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## **Supplementary Information**

## Synthesis and characterization of poly(styrene-*block*-acrylic acid)/Fe<sub>3</sub>O<sub>4</sub> magnetic nanocomposite using reversible addition–fragmentation chain transfer polymerization

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**Figure S1.** The <sup>1</sup>H NMR spectrum of 4-cyano-4-[(phenylcarbonothioyl) sulfanyl] pentatonic

acid.



**Figure S2.** The <sup>1</sup>H NMR spectra of PSt–CTA (a) and PSt-*b*-PAA (b).