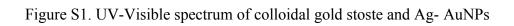
Electronic supplementary information (ESI)

Fluorescence quenching-based assay of bisphenol A by using functionalized silica nanoparticles and nanogold on competitive immunoassay

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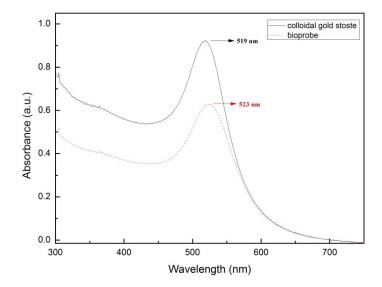


Fig. S2. TEM images of the coating antigen-AuNPs

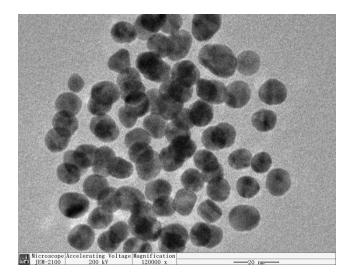


Fig. S3. SEM images of the dual-codified silica nanoparticles

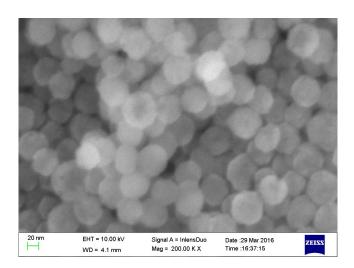


Figure S4.The absorbance of colloidal gold with different concentration of coating antigen from 0.4 mg/mL to 1.4 mg/mL at 580nm.

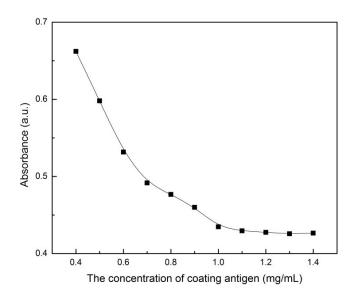


Figure S5. Fluorescence quenching efficiency with different content of DNA: e= (1- F_{DA}/F_D) × 100%, F_{DA} represent the fluorescence intensity of donor and accepter exist at the same time; F_D represent the fluorescence intensity of donor only.

