

Figure S1. ¹H-NMR spectrum of tri-aminated polysorbate 80 (TP80).

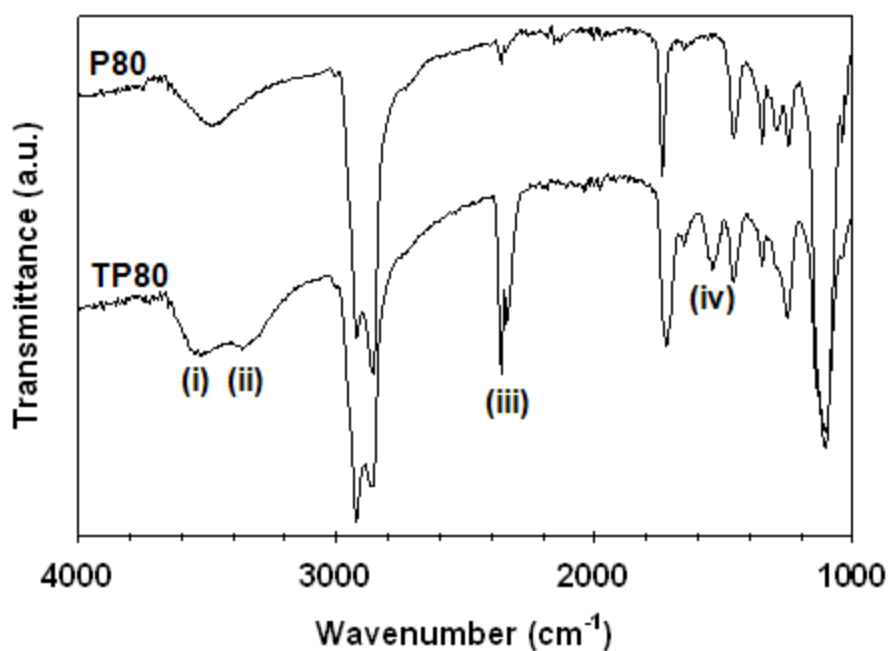


Figure S2. FT-IR spectra of polysorbate 80 (P80) and tri-aminated polysorbate 80 (TP80); (i) N-H stretching of amine group, (ii) C-N stretching of amide group, (iii) O-CO-CH₃ stretching, (iv) N-H banding of amine group.

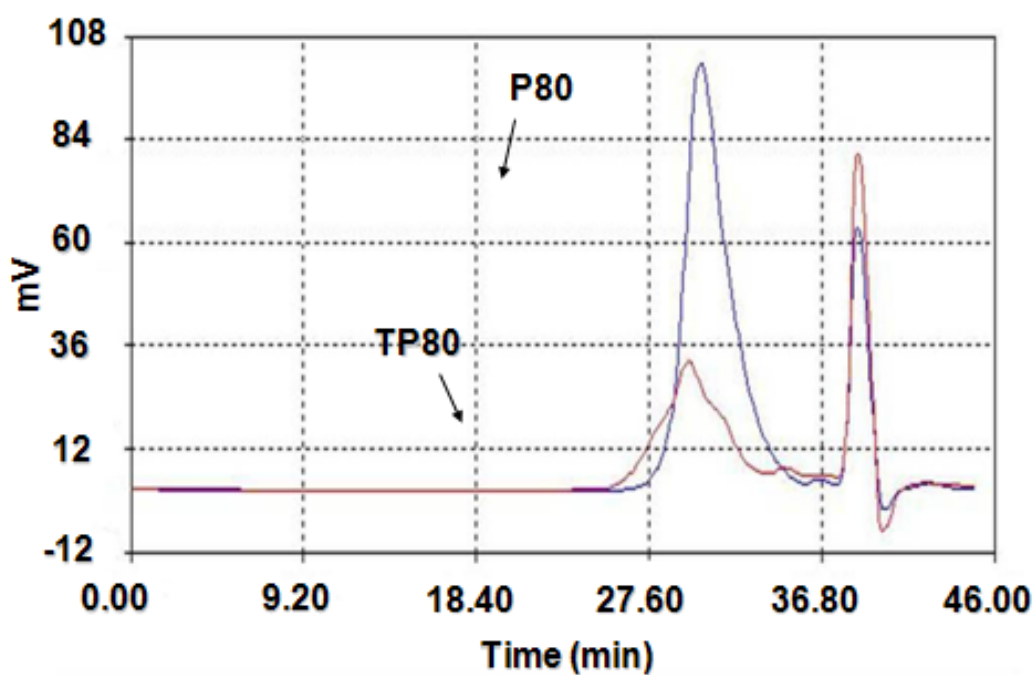


Figure S3. Gel permeation chromatography (GPC) of P80 and TP80.

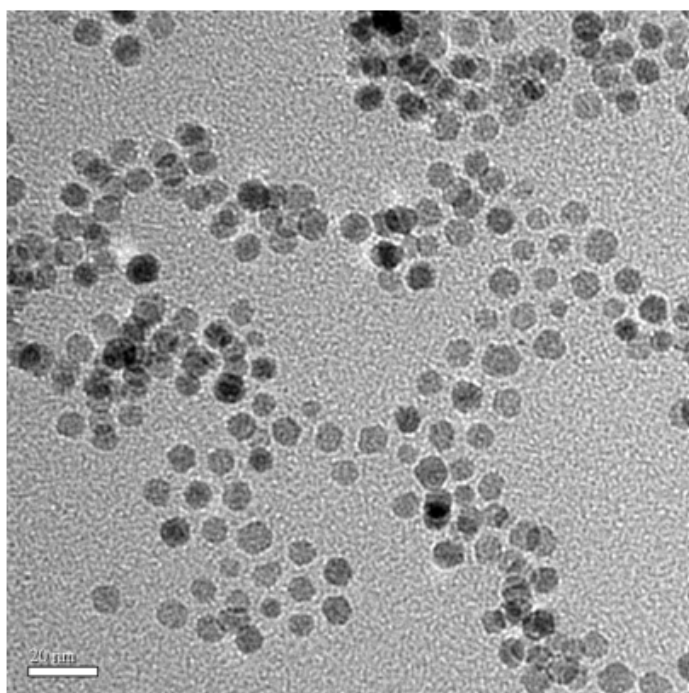


Figure S4. TEM images of self-labeled magneto nanoprobe (SLMN) in aqueous solution (Scale bar: 20 nm).

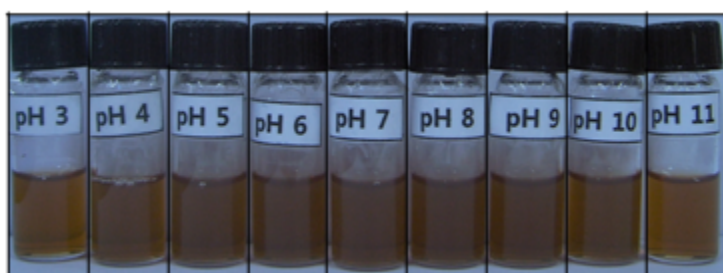


Figure S5. Stability tests of SLMNs against pH condition.