

*Supporting Information for*

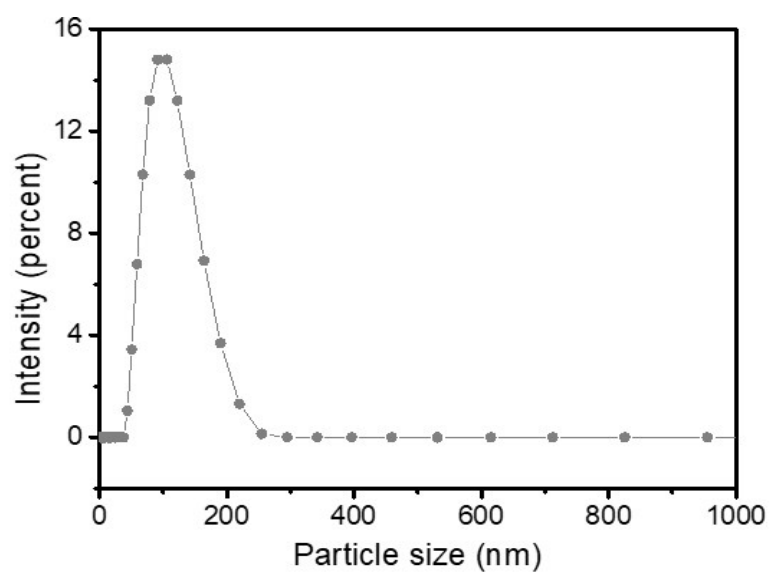
**Efficient synthesis of riboflavin-imprinted magnetic nanoparticles by boronate affinity-based surface imprinting for the selective recognition of riboflavin**

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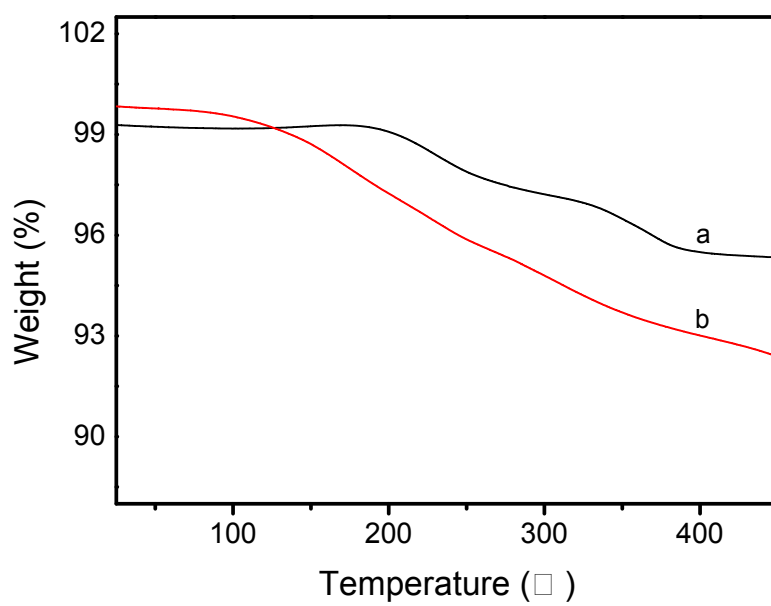
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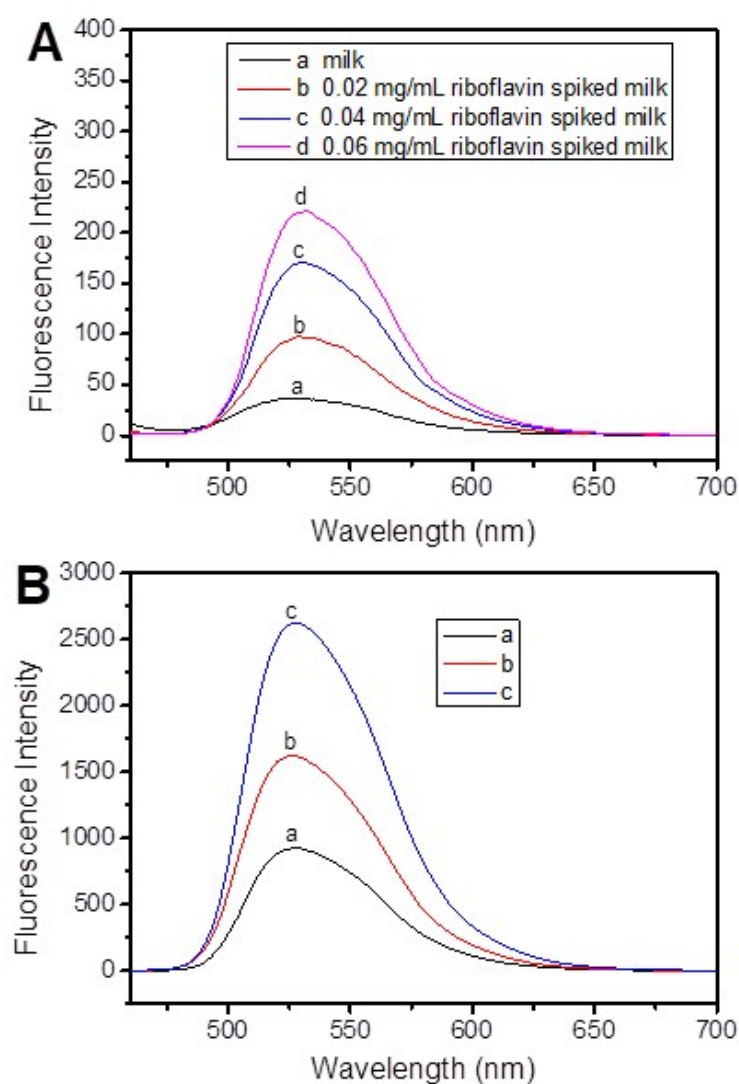
## Supporting Figures



**Fig. S1** The particle size characterization of Fe<sub>3</sub>O<sub>4</sub>@MIPs by dynamic light scattering.



**Fig. S2** TGA curves of magnetic particles: (a) Fe<sub>3</sub>O<sub>4</sub>@AA and (b) Fe<sub>3</sub>O<sub>4</sub>@MIPs.



**Fig. S3** A) Fluorescence spectra for milk (a), milk spiked with 0.02 mg/mL(b), 0.04 mg/mL (c) and 0.06 mg/mL (d) riboflavin. B) Fluorescence spectra for extracted from 0.02 mg/mL riboflavin spiked milk (a), 0.04 mg/mL riboflavin spiked milk (b) and 0.06 mg/mL riboflavin spiked milk (c) by the riboflavin-imprinted MNPs.