**SUPPORTING INFORMATION**

**Amorphous tunable-size Co-B magnetic nanoparticles from the cobalt-catalyzed NaBH₄ Hydrolysis**

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Fig. S1. Citric acid concentrations of $6 \times 10^{-5}$, $5 \times 10^{-5}$ and $4 \times 10^{-5}$ M permit to synthesize different examples of silica-coated cobalt-boron nanoparticles with average diameters of $71.5 \pm 12$ nm, $92.0 \pm 15$ nm and $120.8 \pm 10$ nm, respectively.
Fig. S2. Aggregates of cobalt-boron embedded in silica as a result of using during the synthetic process a [citric acid]/[Co\(^{2+}\)] 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.