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Supplementary Material

Colorimetric Assay for Al³⁺ Based on Alizarin Red S-functionalized Silver Nanoparticles

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Fig.S1 Intensity ratio of A_{600nm}/A_{395nm} of ARS-AgNPs towards competing ions (color bar) and competing ions with Al³⁺ (gray bar).



Fig.S2 Effect of NaCl concentration on the stability of ARS-AgNPs and ARS-AgNPs+Al³⁺.



Fig.S3 Absorption spectrum of ARS $(1.0 \times 10^{-4} \text{ M})$ in pH 4.0 aqueous solution upon addition of various metal ions $(1.0 \times 10^{-4} \text{ M})$ like Al³⁺, Ag⁺, Ba²⁺, Ca²⁺, Cd²⁺, Cu²⁺, K⁺, Mg²⁺, Mn²⁺, Ni²⁺, Pb²⁺ and Zn²⁺