Ultrasensitive aptamer biosensor for arsenic(III) detection in aqueous solution based on surfactant-induced aggregation of gold nanoparticles

Yuangen Wu,†a,b Le Liu,†a Shenshan Zhan,a Faze Wang,a and Pei Zhou*a

† These authors contributed equally to this work.

Electronic Supplementary Material (ESI) for Analyst
This journal is © The Royal Society of Chemistry 2012
**Supplementary figures:**

**Fig. S1.** Effect of CTAB concentrations on As(III) detection based on the colorimetric (a) and RS (b) assay. The concentration of Ars-3 aptamer was 7.5 nM.
**Fig. S2** Effect of Ars-3 aptamer concentrations on As(III) detection based on the colorimetric (a) and RS (b) assay. The concentration of CTAB was 1.1 M.

**Fig. S3** Kinetics of the A increases in the sensing solutions treated with different concentrations of As(III).