Supporting Information for:

Novel Synthesis of Superparamagnetic Magnetite Nanoclusters for Biomedical Applications

Dipak Maity1#, Prashant Chandrasekharan2, Pallab Pradhan3, Kai-Hsiang Chuang4,5, Jun-Min Xue1, Si-Shen Feng2* and Jun Ding1*

1Department of Materials Science and Engineering, National University of Singapore, Singapore 117574
2Department of Chemical and Biomolecular Engineering, National University of Singapore, Singapore 117574
3Department of Biomedical Engineering, University of Texas at Austin, USA 78712
4Laboratory of Molecular Imaging, Singapore Bioimaging Consortium, A*STAR, Singapore 138667
5Clinical Imaging Research Center, A*STAR-National University of Singapore, Singapore 117456.
# Now at the Department of Chemistry (dipakmaity@gmail.com)

*Corresponding authors. E-mail: chefss@nus.edu.sg, msedingj@nus.edu.sg
**Figure S1** A and B: TEM images of self assembled of magnetite nanoclusters prepared at 0:1 TREG:TREA (v/v) ratio.

**Figure S2.** A. TEM image of dumbbell shaped magnetite nanoclusters prepared at 1:1 (v/v) TREG:DEA ratio. B. TEM image of self assembled of dumbbell shaped magnetite nanoclusters prepared at 0:1 TREG:DEA (v/v) ratio.
**Figure S3.** DLS measurements of the MNC-14 nanoclusters suspended in fetal bovine serum (100% FBS) **A.** particle size histograms measured at 0 h and **B.** particle size variation up to 24 h.