Electronic Supplementary Material (ESI) for Analytical Methods.

Supplementary information data

First Adrenalone Electrochemical Sensor Using a Gold-nanoparticle/Poly(pyrrole) Composite-modified Graphite Sensor

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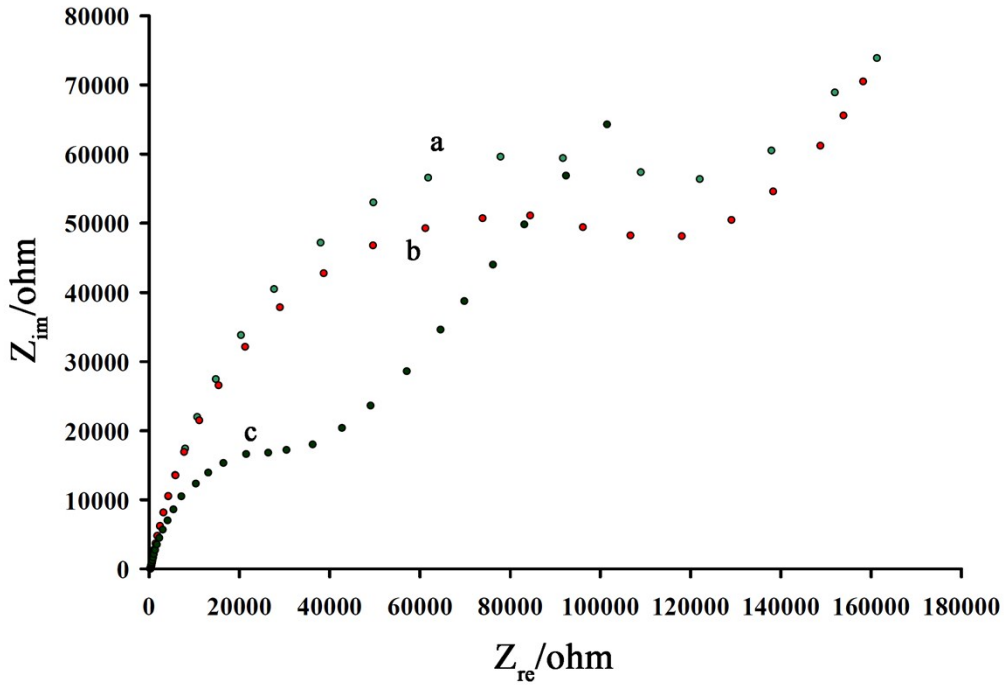

Figure S1. EIS responses of (a) bare PGE, (b) PP/PGE, and (c) Au-NPs/PP/PGE in the presence of 1.0 mM $[Fe(CN)_6]^{3-/4-}$ in 0.1 M KCl.

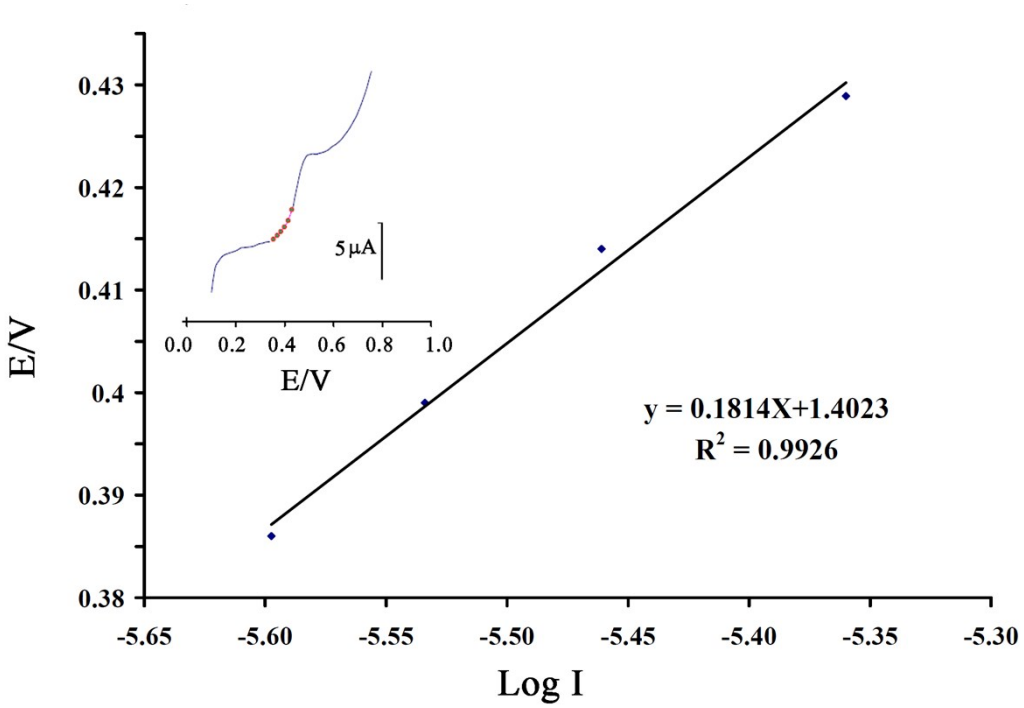

Figure S2. Tafel plot for Au-NPs/PP/PGE in 0.1 M PBS (pH 7.0) in the presence of 150 µM adrenalone.

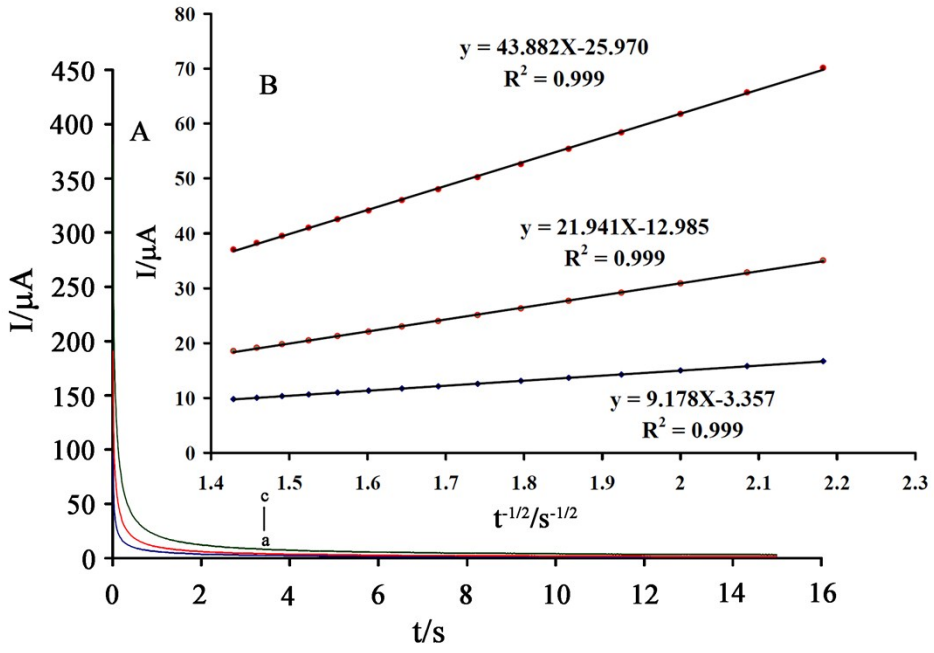

Figure S3. A) Chronoamperograms obtained at the Au-NPs/PP/PGE in the presence of a) 200, b) 400 and c) 600 μM adrenalone in the buffer solution (pH 7.0). B) Cottrell's plot for the data from the chronoamperograms.

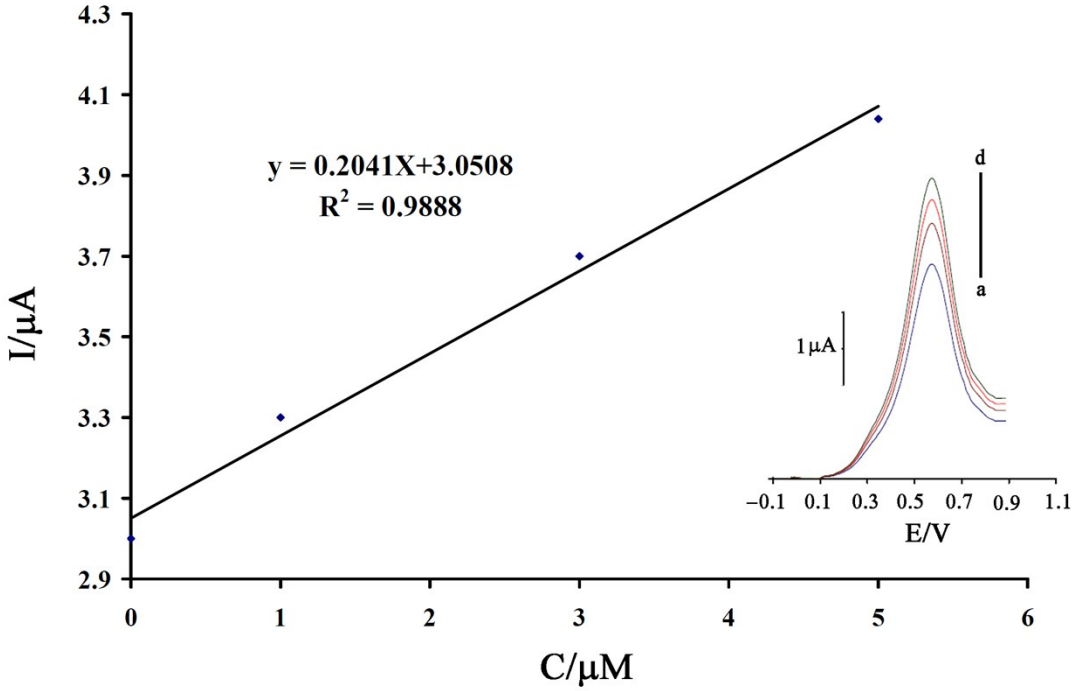

Figure S4; Square wave voltammograms of Au-NPs/PP/PGE in a solution containing pharmaceutical serum sample for row no. 8 from Table 1. Adrenalone added as a) 0.0, b) 1.0, c) 3.0, and d) 5.0 μM