Supplementary Material (ESI) for Analyst

Supporting information for

Chemiluminescence DNA Biosensor Based on Dual-Amplification of Thrombin and Thiocyanuric Acid-Gold Nanoparticle Network

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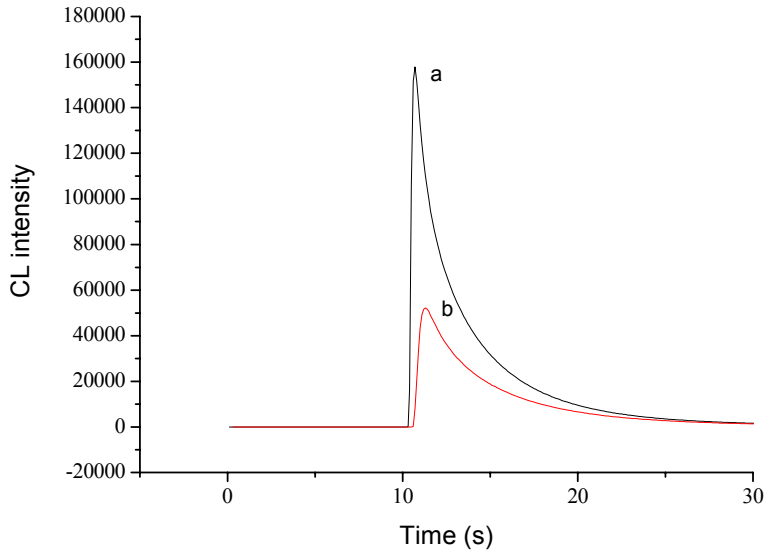

Figure S1 Kinetics of CL emission obtained with different sample injection sequences. Experimental conditions: 1.0×10^{-4} M luminol in 0.1 M NaOH/$NaHCO_3$ and 1.0×10^{-4} g mL^{-1} of Au^{3+}. (a) Luminol was injected and (b) Au^{3+} was injected

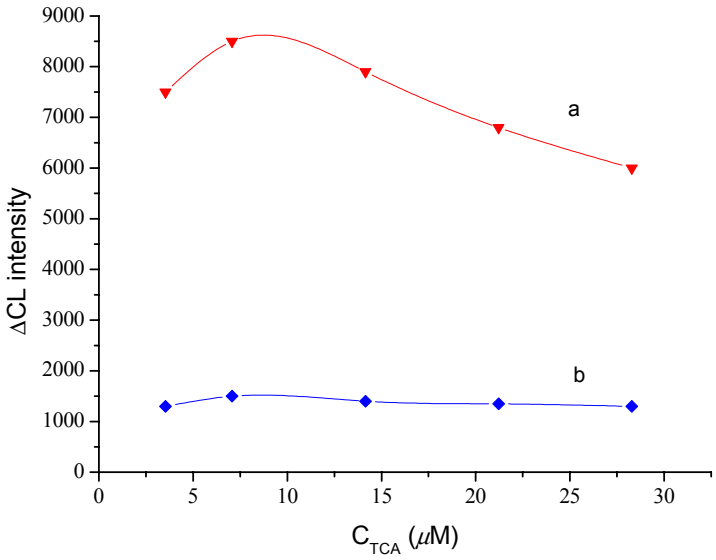

Figure S2 CL intensity versus the concentration of TCA. The concentrations for target DNA: (a) 3.0×10^{-10} M, and (b) 3.0×10^{-14} M

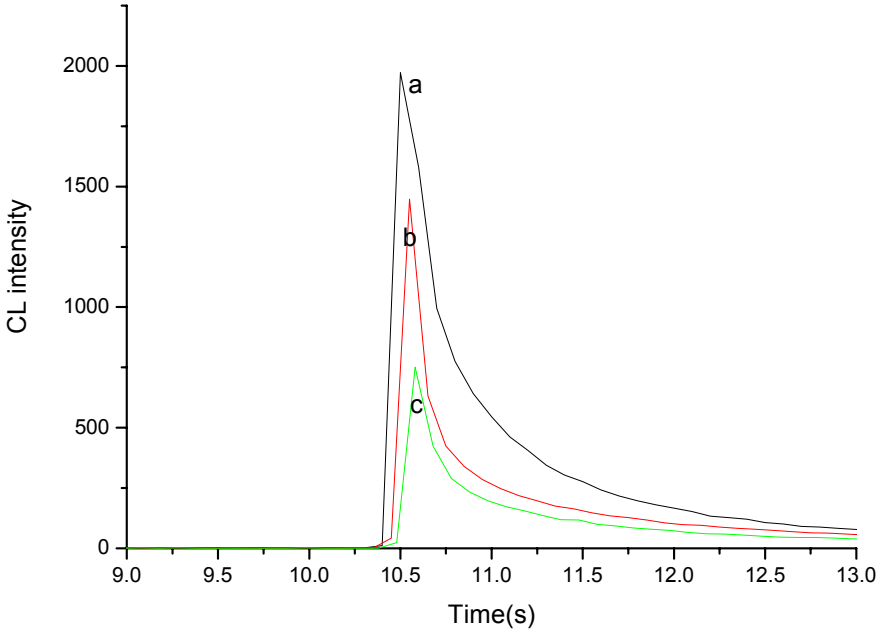

Figure S3 Kinetics of CL emission obtained with different sizes of AuNPs. The concentration of target DNA was 3.35×10^{-14} M. The diameters of AuNPs were: (a) 17 nm, (b) 10 nm, (c) 40 nm

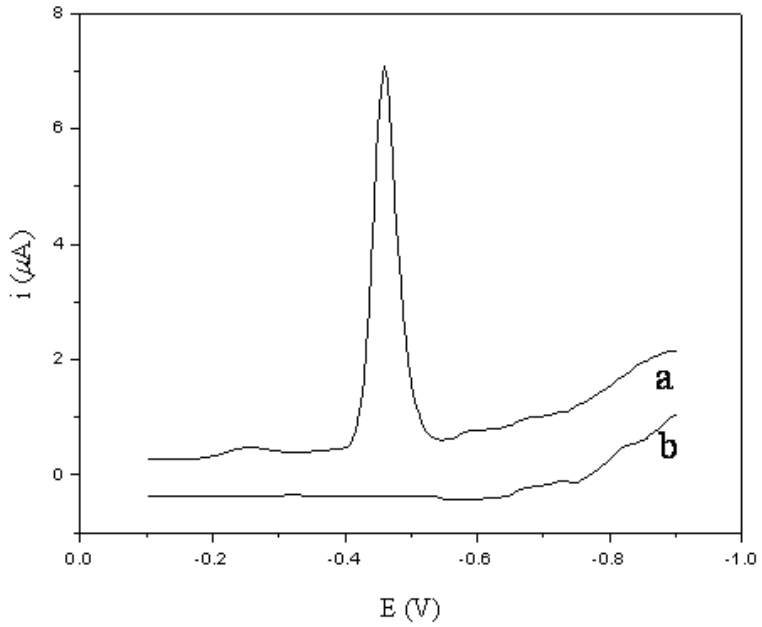

Figure S4 Anodic stripping voltammetry analysis of (a) standard Pb^{2+} solution and (b) the CL detection solution

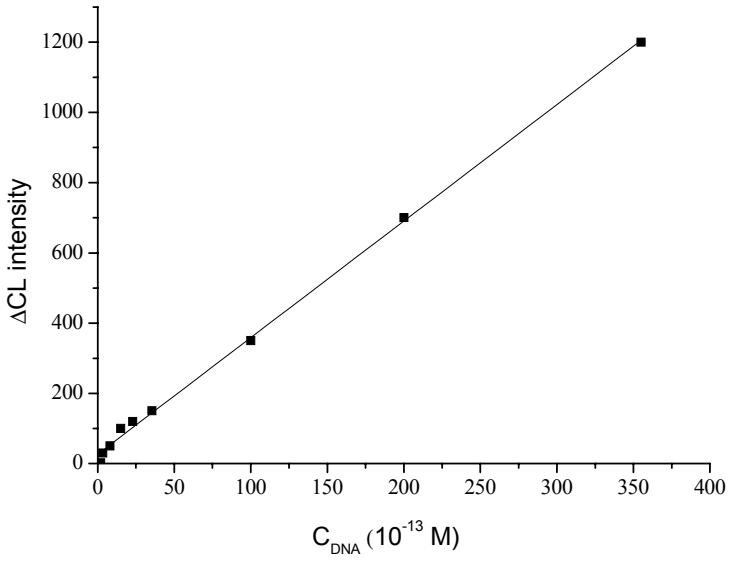

Figure S5 The calibration curve for the determination of target DNA without TCA amplification