

Supplementary material

Simultaneous determination of dopamine and ascorbic acid using β -Cyclodextrin/Au nanoparticles/Graphene-modified electrode

Zhu Chang^a, Yanli Zhou^{a,b,*}, Lijing Hao, Yuanqiang Hao^a, Xu Zhu^a, Maotian Xu^{a,b,*}

^a *Henan Key Laboratory of Biomolecular Recognition and Sensing, College of Chemistry and Chemical Engineering, Shangqiu Normal University, Shangqiu 476000 (P. R. China).*

^b *College of Chemistry and Molecular Engineering, Zhengzhou University, Zhengzhou 450001, China*

* Corresponding authors: Fax/Tel.: +86 370 3109178

E-mail addresses: zhouyanli@sqnc.edu.cn (Y. Zhou), xumaotian@163.com (M. T. Xu).

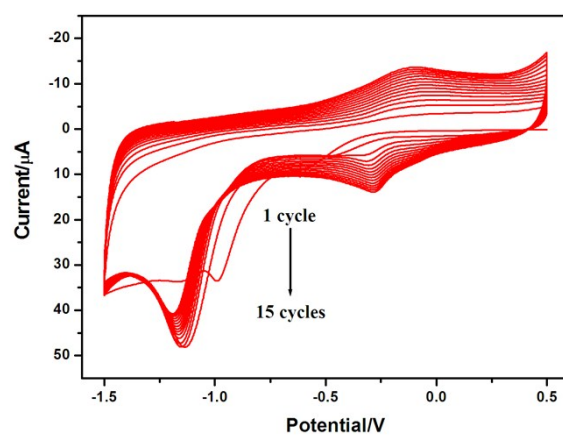


Fig. S1. Multisweep CVs of a GO/GCE in PBS (pH 7.0) containing 0.1 M KCl at a scan rate of 50 mV s^{-1} .

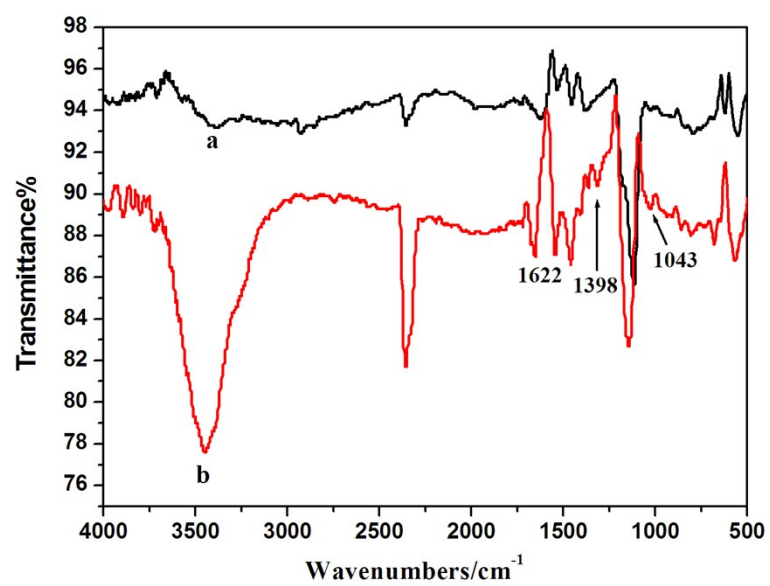


Fig. S2. FT-IR spectra of GO (a) and EDGO materials (b).

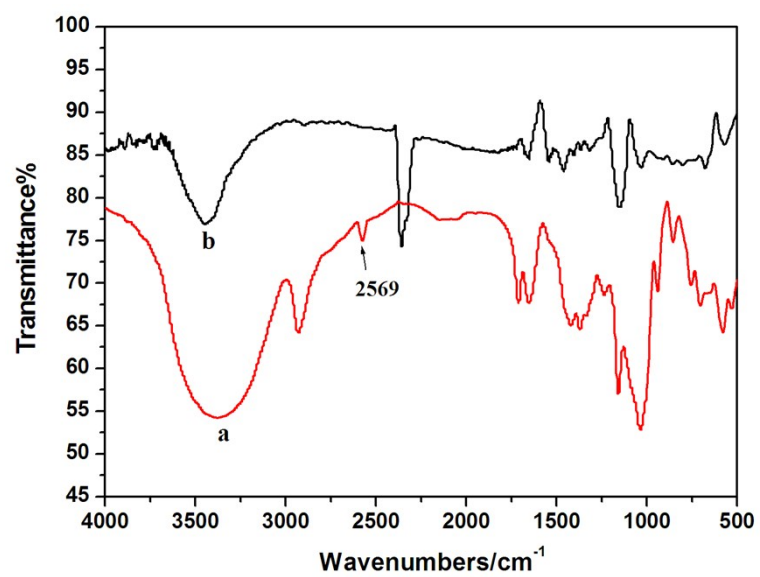


Fig. S3. FT-IR spectra of SH-β-CD (a) and β-CD/AuNPs (b).

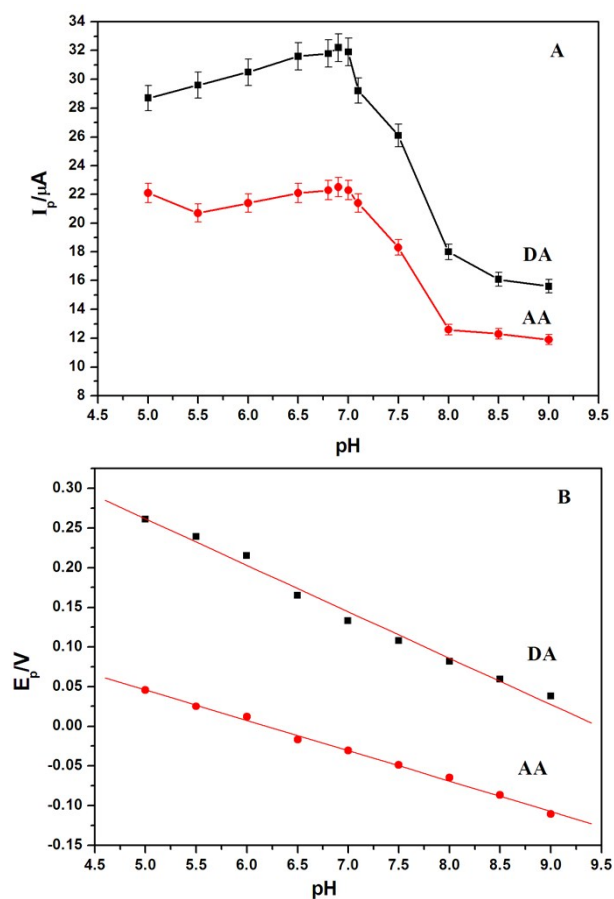


Fig. S4. Effects of pH on the anodic peak current (A) and anodic peak potential (B) of 10 mM AA and 20 μ M at β -CD/AuNPs/ERGO/GCE, respectively, scan rate: 50mVs⁻¹, 0.1 M PBS.