

SUPPORTING INFORMATION

Amorphous tunable-size Co-B magnetic nanoparticles from the cobalt-catalyzed NaBH_4 Hydrolysis

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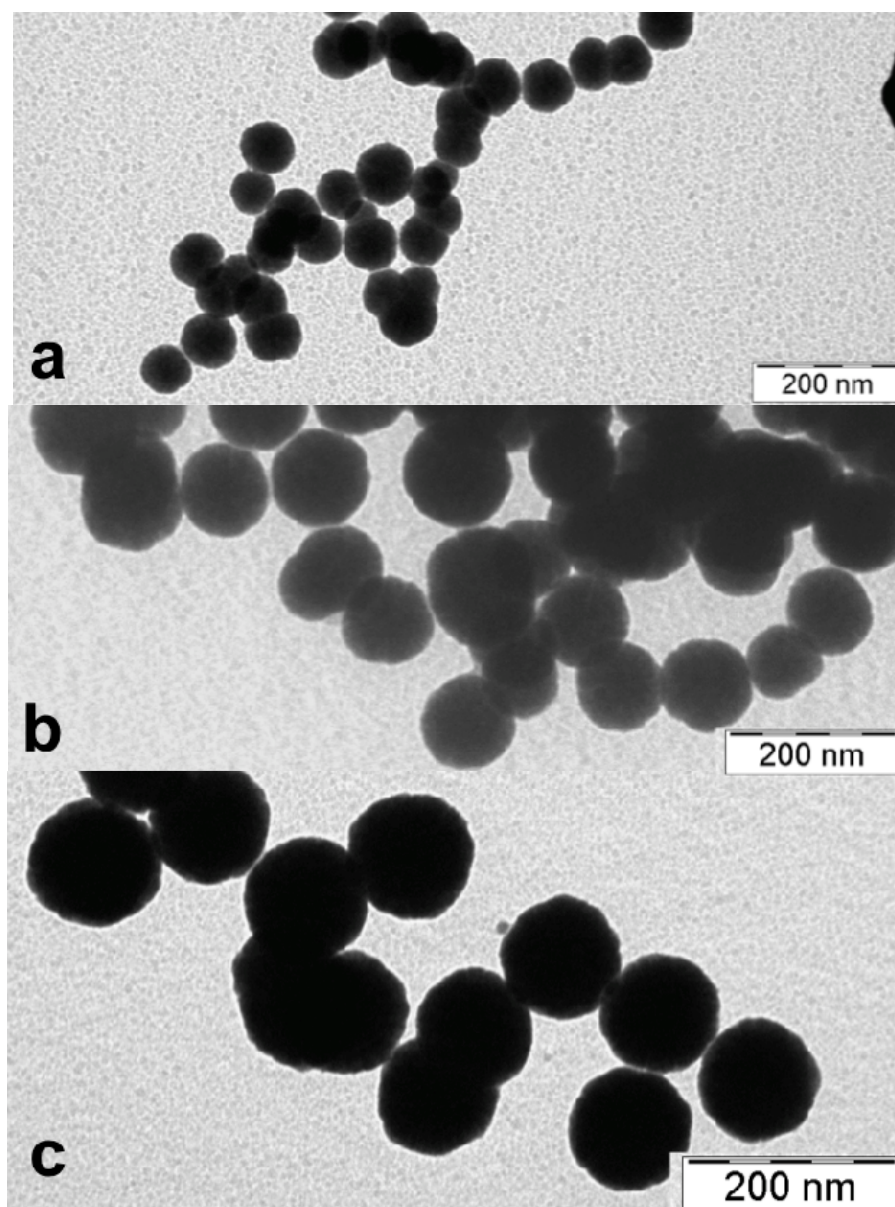


Fig. S1. Citric acid concentrations of 6×10^{-5} , 5×10^{-5} and 4×10^{-5} M permit to synthesize different examples of silica-coated cobalt-boron nanoparticles with average diameters of 71.5 ± 12 nm, 92.0 ± 15 nm and 120.8 ± 10 nm, respectively.

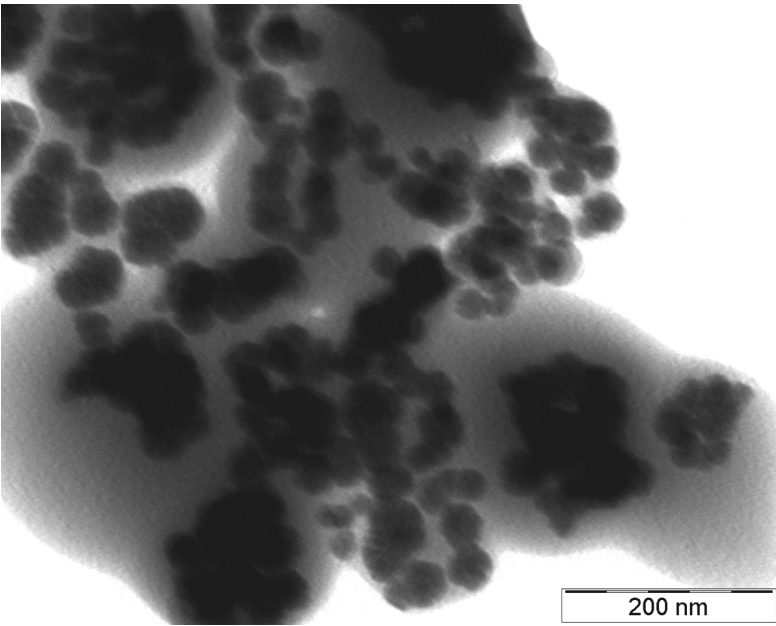


Fig. S2. Aggregates of cobalt-boron embedded in silica as a result of using during the synthetic process a [citric acid]/[Co²⁺] ratio out of the optimized range from 0.05 to 0.25.

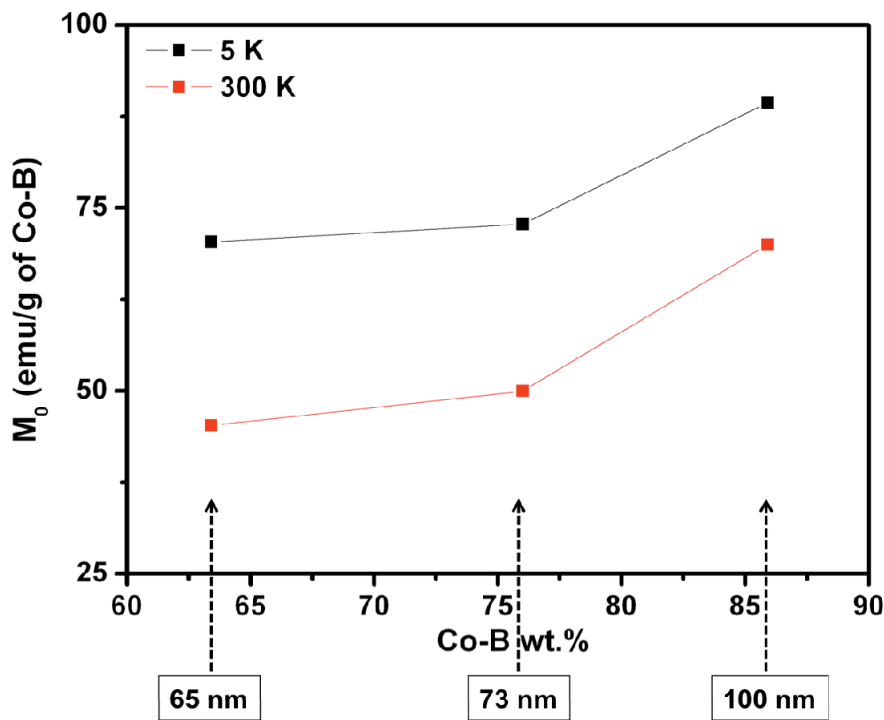


Fig. S3. Saturation magnetization values of silica-coated Co-B nanoparticles as a function of the magnetic material wt.% at 5 and 300 K.