

SUPPORTING INFORMATION

Enhanced encapsulation of superparamagnetic Fe₃O₄ in acidic core-containing micelles for magnetic resonance imaging

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Figure S1. GPC trace of PEG-b-PtBMA (BCP-HY-0), compared with PEG-Br.

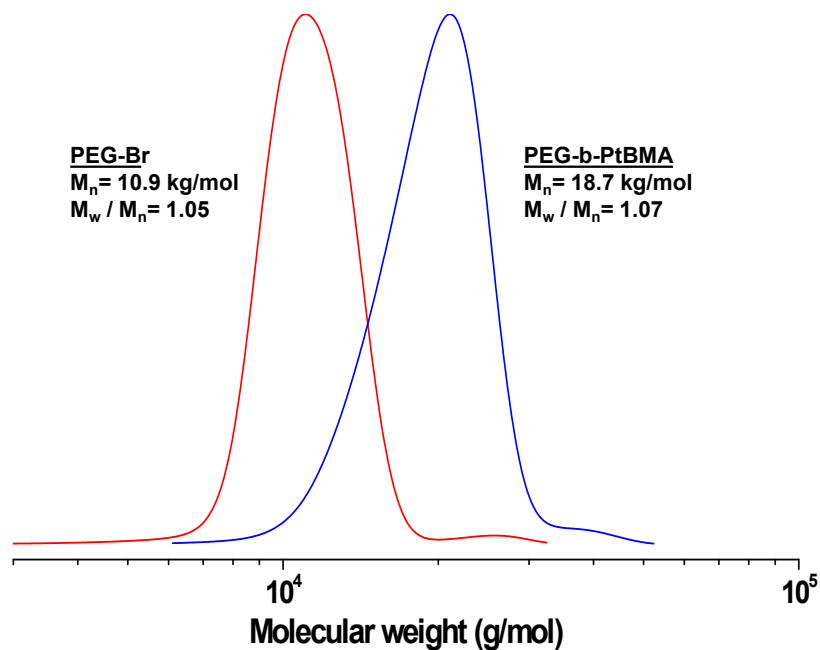


Figure S2. Extent of hydrolytic cleavage of pendant PtBMA in PEG-b-PtBMA vs amount of CF_3COOH as $[\text{CF}_3\text{COOH}]_0/[\text{tBMA}]_0$.

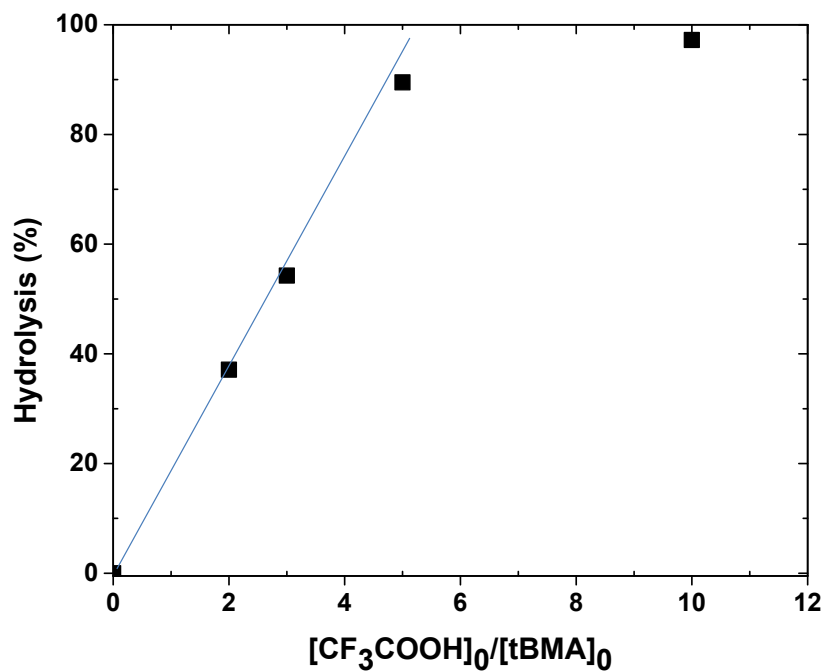


Figure S3. Fluorescence spectra to determine CMC. Arrows indicate the maximum fluorescence wavelength.

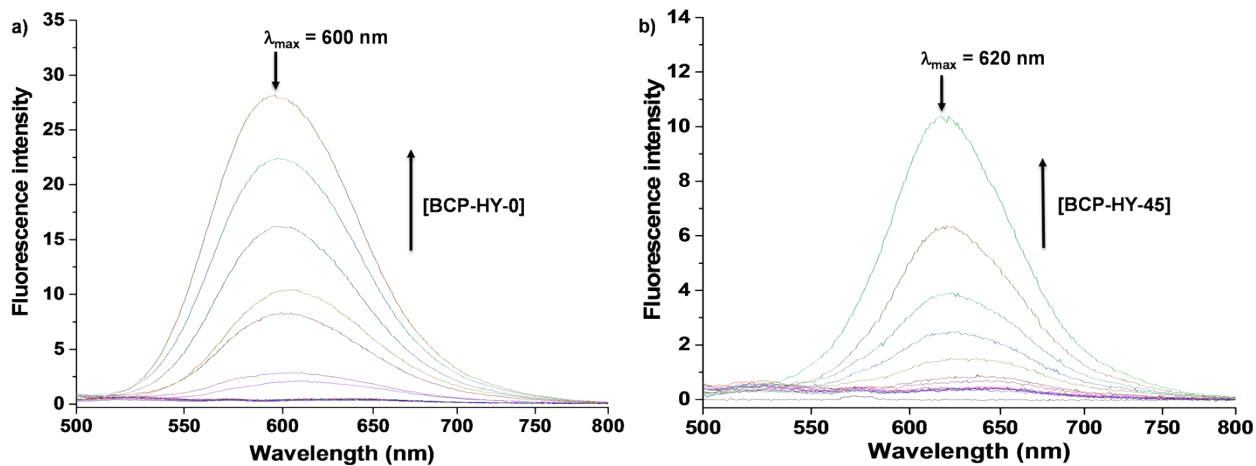


Figure S4. DLS histograms of SNP/BCP-HY-0 micelles prepared with initial wt ratio of SNP/BCP-HY-0 = 1/1 in feed, before and after centrifugation.

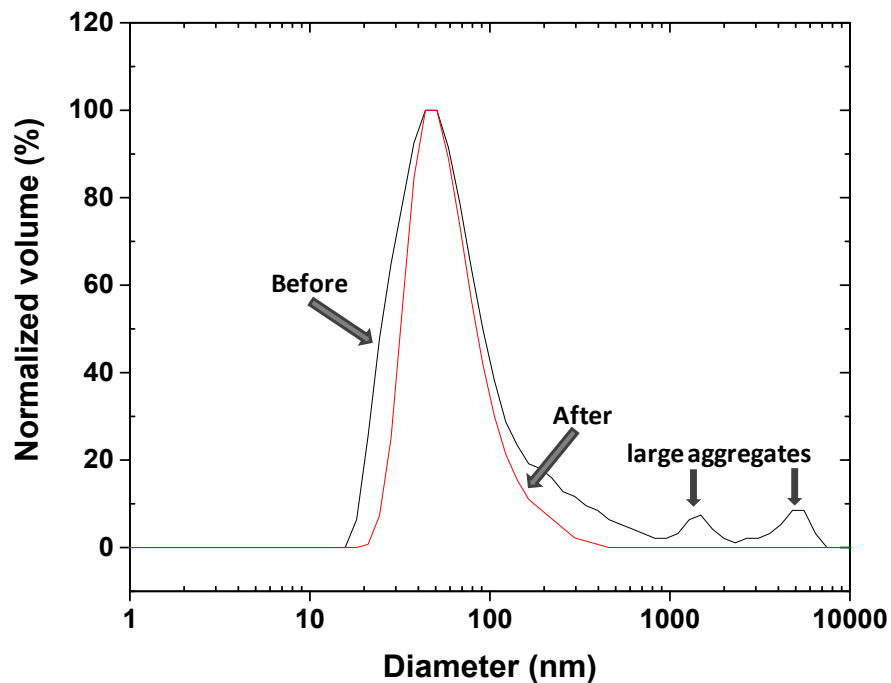


Figure S5. DLS diagrams of SNP/BCP-HY-0 micelles in aqueous solution (a) and TGA traces of purified, lyophilized SNP/BCP-HY-0 micelles compared with OA-SNPs and BCP-HY-0 (b).

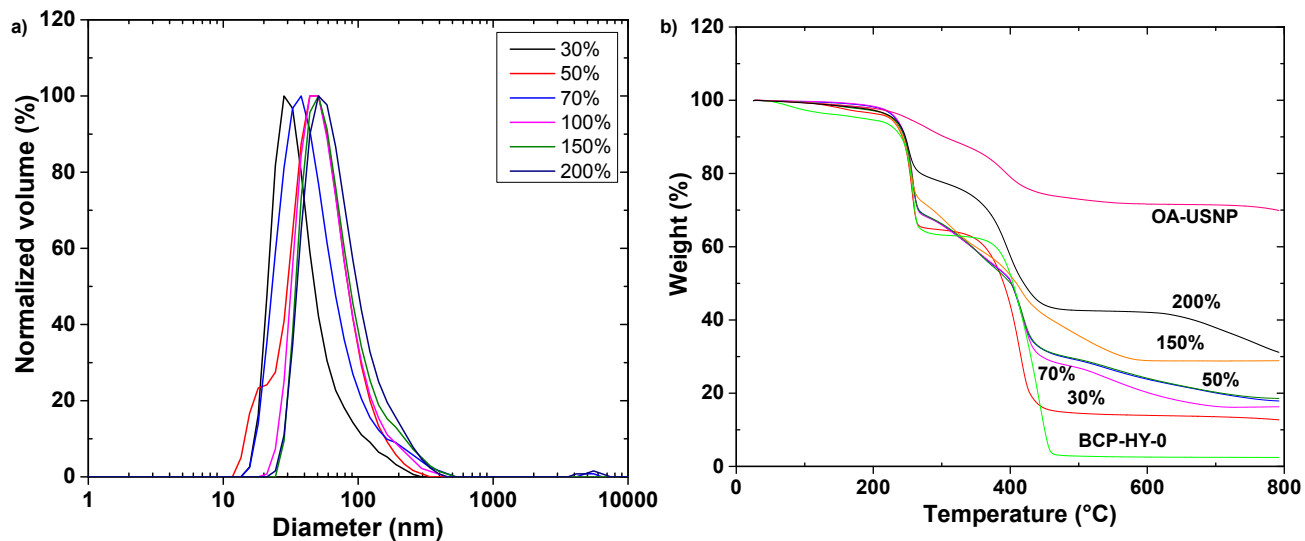


Figure S6. Relaxation rates ($1/T_1$ and $1/T_2$) versus Fe concentration for SNP/BCP-HY-0 micelles prepared in the presence of different amounts of SNPs in feed as the wt ratio of SNPs/BCP-HY-0 = 0.5/1 (a), 1/1 (b), and 1.5/1 (c).

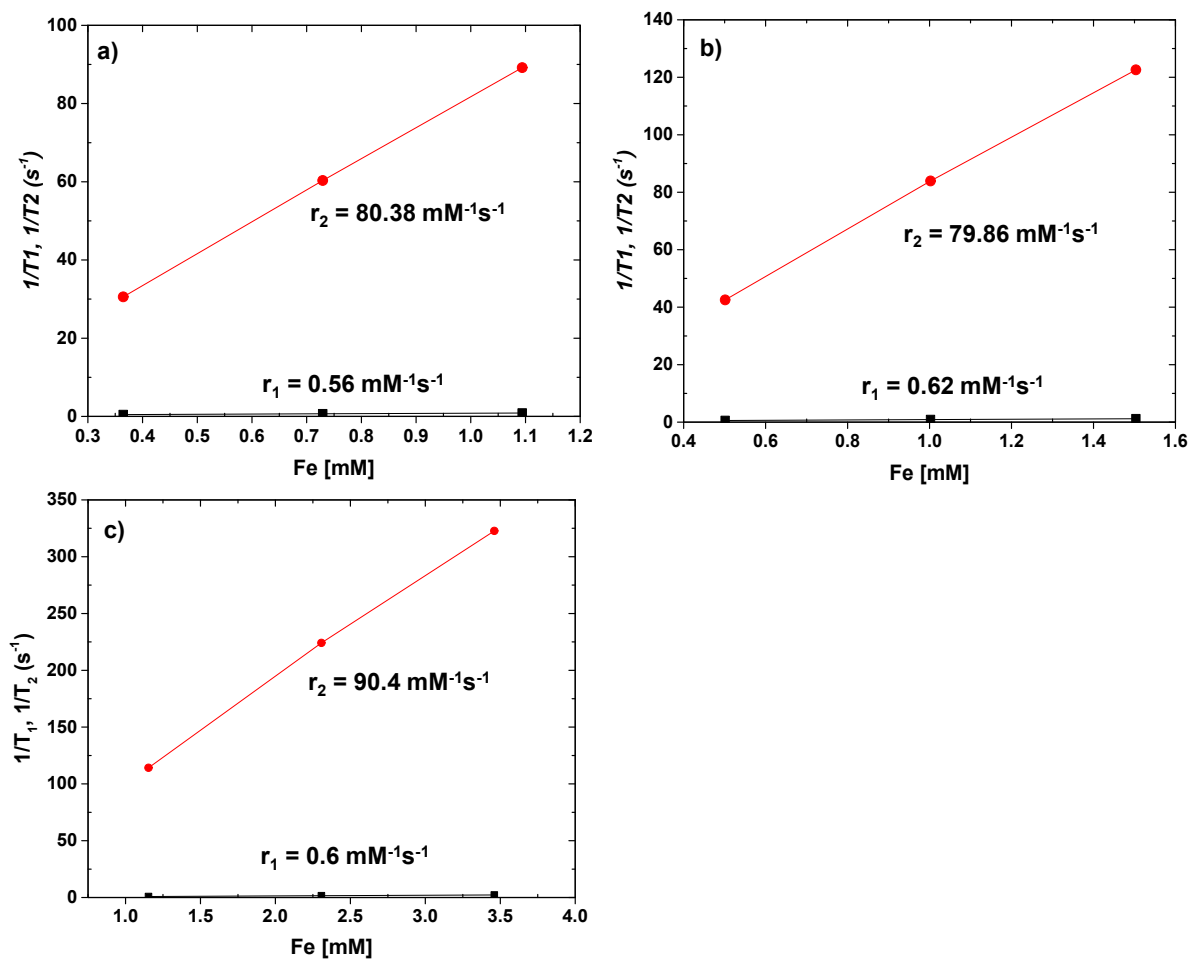


Figure S7. DLS diagrams of SNP/BCP-HY-45 micelles after 48 hrs of incubation with BSA at different mass ratios of BSA/micelles = 40/1 and 1/1.

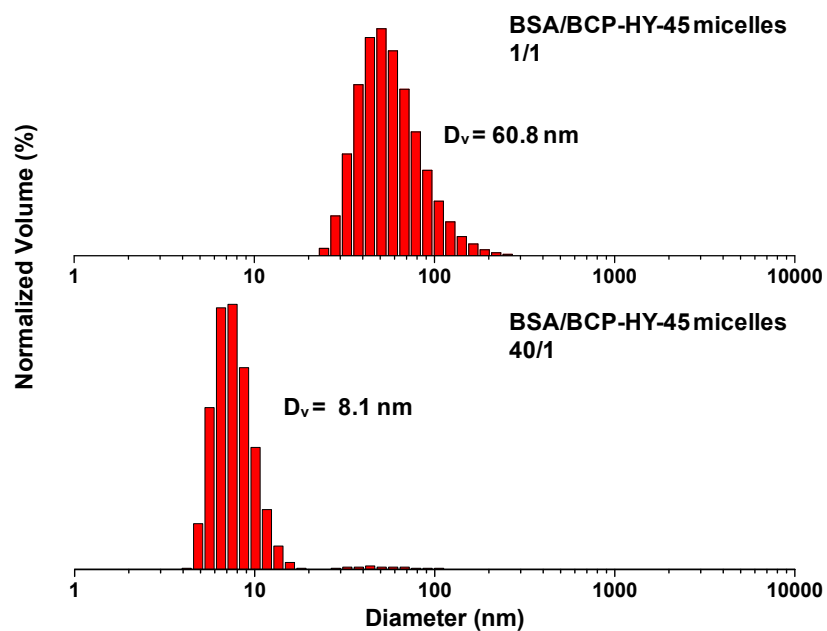


Figure S8. UV/Vis spectrum of Dox-loaded micelles in a mixture of DMF/water = 5/1 v/v.

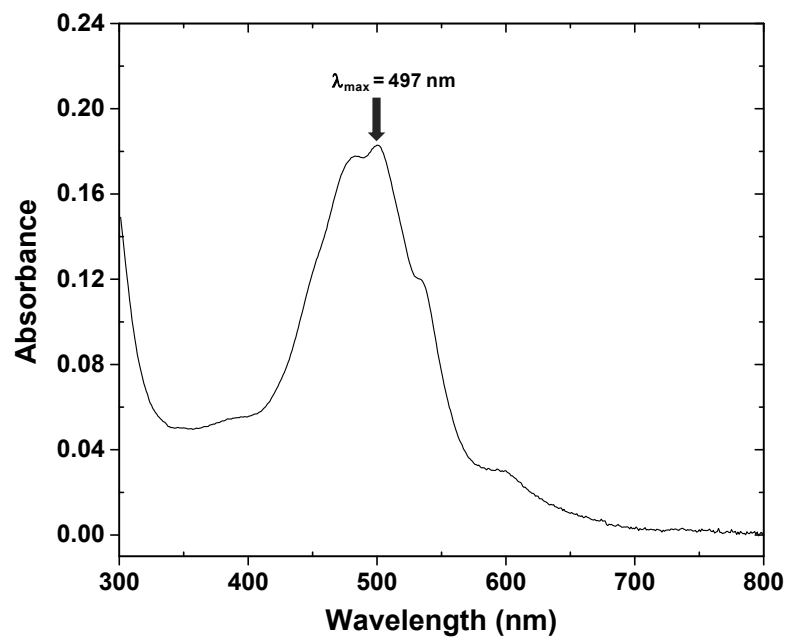


Figure S9. Overlaid fluorescence spectra of outer water for Dox-loaded BCP-HY-45 micelles at pH = 7 (a) and pH = 5 (b) over time.

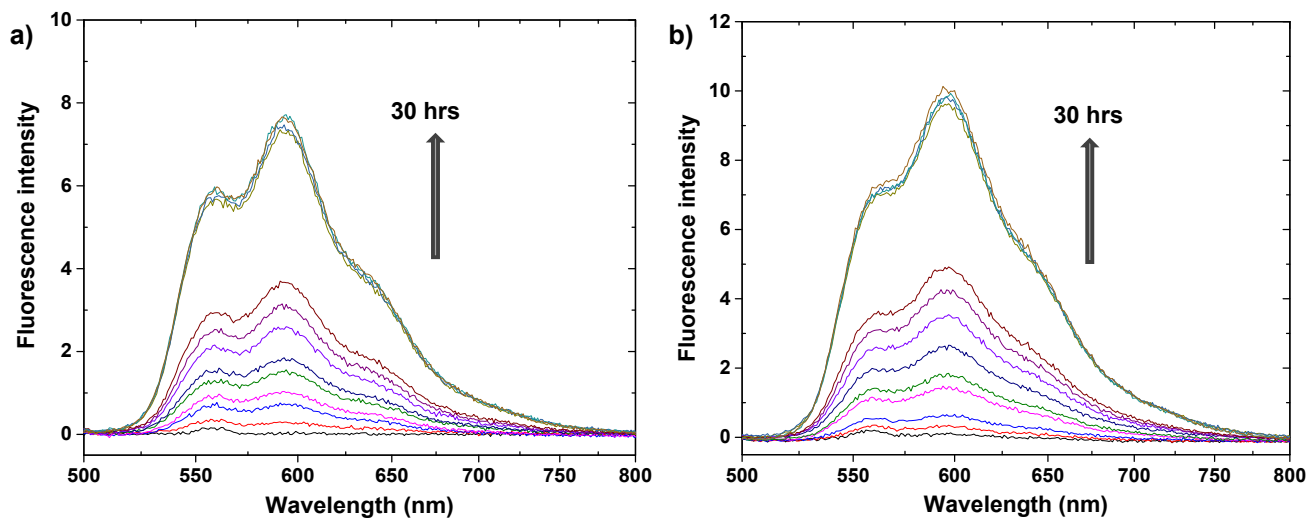


Figure S10. DLS diagrams of empty micelles of BCP-HY-45 at pH = 5.

