

Supplementary Information (ESI)

Use of mercaptophenylboronic acid functionalized gold nanoparticles in a sensitive and selective dynamic light scattering assay for glucose detection in serum

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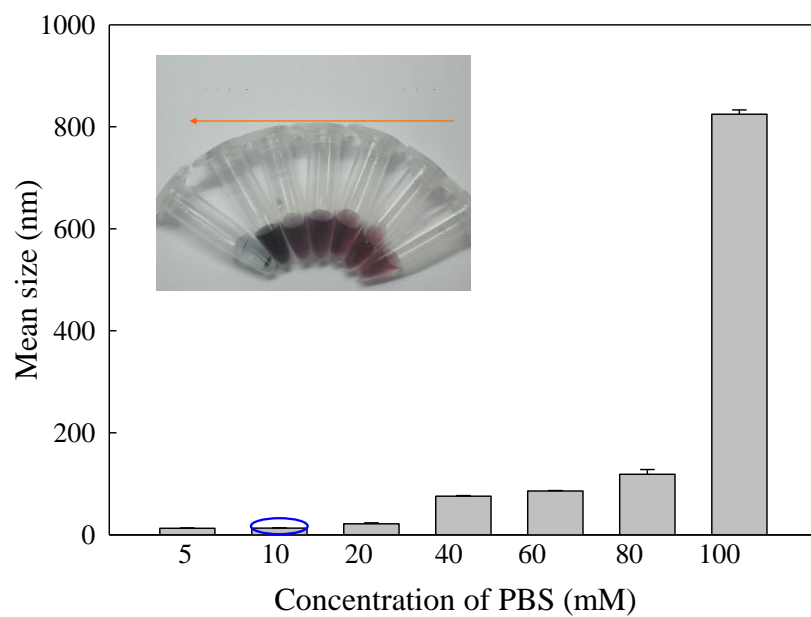


Fig. S1 The effect of ion concentration on the average diameters of MPBA-AuNPs.

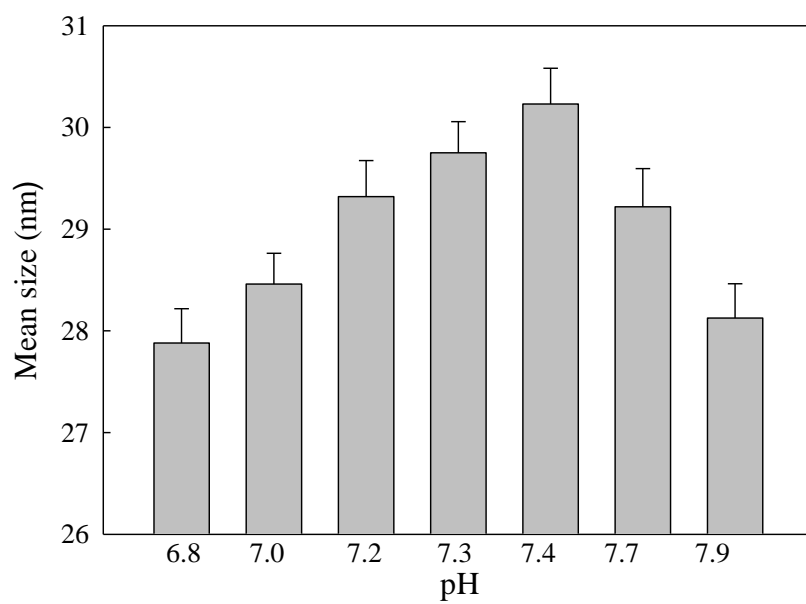


Fig. S2 The effect of pH in 10 mM PBS solution on the average diameters of MPBA-AuNPs.

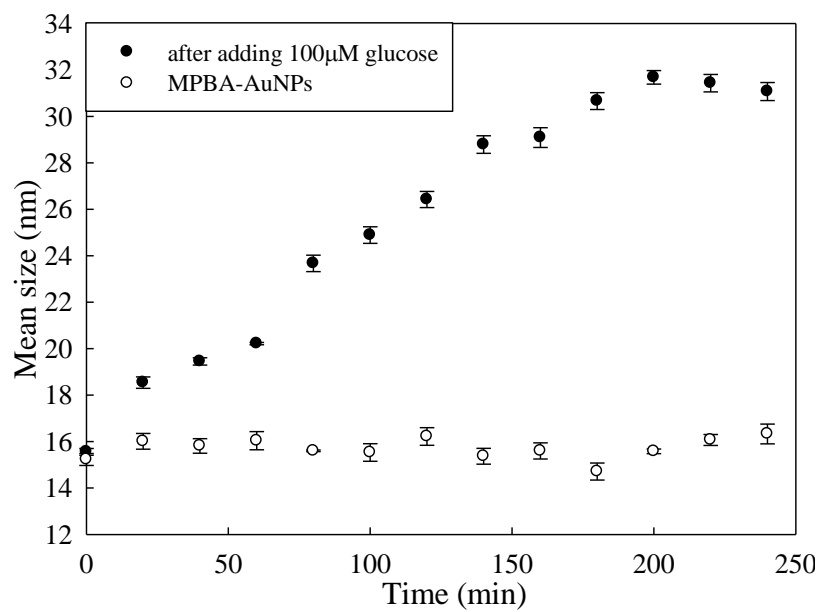


Fig. S3 The change of average diameters of particles corresponding to different reaction time. Concentration of glucose: 100 μ M; buffer: 10 mM PBS (pH = 7.4).

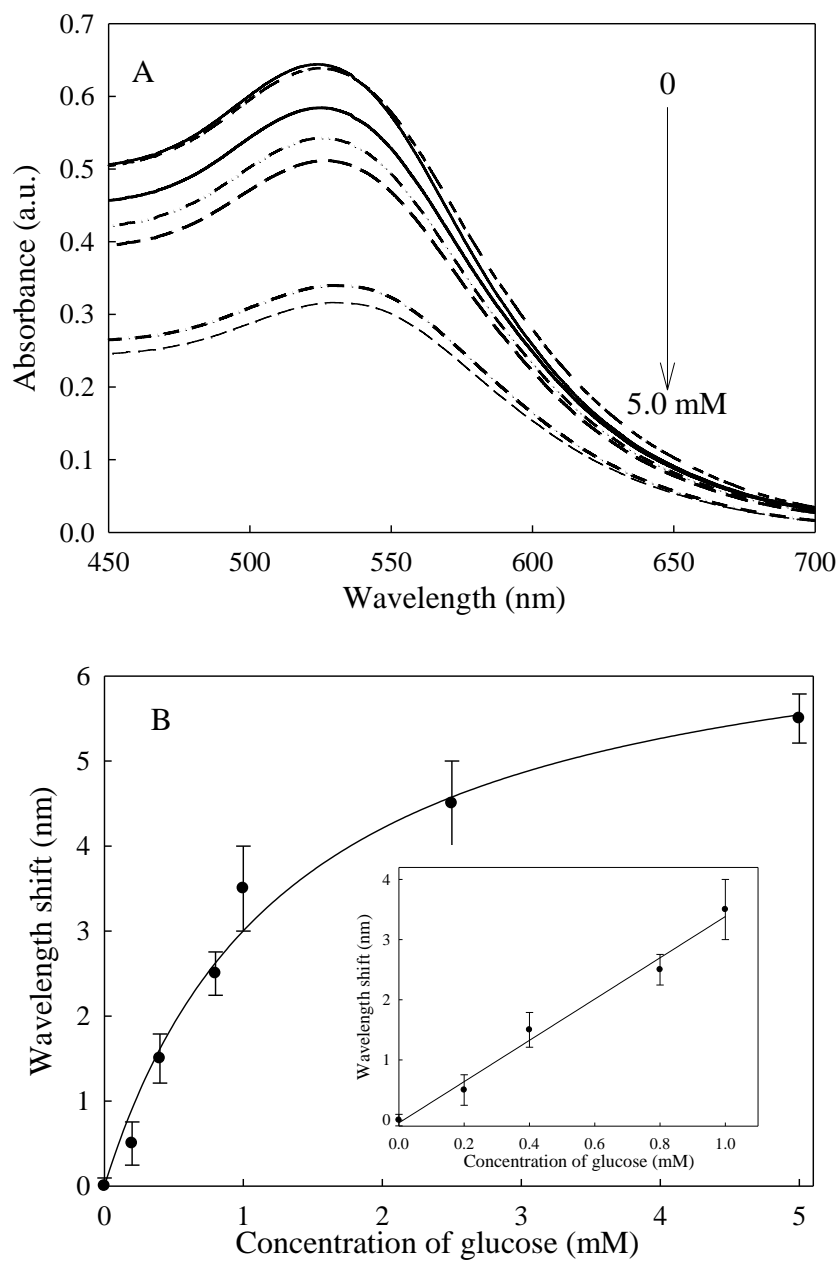


Fig. S4 (A) Absorbance spectra of MPBA-AuNPs solution before and after the addition of different concentration of glucose. (B) Quantification of glucose concentration using UV-Vis spectra.