Supplementary Material

Colorimetric Assay for Al^{3+} 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 Al^{3+} (gray bar).

Fig. S2 Effect of NaCl concentration on the stability of ARS-AgNPs and ARS-AgNPs+Al^{3+}.
Fig. S3 Absorption spectrum of ARS (1.0 × 10^{-4} M) in pH 4.0 aqueous solution upon addition of various metal ions (1.0 × 10^{-4} M) like Al^{3+}, Ag^{+}, Ba^{2+}, Ca^{2+}, Cd^{2+}, Cu^{2+}, K^{+}, Mg^{2+}, Mn^{2+}, Ni^{2+}, Pb^{2+} and Zn^{2+}