SUPPLEMENTARY MATERIAL

Synthesis and phase-transfer of monodisperse iron oxide (Fe_3O_4) nano-cubes

Melissa R. Dewi, William M. Skinner, and Thomas Nann*

Ian Wark Research Institute, University of South Australia, Mawson Lakes Blvd, Adelaide, SA 5095, Australia. *Email: thomas.nann@unisa.edu.au



Figure S1. The size

distribution by number of as-synthesised nano-cubes (A), after NOBF₄ treatment (B) and after DMSA/DMSO - citric acid treatment (C).



Figure S2. The size distribution by intensity of as-synthesised nano-cubes (A), after NOBF₄ treatment (B) and after DMSA/DMSO - citric acid treatment (C).



Figure S3. Zero field cooling/field cooling (ZFC/FC) measurements of spherical nanoparticles (A) and nano-cubes (B) before ligand exchange. The "bump" observed in figure B is most likely caused by inhomogeneities of the sample.



Figure S4: Histogram of the nano-cubes' size measured by TEM. Average edge length: 11.90 ± 1.2 nm. Polydispersity: 10.1 %.