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Supporting information

Synthesis of Fe₃O₄ nanobeads functionalized 8-hydroxyquinoline sulfonic acid supported with ion imprinted biopolymer as a recognition site for Al³⁺ ions: estimation in human serum and water samples

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Figures

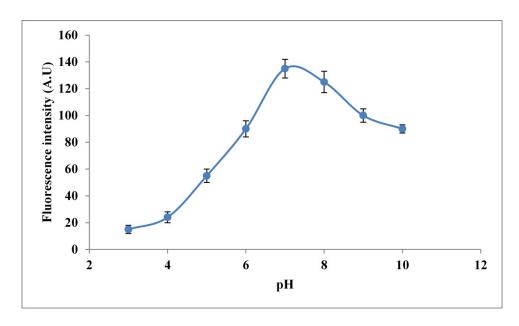


Figure 1S. Effect of pH on fluorescence intensity of the formed complex using MGIIBP. Error bars, n=5. Al³⁺ concentration was 1.9×10^{-8} M.

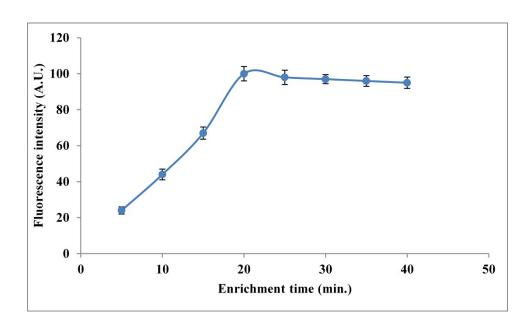


Figure 2S. Effect of enrichment-complexation time on fluorescence intensity of the formed complex using MGIIBP. Error bars, n=5. Al $^{3+}$ concentration was 1.9×10^{-8} M.

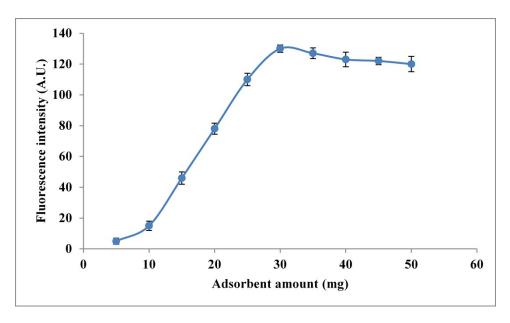


Figure 3S. Effect of adsorbent amount on fluorescence intensity of the formed complex using MGIIBP Error bars, n=5. Al³⁺ concentration was 1.9×10^{-8} M.

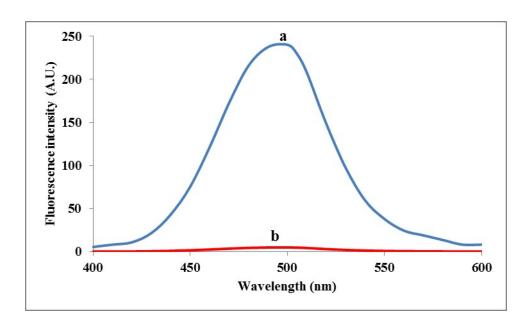


Figure 4S. Effect of time on removal of Al³⁺ ion from MGINIBP by NaF after (a) zero hrs and (b) 12 hrs.

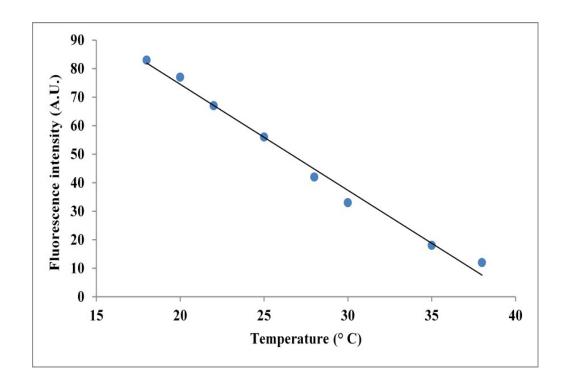


Figure 5S. Effect of temperature on fluorescence intensity of the formed complex using MGIIBP.Al $^{3+}$ concentration was 1.9×10^{-8} M.