

Rugby ball-shaped magnetic microcapsule for tumor hyperthermia

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Materials

Ferric chloride hexahydrate (>99.0%), oleic acid, ammonium dihydrogen phosphate, sodium chloride and N,N-dimethylformamide were supplied by Sigma-Aldrich (MO, USA). All reagents were of analytical grade and used as received from the suppliers without further purification.

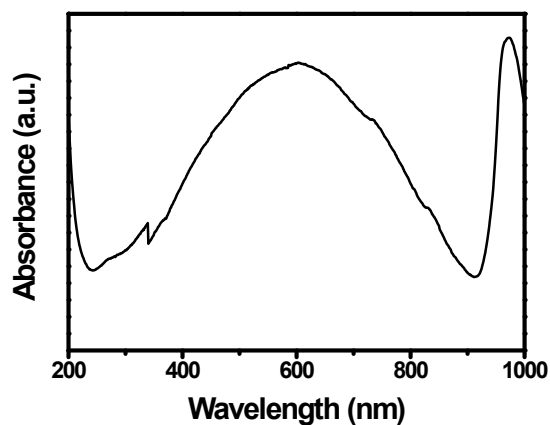


Figure S1. UV absorption spectra of superparamagnetic iron oxide.

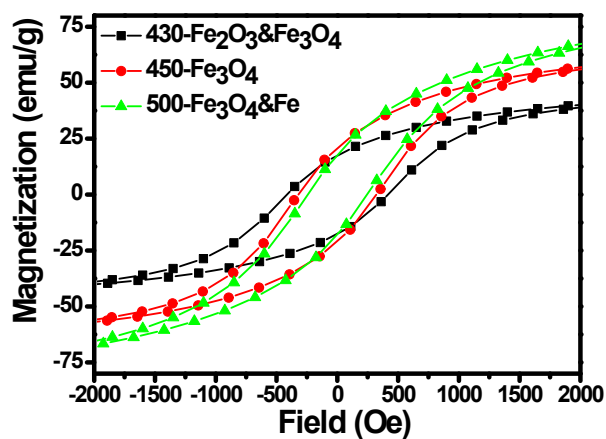


Figure S2. Hysteresis loop of the microcapsules at 300 K after the reduction with different temperatures (430°C, 450°C and 500°C).

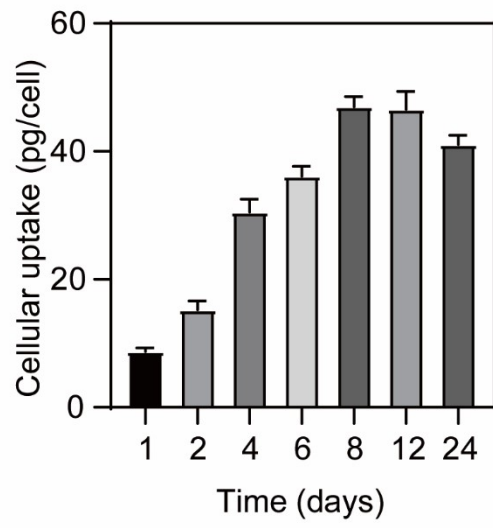


Figure S3. Quantitative study of cellular uptake efficiency of magnetic microcapsules after 1 h, 2 h, 4 h, 6 h, 8 h, 12 h, 24 h incubation, respectively.