Electronic Supplementary Information (ESI)

Aptamer-based fluorescent detection of Ochratoxin A by quenching

of gold nanoparticles

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Fig. S1 TEM images of AuNPs.

(a) AuNPs+NaCl (b) AuNPs+FAM-Apt+NaCl (c) AuNPs+FAM-Apt+OTA+NaCl.



Fig. S2 Effects of different concentration of NaCl on fluorescence. The final concentrations of NaCl were 0, 5, 10, 12, 17, 25 mM, respectively. Experimental conditions: AuNPs, 17 nM; FAM-Apt, 0.5 μ M; OTA, 1 μ M.



Fig. S3 Effects of concentration of AuNPs on fluorescence. Experimental conditions: AuNPs, 17 nM; FAM-Apt, 0.5 μ M.



Fig. S4 Effects of different concentrations of aptamer on A_{530} of AuNPs. Experimental conditions: AuNPs, 17 nM; NaCl, 17 mM.



Fig. S5 Effects of reaction time of OTA-aptamer on fluorescence. Experimental conditions: AuNPs, 17 nM; FAM-Apt, 0.5 μ M; OTA, 1 μ M; NaCl, 17 mM.



Fig. S6 Effects of reaction time of AuNPs-NaCl on fluorescence. Experimental conditions: AuNPs, 17 nM; FAM-Apt, 0.5 μ M; OTA, 1 μ M; NaCl, 17 mM.



Fig. S7 Effects of pH on fluorescence. Experimental conditions: AuNPs, 17 nM; FAM-Apt, 0.5µM; OTA, 1µM; NaCl, 17 mM.