Electronic Supplementary Material (ESI) for Analytical Methods
This journal is © The Royal Society of Chemistry 2012

Electronic Supplementary Information

Electroanalytical Properties of Cytochrome c with Direct Electron Transfer on Graphene/Gold Nanoparticles Chitosan Modified Glass Carbon Electrode

Fucheng Li [a], Yan Mo [a], Dan Xiao [a, b], Hongyan Yuan [b]*, Yong Guo [a]*

[a]*Key laboratory of Green Chemistry and Technology, Ministry of Education, College of Chemistry and* [b]*College of Chemical Engineering, Sichuan University, Chengdu, 610064 People's Republic of China*

This journal is © The Royal Society of Chemistry 2012

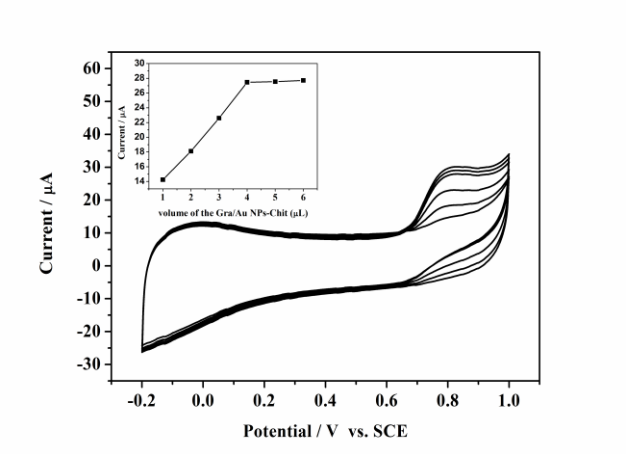

Figure S1 CVs of Cyt c-Gra/Au NPs-Chit/GCE in presence of 200 μM nitrite with various volume of Gra/Au NPs-Chit: 1, 2, 3, 4, 5 and 6 μL. Inset: the plot of peak current (I_p) versus volume of Gra/Au NPs-Chit.

With the increasing volume of Gra/Au NPs-Chit dispersion, the catalytic peak current increased and then tended toward a constant value. However, the layer of Gra/Au NPs-Chit will drop from the electrode if it's too thick. So, 4 μL of 5 mg/mL Gra/Au NPs-Chit dispersion was used for preparation of the nitrite biosensor.

This journal is © The Royal Society of Chemistry 2012

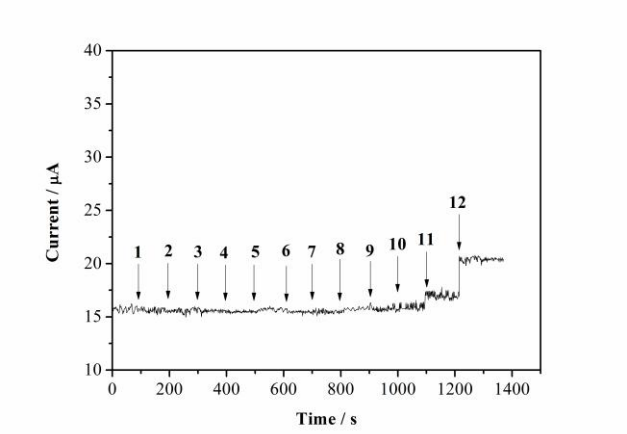

Figure S2 Effect of interference (10mM) on the response of the nitrite sensor: (1) NaCl, (2)NaF, (3)KBr, (4)NH_4NO_3, (5)K_2SO_4, (6)Na_2HPO_4, (7)NaH_2PO_4, (8)$CaCl_2$, (9)glucose, (10)fructose, (11)L-ascorbic acid, (12)200 μM nitrite.