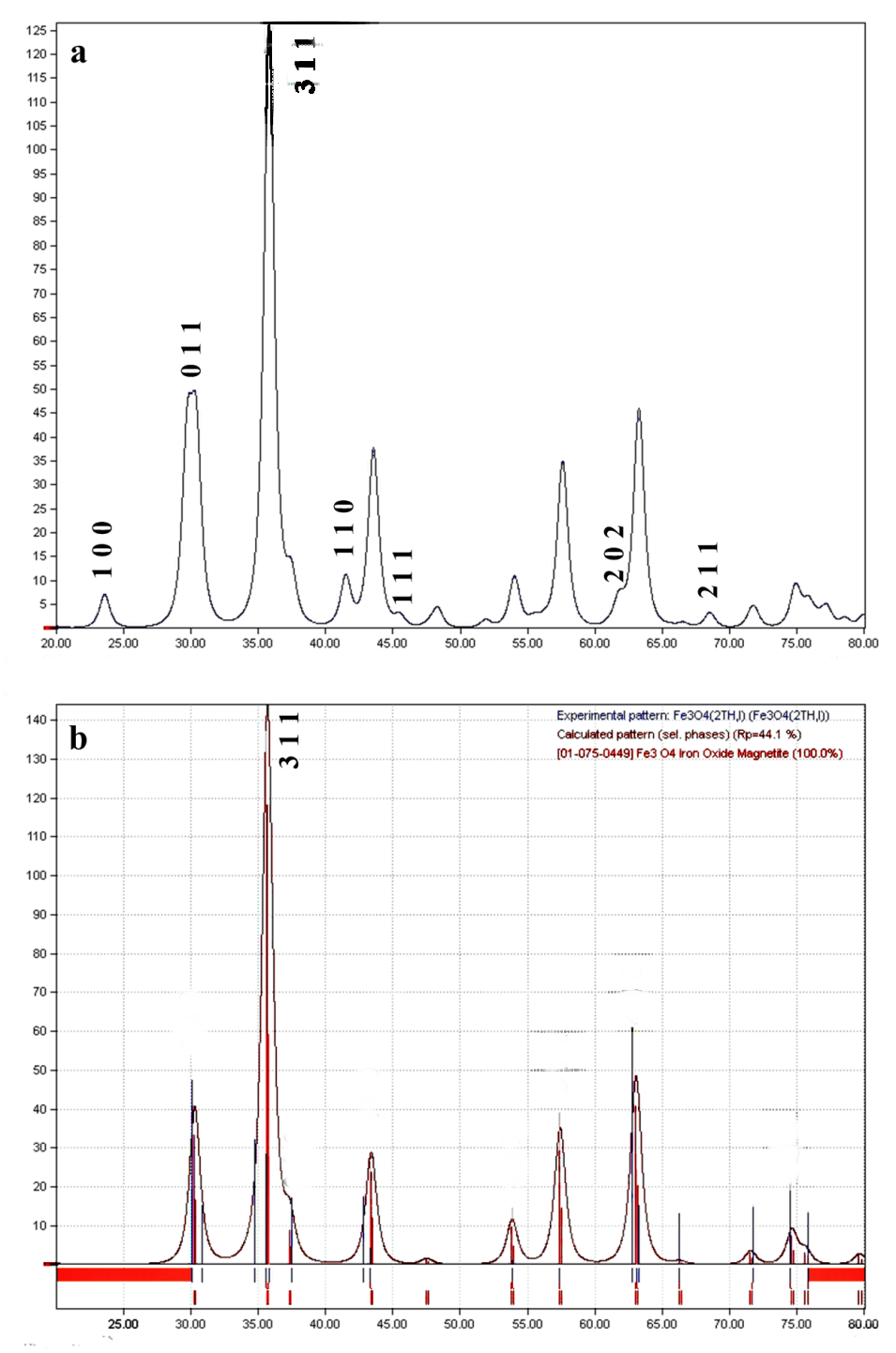
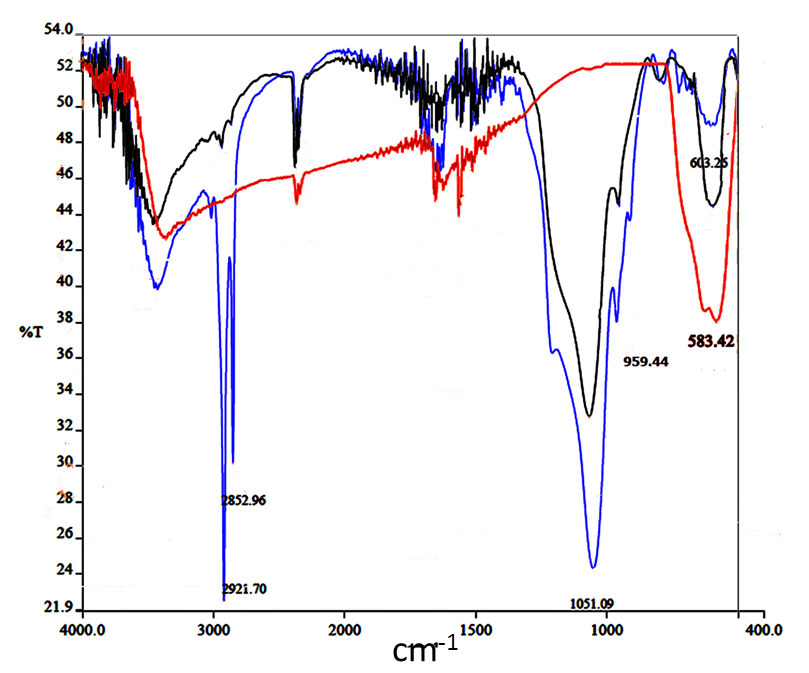
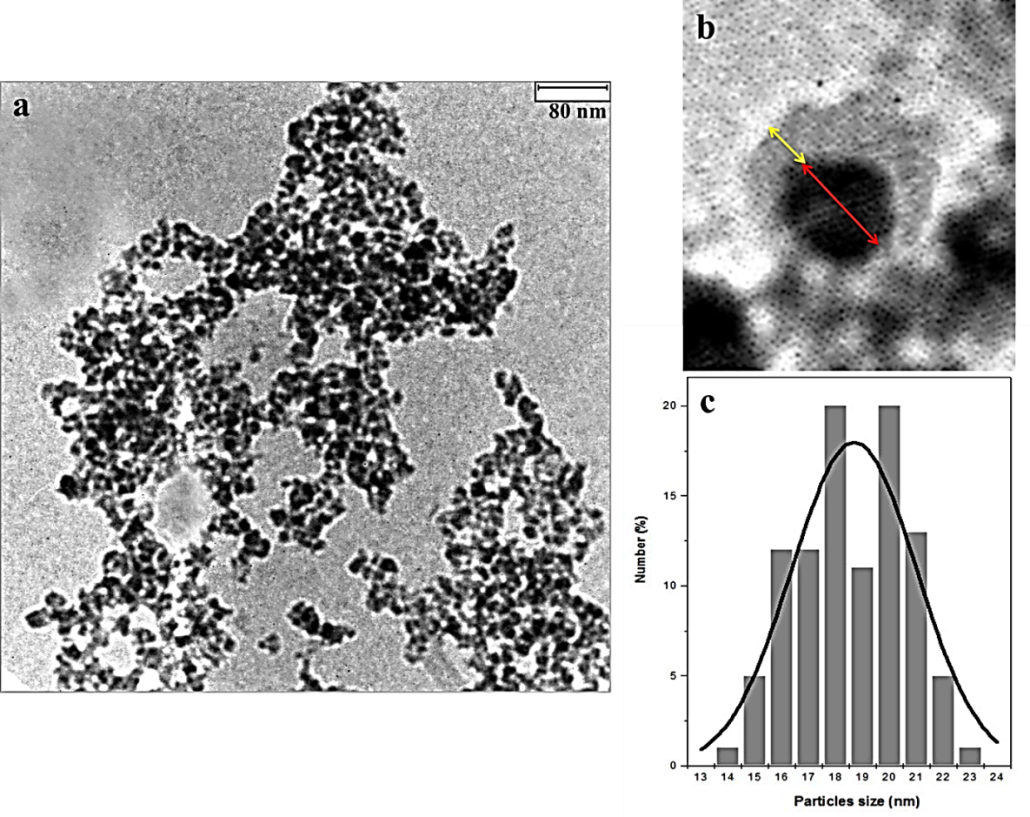
**Supporting information**



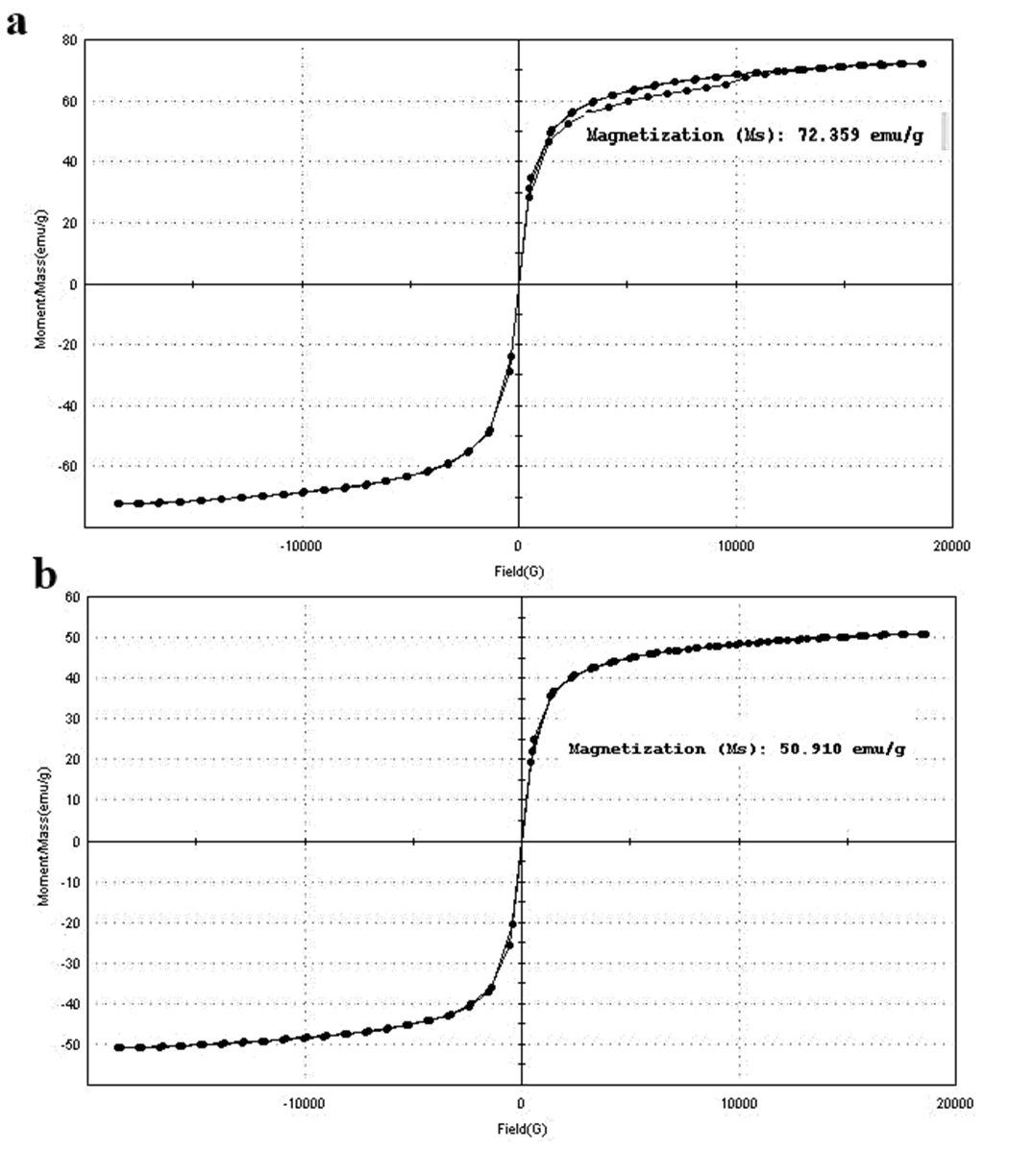
**Figure S1.** XRD patterns of: (a) Fe3O4 nanoparticles and (b) MMSNs together with the characteristic peaks of the standard JCPDS pattern.



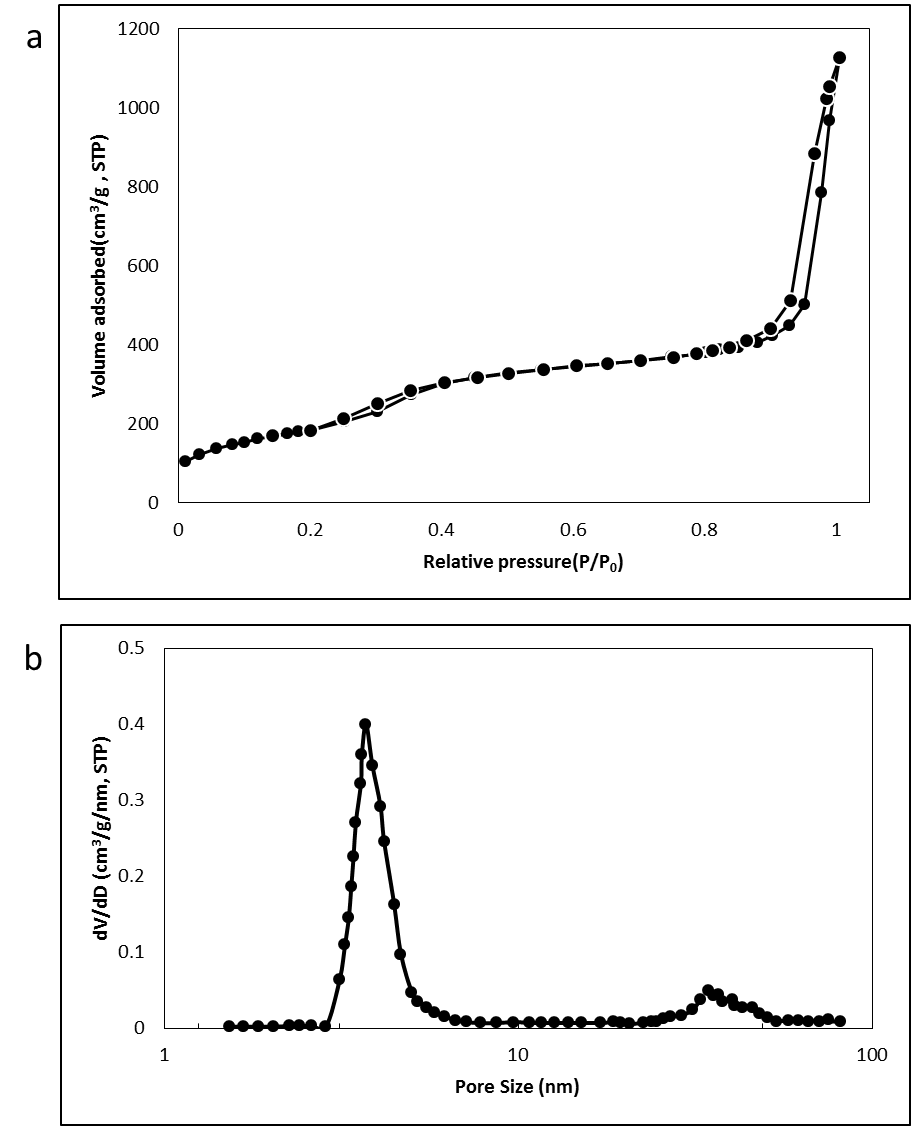
**Figure S2.** FTIR spectra of Fe3O4 (red), MMSNs before surfactant removal (blue), and MMSNs after surfactant removal (black).



**Figure S3.** TEM images together with size distribution histogram of MMSNs.



**Figure S4.** Hysteresis loops of the Fe3O4 nanoparticles (a) and MMSNs (b), recorded at a temperature of 300 K.



**Figure S5.** (a) N2 adsorption-desorption isotherms and (b) pore size distributions of

MMSNs.

**Figure S6.** Hemolysis assay of MMSNs. Every experimental condition was repeated three times in triplicate. All hemolysis data are presented as mean±SD.