nanomaterials

MDPI

Supplementary Materials

Aminodextran Coated $CoFe_2O_4$ Nanoparticles for Combined Magnetic Resonance Imaging and Hyperthermia

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2.5.7. Particle size and morphology analysis

SEM was made with a Hitachi S800 FEG microscope at the "Centre Technologique des Microstructures" (CTμ) at the University of Lyon (Villeurbanne, France). An aqueous suspension of particles was diluted, poured, and dried on a flat steel holder, at room temperature. Finally, samples were sputtered with copper under vacuum. SEM images of the samples were obtained at 15 kV (accelerating voltage).

3.1. XRD Analysis

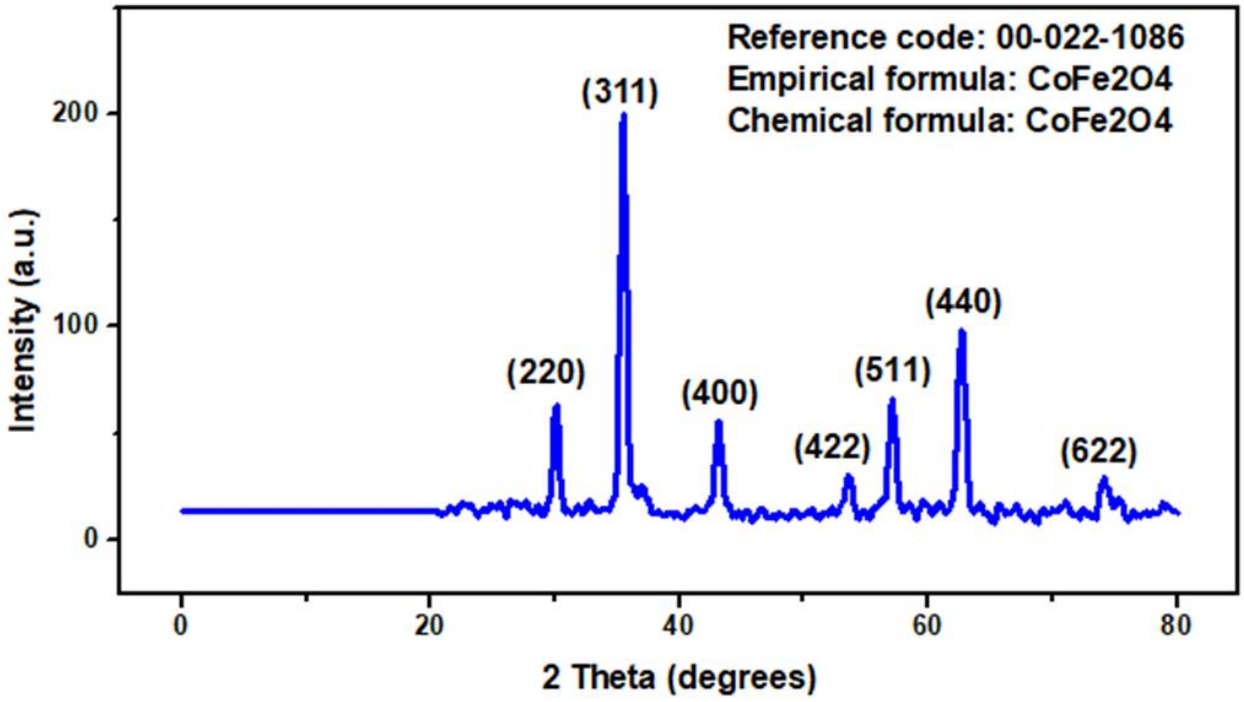

Figure S1. XRD spectra of uncoated cobalt ferrite nanoparticles (Sample 1).

3.2.Conductometric Analysis of AMD

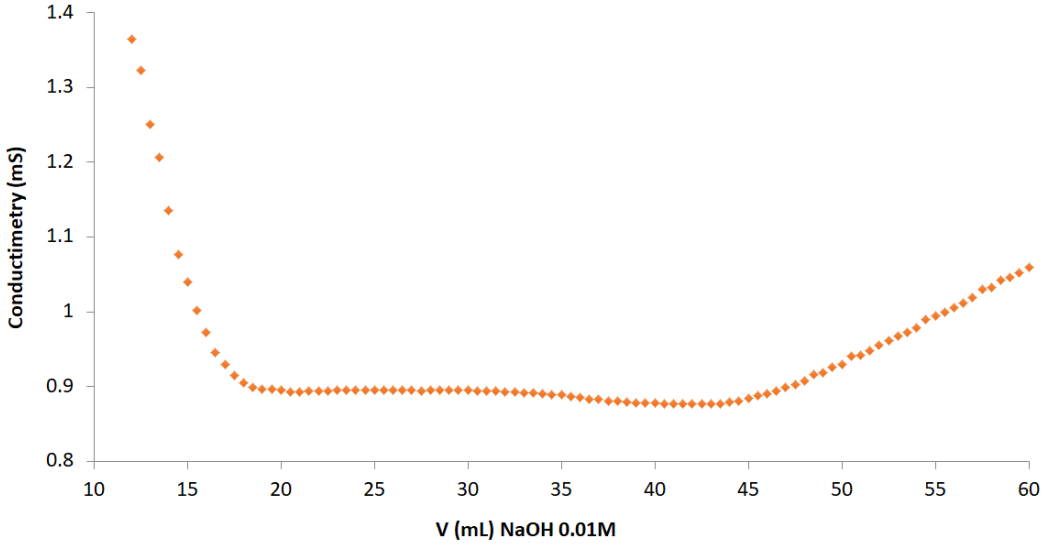

Figure S2. Conductometric titration curve of the amino groups of aminodextran.

3.5. Size and surface morphology

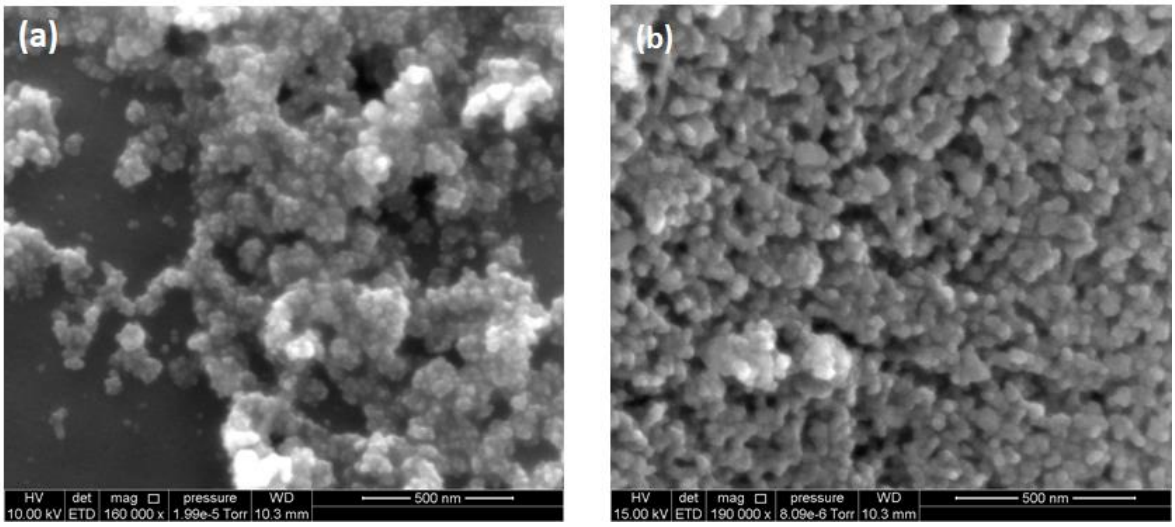

Figure S3. SEM images of coated and uncoated nanoparticles. (a) Sample 1 (b) Sample 4

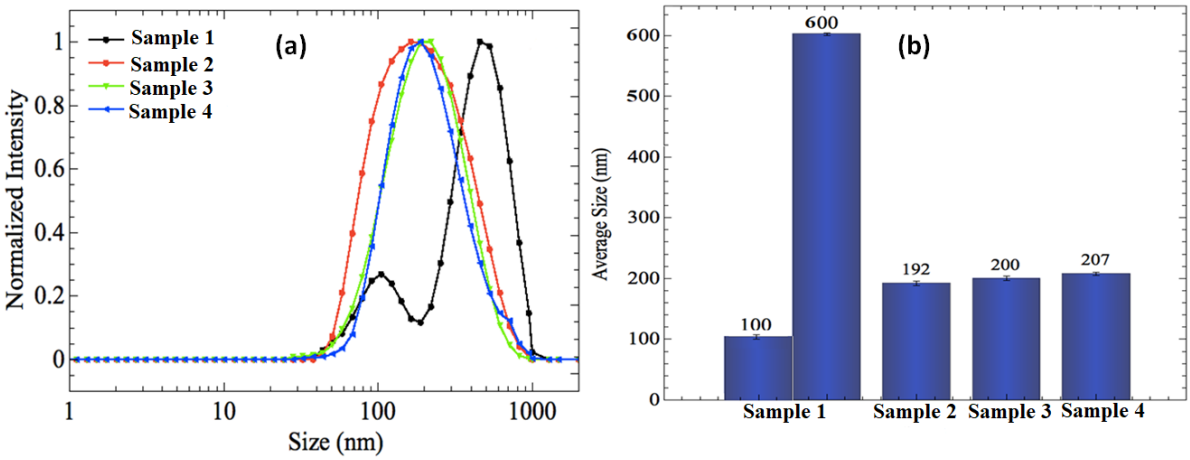

Figure S4. (a) Hydrodynamic size distribution profiles of the synthesized coated and uncoated nanoparticles and (b) Average hydrodynamic size of nanoparticles (Sample 1, 2, 3, and 4) based on intensity weighted data.