

*Electronic Supplementary Information*

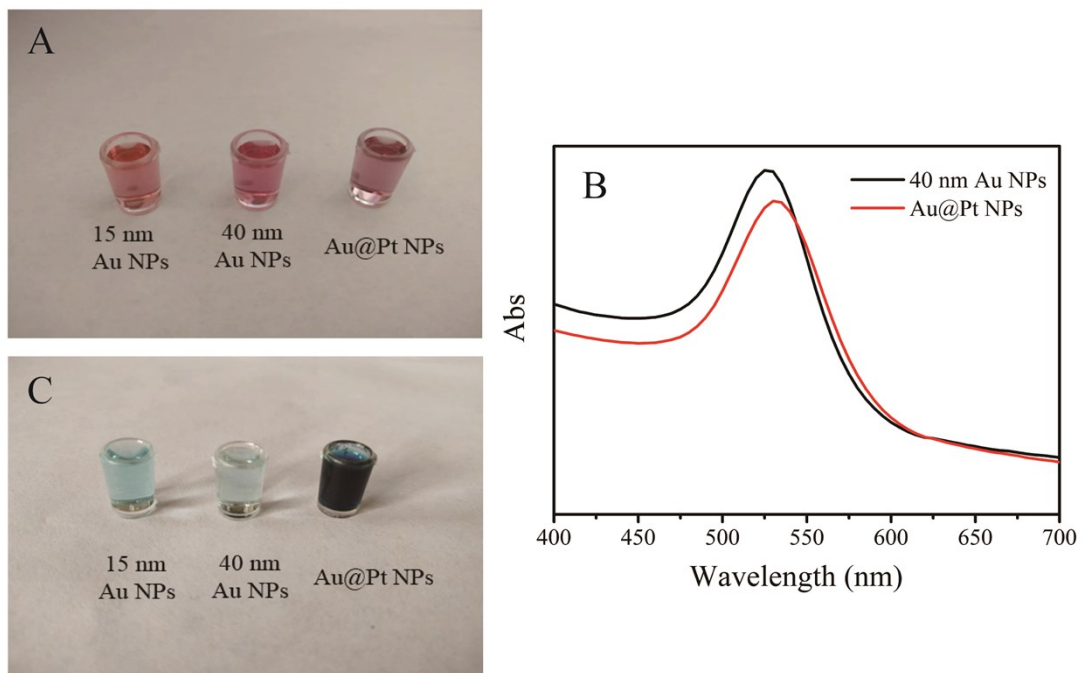
**Lateral flow strip for on-site detection of tobramycin based  
on dual-functional platinum-decorated gold nanoparticles**

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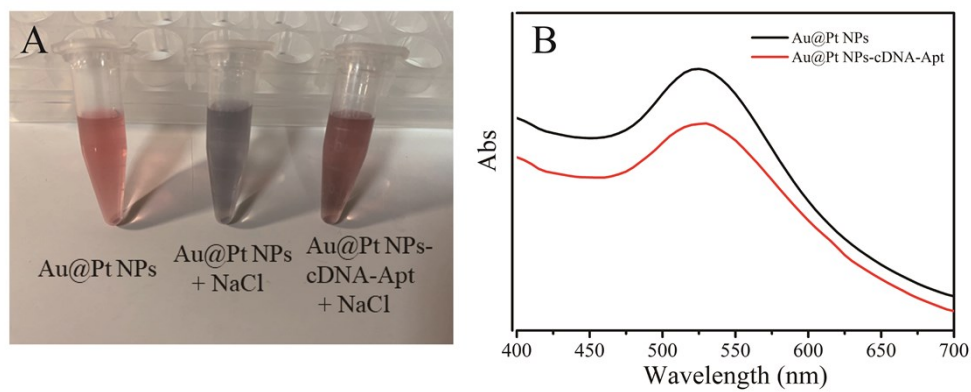
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**Fig. S1** Plasma and catalytic properties of AuNPs seeds and Au@Pt NPs. (A) Photo of different NPs in aqueous solution; (B) UV-Vis spectrum of Au@Pt NPs; (C) Photo after the catalytic reaction of different NPs.



**Fig. S2** Characterization of the Au@Pt NPs conjugates. (A) The color of Au@Pt NPs in NaCl before and after functional modification; (B) UV-Vis adsorption spectra of Au@Pt NPs and Au@Pt NPs-cDNA-Apt.