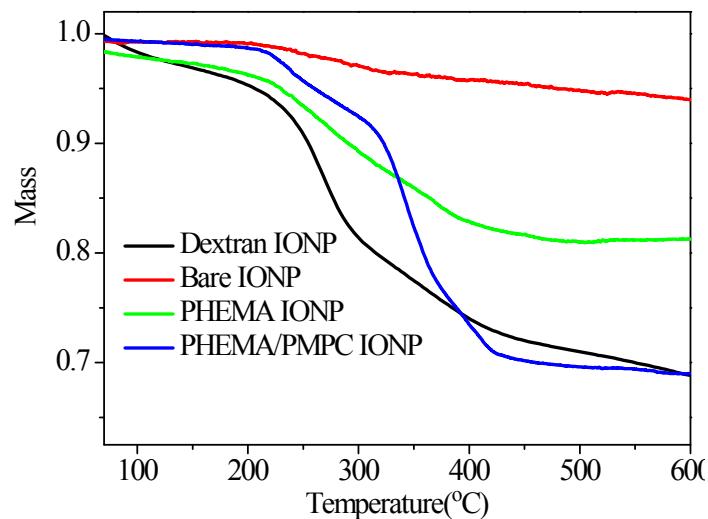


Fig.S6 The thermogravimetric analysis of iron oxide nanoparticle

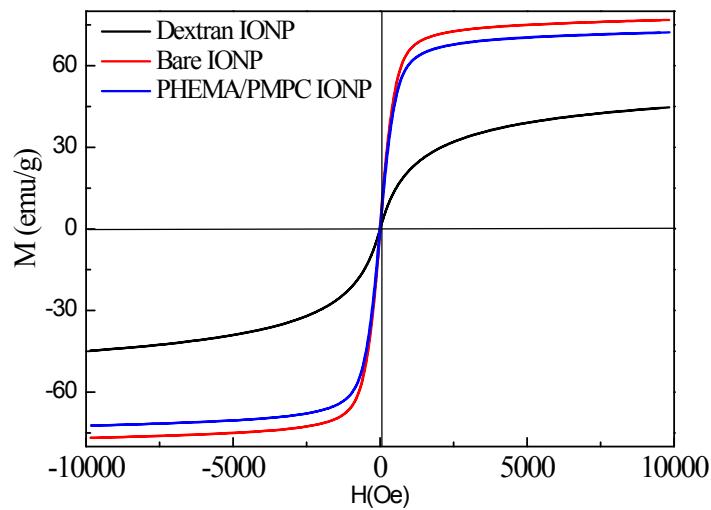


Fig.S7 The magnetic hysteresis loops of of iron oxide nanoparticle