

Supplementary Information

Improved NADH Electroanalysis on Nickel(II) Phthalocyanine Tetrasulfonic Acid/Calf Thymus Deoxyribonucleic Acid/Reduced Graphene Oxide Composite

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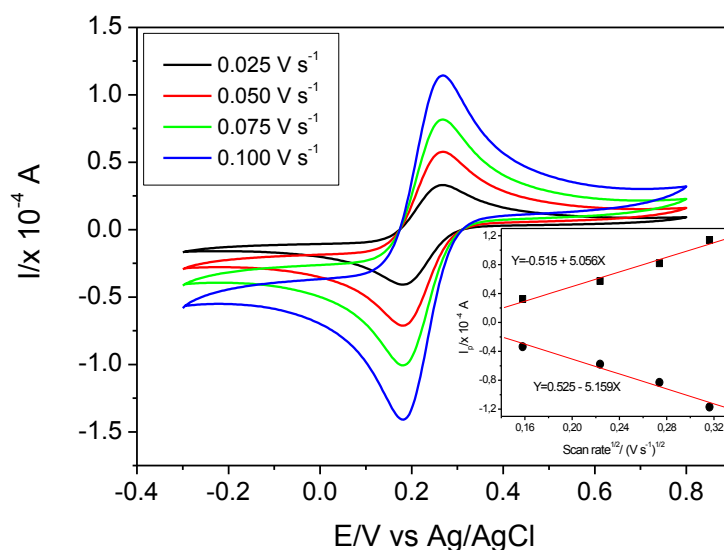


Figure S1. Cyclic voltammograms for the oxidation/reduction of 5 mmol L⁻¹ ferricyanide on CT-DNA/NiTsPC/rGO/GCE using the scan rate of: 0.025; 0.050; 0.075 and 0.10 V s⁻¹.

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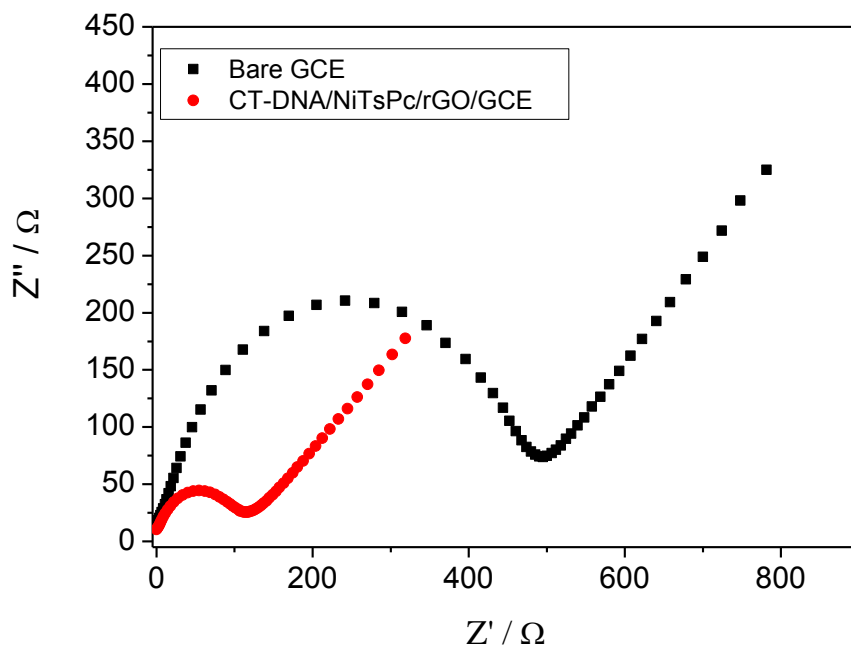


Figure S2. Nyquist plot of bare (black square) and CT-DNA/NiTsPC/rGO/GCE (red circle) in the presence of 5 mmol L^{-1} ferricyanide and 1.0 mol L^{-1} KCl.

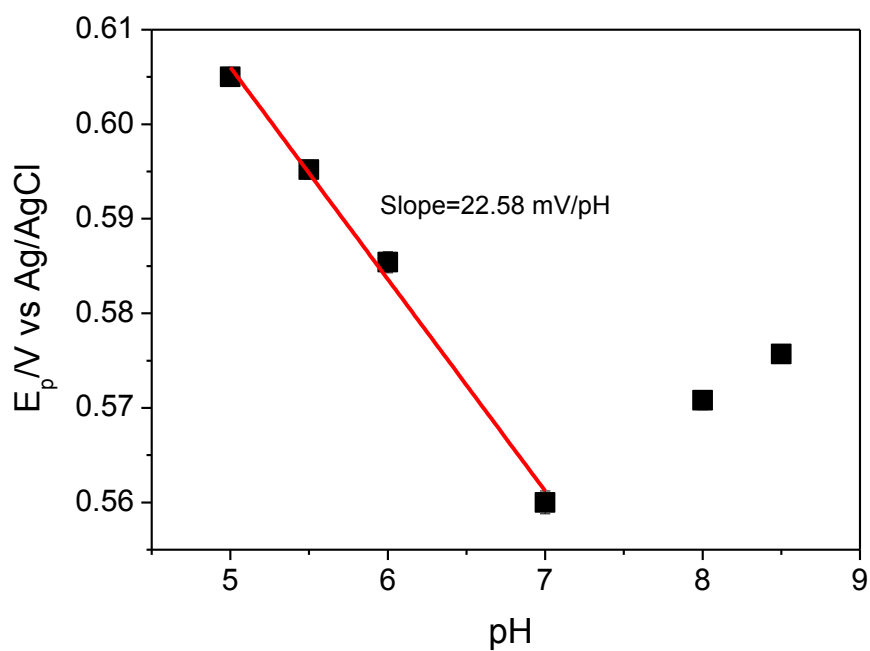


Figure S3. Influence of the solution pH on the peak potential for $200 \mu\text{mol L}^{-1}$ NADH obtained by CV. Measurements carried out in 0.1 mol L^{-1} buffer solution at 0.05 V s^{-1} .

Table S1. Determination of NADH in the presence of some possible interfering compounds; [NADH] = 50 $\mu\text{mol L}^{-1}$

Specie	Amount / (mmol L^{-1})	Recovery of NADH \pm RSD / %
Sodium chloride	5.0	99.5 (\pm 0.6)
Sodium bicarbonate	5.0	99.1 (\pm 0.2)
Potassium chloride	5.0	98.6 (\pm 0.5)
Potassium phosphate dibasic trihydrate	5.0	98.8 (\pm 0.3)
Magnesium chloride hexahydrate	5.0	99.7 (\pm 0.1)
Uric acid	5.0	98.5 (\pm 0.3)
Dopamine	5.0	99.3 (\pm 0.2)
Glucose	5.0	100.5 (\pm 0.4)
Ascorbic acid	5.0	99.8 (\pm 0.6)
Vitamin B6	5.0	98.5 (\pm 0.2)

RSD: relative standard deviation.