Electronic Supporting Information

Sensitive and selective colorimetric probe for fluoride detection based on interaction between 3-aminophenylboronic acid and dithiobis(succinimidylpropionate) modified gold nanoparticles

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**Fig. S1** UV-vis absorption spectra of DSP@AuNP under different concentrations of 3-aminophenylboronic acid (APBA) from 0.0 to 15.0 µM. The concentration of fluoride is 1500 µM.

**Fig. S2** Zeta potential values of (a) APBA-DSP@AuNP, (b) APBA-DSP@AuNP with 250 µM fluoride, (c) APBA-DSP@AuNP with 2000 µM fluoride.
**Fig. S3** UV-vis absorption spectra of APBA-DSP@AuNP probe towards detection of fluoride in the range of 100-1000 µM in spiked tap water.