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**Supplementary Information** 

Chemiluminescence method for determination of mercury (II)

ions by tuning the catalytic activity of gold nanoparticles with

ethylenediamine

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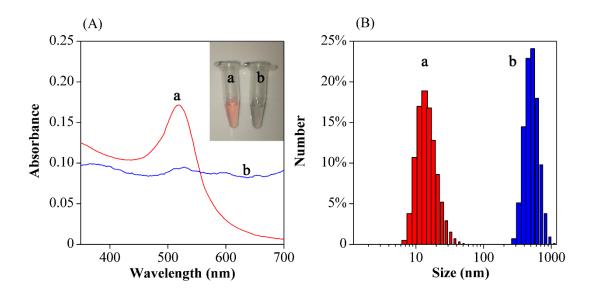
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**Fig. S1** (A) UV-vis absorption spectrum of the Au NPs in the absence of ethylenediamine (a) and in the presence of ethylenediamine (b). The inset shows the corresponding images. (B) DLS results of Au NPs in the absence of ethylenediamine (a) and in the presence of ethylenediamine (b). Experiment conditions: ethylenediamine,  $7.2 \mu M$ ; Au NPs, 1 nM.