Supporting Information

Specific detection of potassium ion in serum by a modified G-quadruplex method

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Table S1. Comparison between method in this study and other existing methods based on G-quadruplex.

From properties of several different methods, we can see that the dual-labeled modified G-quadruplex method we presented has much better selectivity and linearity even in real serum containing all other metal ions together.

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IV. Method presented in our study.
S1. The effect of pH and temperature to the modified dual-labeled G-quadruplex system.

Figure S1. (a) Fluorescence spectra of the dual labeled TBA when pH changed; (b) Corresponding plot of R vs pH and linear fit; (c) Fluorescence spectra of the dual labeled TBA when temperature changed; (d) Corresponding plot of R vs Temperature and linear fit. Error bars show standard deviation of triplicate measurements.