

Supplementary Information

A novel strategy for the simultaneous discrimination of dopamine and epinephrine by cyclic square wave voltammetry implemented with a customized potentiostat

Yuheng Deng¹, Jie Zhao^{1, *}, Yaoguang Yu², Junhan Gao¹, Shifan Zhao^{3,4}, Jianying Yuan¹, Qingze Han¹ and Guofeng Cui^{3,4}

- ¹ School of Mechanical and Automotive Engineering, South China University of Technology, Guangzhou 510640, People's Republic of China.
- ² School of Materials, Sun Yat-sen University, Shenzhen 518107, People's Republic of China.
- ³ School of Chemistry, Sun Yat-Sen University, Guangzhou 510275, People's Republic of China.
- ⁴ Key Laboratory for Polymeric Composite & Functional Materials of Ministry of Education, School of Chemistry, Sun Yat-sen University, Guangzhou 510275, People's Republic of China.

Correspondence: zhaoj77@scut.edu.cn

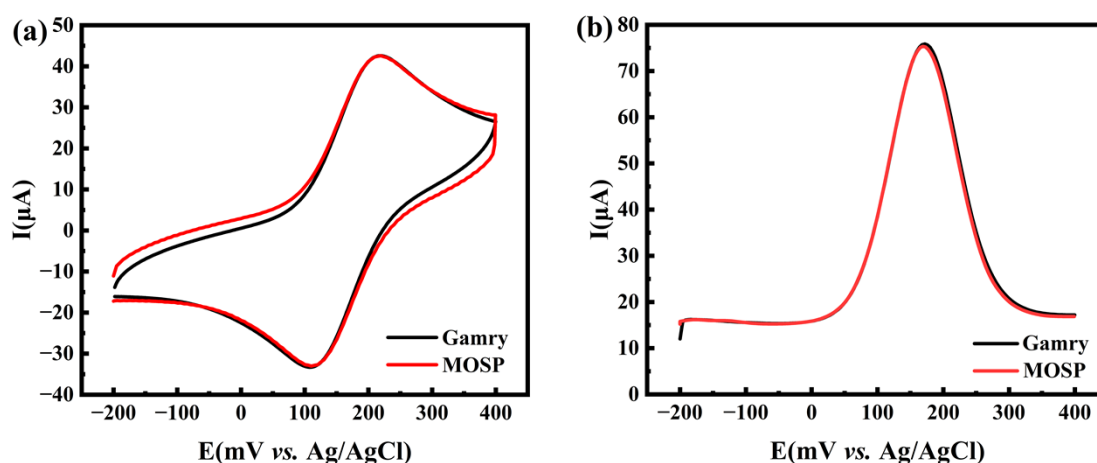


Fig. S1 Comparison of modified open-source potentiostat and commercial electrochemical workstation Gamry Reference 600+ of (a) CV, and (b) SWV in 5mM [Fe(CN)₆]^{3-/4-} solution containing 0.1M KCl at GBIE.

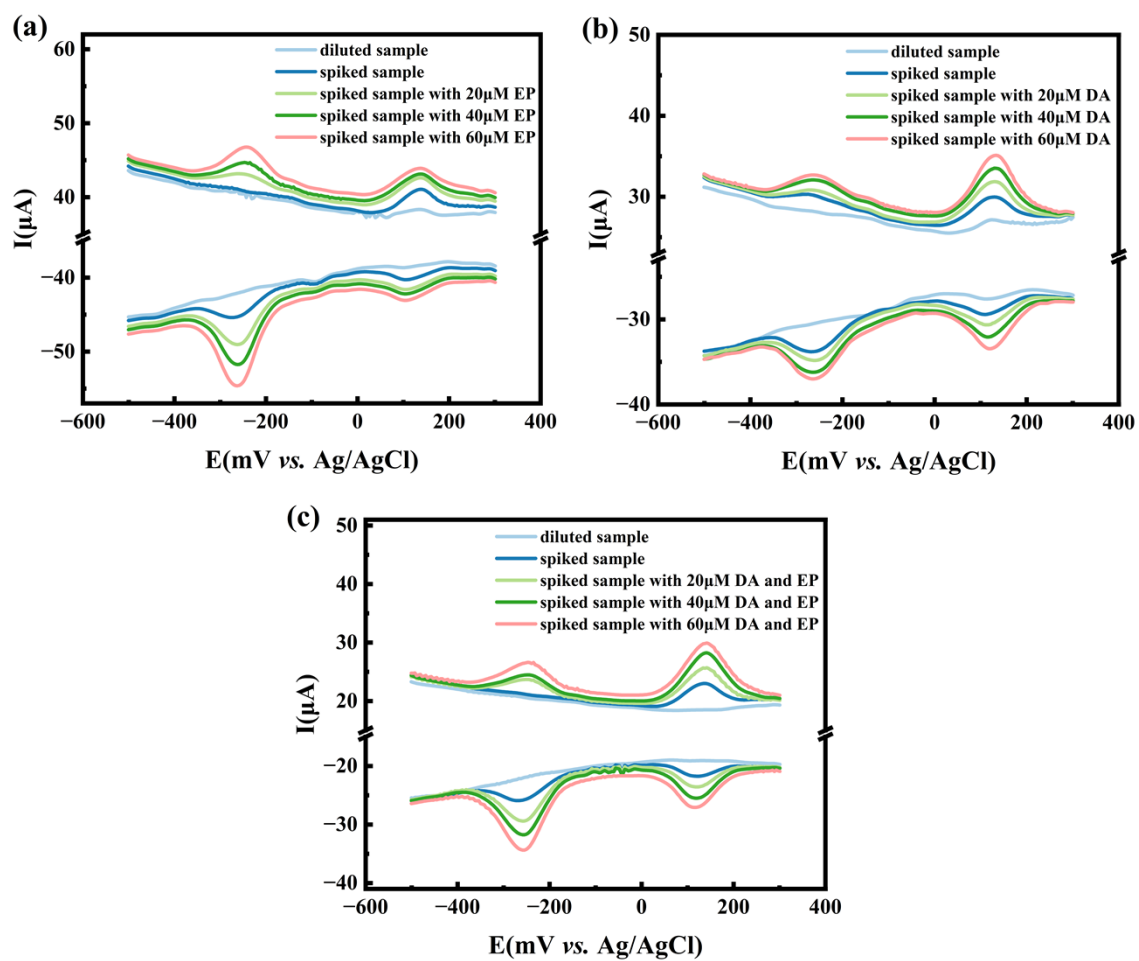


Fig. S2 CSW voltammograms for the determination of the concentrations of EP, DA, and a mixture of DA and EP using the standard addition method in spiked calf serum samples at GBIE.