

Supporting Information

Colorimetric Aptamers Based on Assay for the Determination of Enrofloxacin by Triggering Aggregation of Gold Nanoparticles

Wei-Chuang Kong¹, Chen-Chen Li¹, Ai-Hong Zhang¹, Xin-Long Li¹,
Qian-Rui Gong¹, Bing-Tan Jin¹, Xiao-Juan Jia², Xu-Ying Liu^{1,*}, Yan-Fei
Kang^{1,*}

¹ College of Laboratory Medicine, Institute of Pathogen Biology and Immunology, Hebei Key Laboratory of Neuropharmacology, Hebei Key Laboratory of Quality & Safety Analysis-Testing for Agro-Products and Food and Zhang Jiakou Key Laboratory of Organic Light Functional Materials, Hebei North University, Zhangjiakou, 075000, Hebei Province, China.

² CAS Key Laboratory of Pathogenic Microbiology and Immunology, Institute of Microbiology, Chinese Academy of Sciences, Beijing 100101, China.

These authors contributed equally: Wei-Chuang Kong and Chen-Chen Li;

*Corresponding author, E-mail addresses: liuxuying0045@163.com (X.-Y. Liu); kangyanfei172@163.com (Y.-F. Kang).

Supporting Information

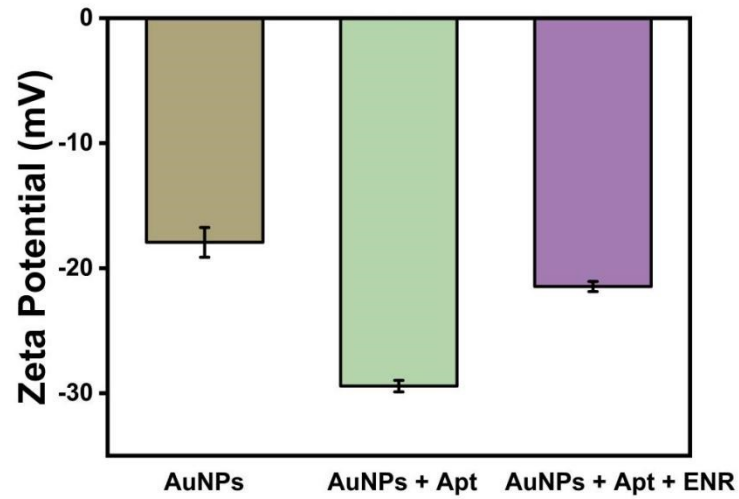


Fig. S1 The surface ζ -potentials of bare AuNPs, AuNPs-apptamer without and with ENR (n=3)

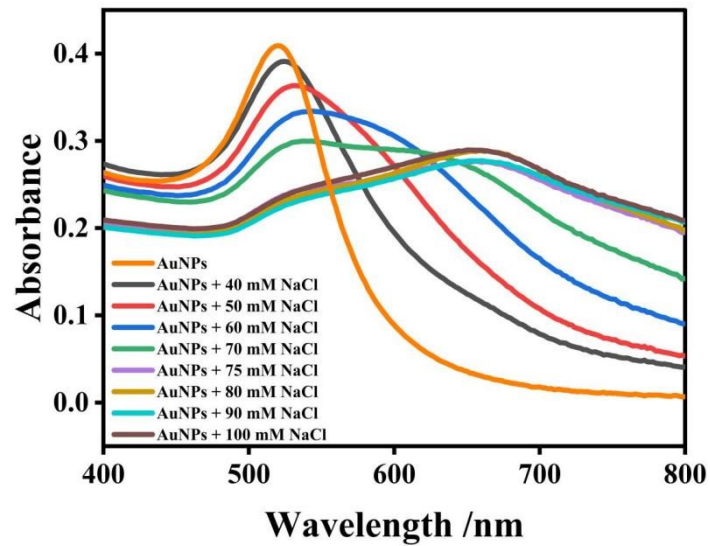


Fig. S2 The UV-vis spectra of AuNPs in different concentration of NaCl.

Supporting Information

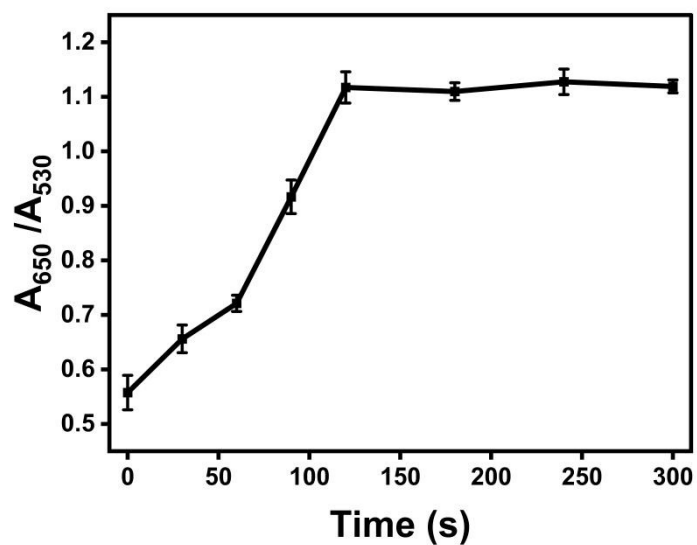


Fig. S3 The relationship of the absorbance ratio (A_{650}/A_{530}) of AuNP solution with the incubation time after adding NaCl to the AuNPs solution. ($n=3$)

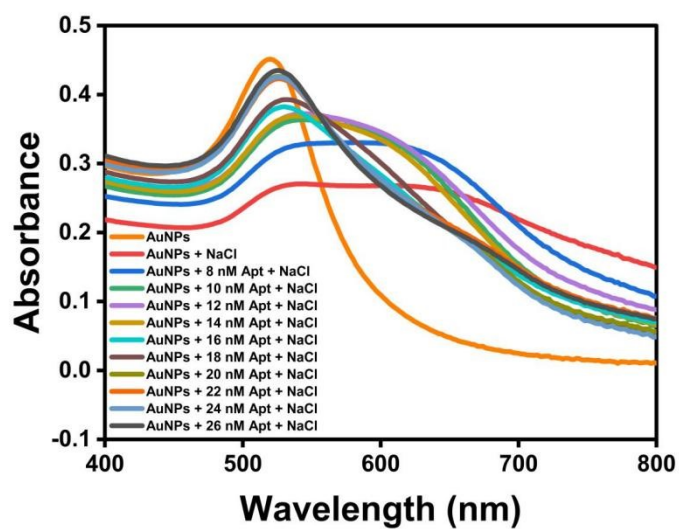


Fig. S4 The UV-vis spectra of AuNPs in different concentration of aptamer containing NaCl.

Supporting Information

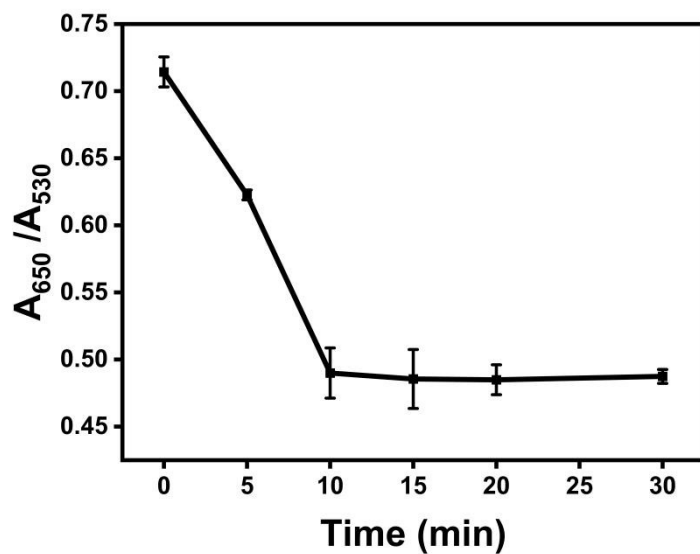


Fig. S5 The relationship of the absorbance ratio (A_{650}/A_{530}) of AuNPs solution with the incubation time after adding NaCl to the AuNPs solution containing aptamer. (n=3)

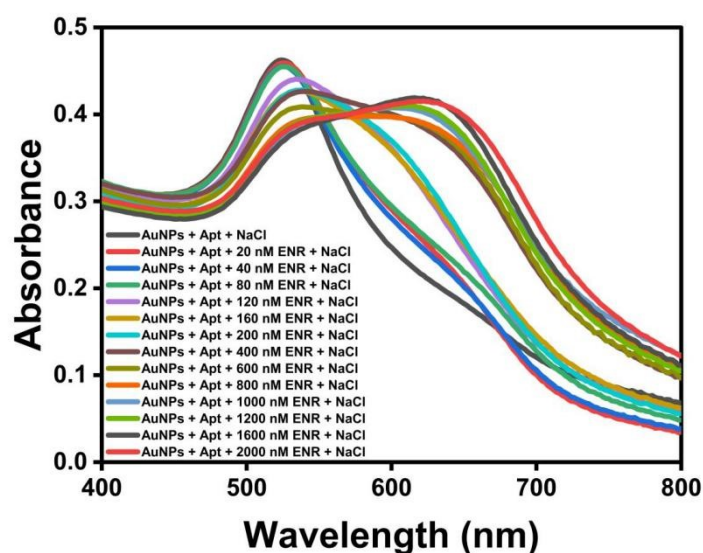


Fig. S6 UV-vis absorption spectra of AuNPs solutions after addition of different concentrations of ENR.

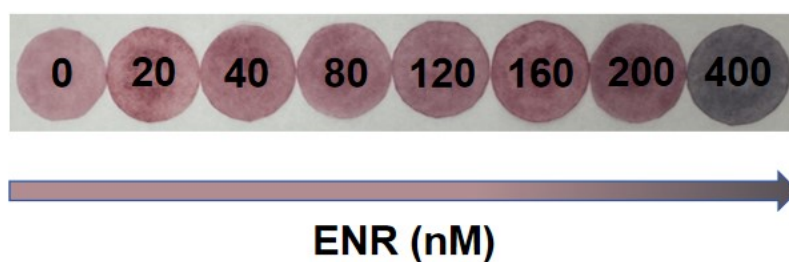


Fig. S7 The photographs of response of colorimetric test paper in response to different concentration of ENR.