

Supplementary Materials

A Methylene Blue-Enhanced Nanostructured Electrochemical Immunosensor for H-FABP Myocardial Injury Biomarker

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CAPTIONS

Figure S1. Electrochemical stability study of the film showing Ipa and Ipc responses of CVs performed in 20 successive cycles in the presence of supporting electrolyte (0.1 M KCl).

Figure S2. Voltammetric profiles of (a) EAu/PTh/CNT and (b) EAu/PTh/CNT/PSS performed in the presence of 5mM of $(K_3[Fe(CN)_6])/(K_4[Fe(CN)_6])$, at a scan rate of 30 mV s.

Figure S3. (a) Voltammetric profiles of the EAu/PTh/CNT@MB surface obtained under different scan rates; (b) Plot of the square root of the scan rate vs. anodic and cathodic peaks. Experiments performed in the presence of 5mM of $(K_3[Fe(CN)_6])/(K_4[Fe(CN)_6])$.

Figure S4. (a) Curve of the optimization the concentration of the anti-HFABP obtained from cathodic peaks. (b) Theoretical curve from experimental data in (a).

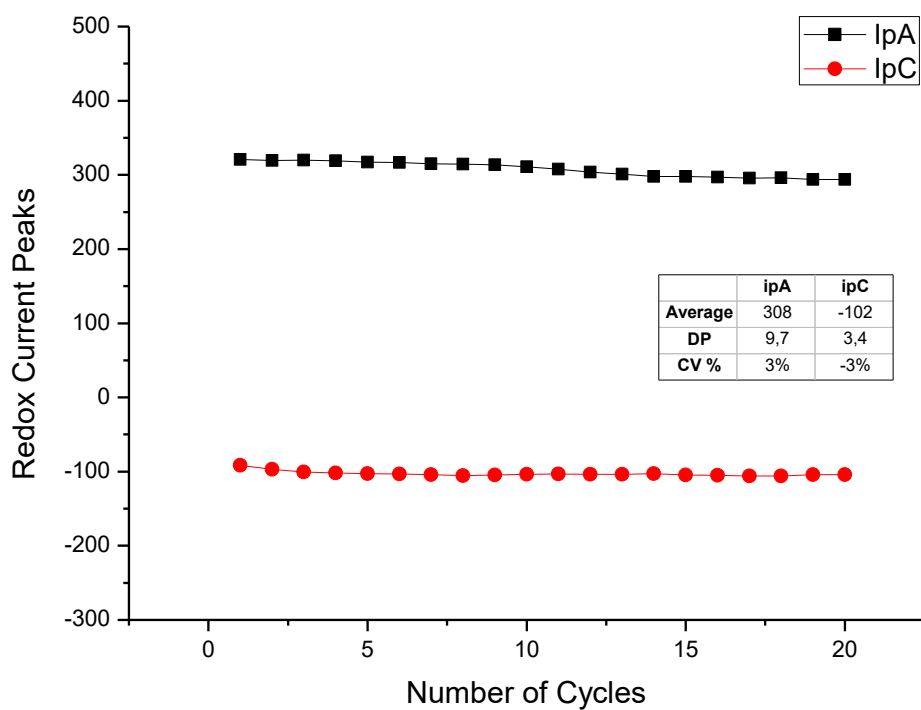
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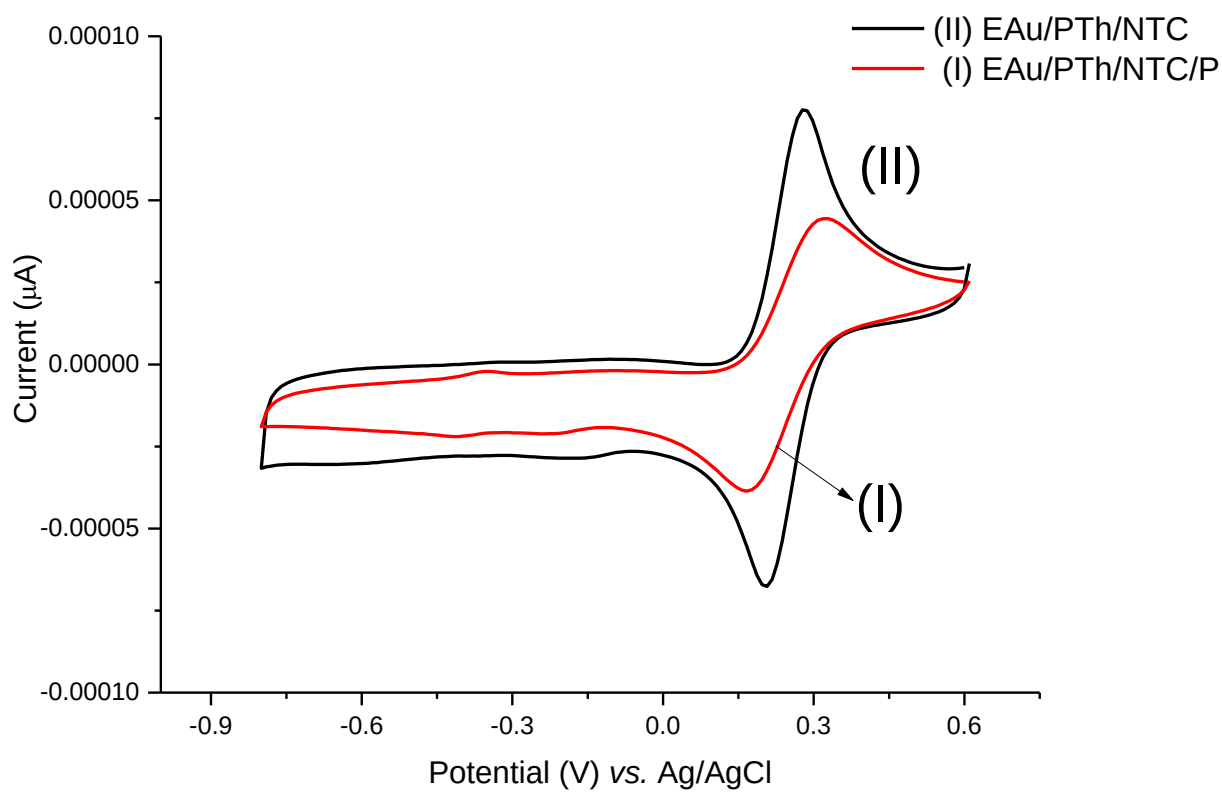
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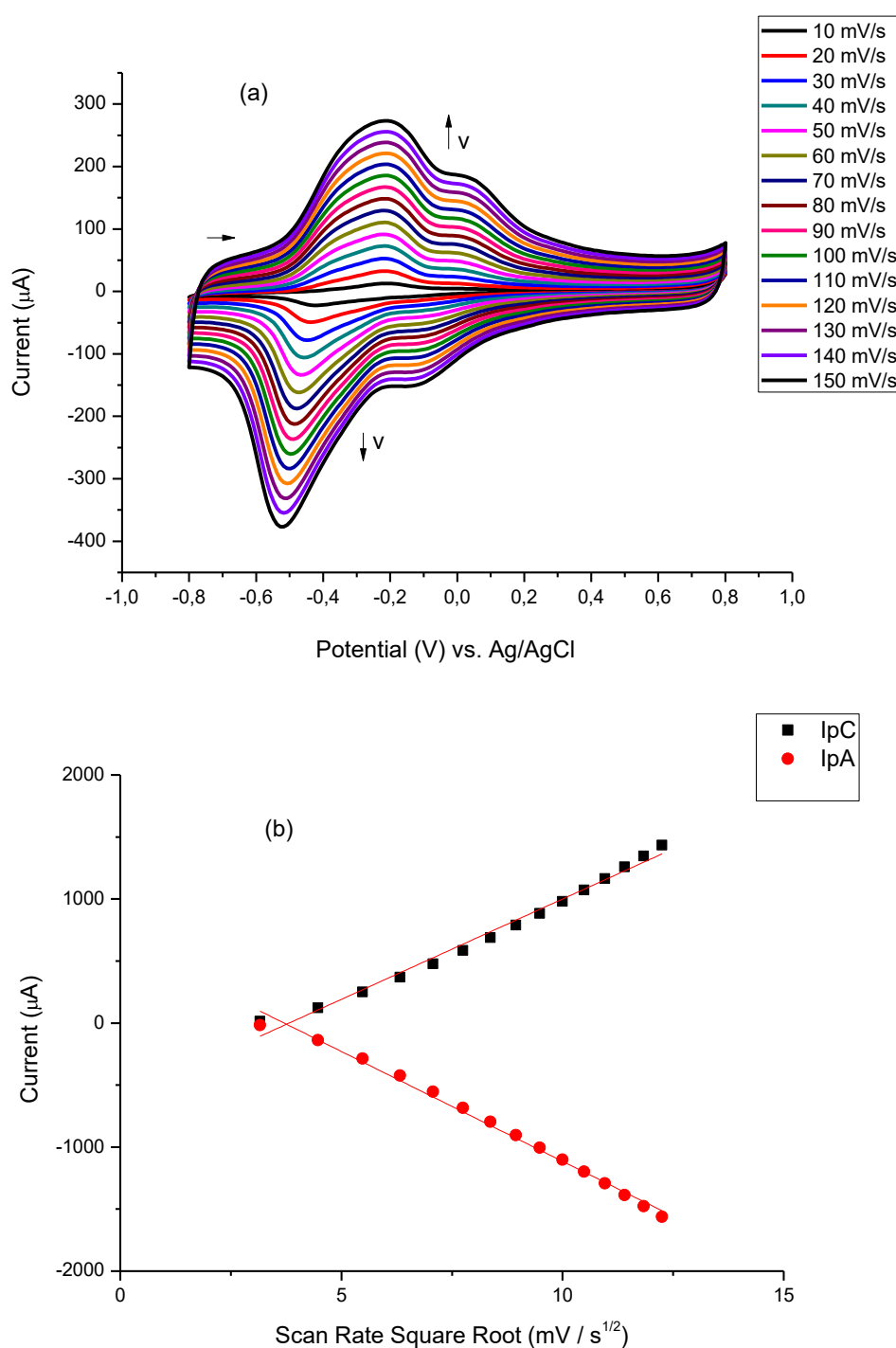
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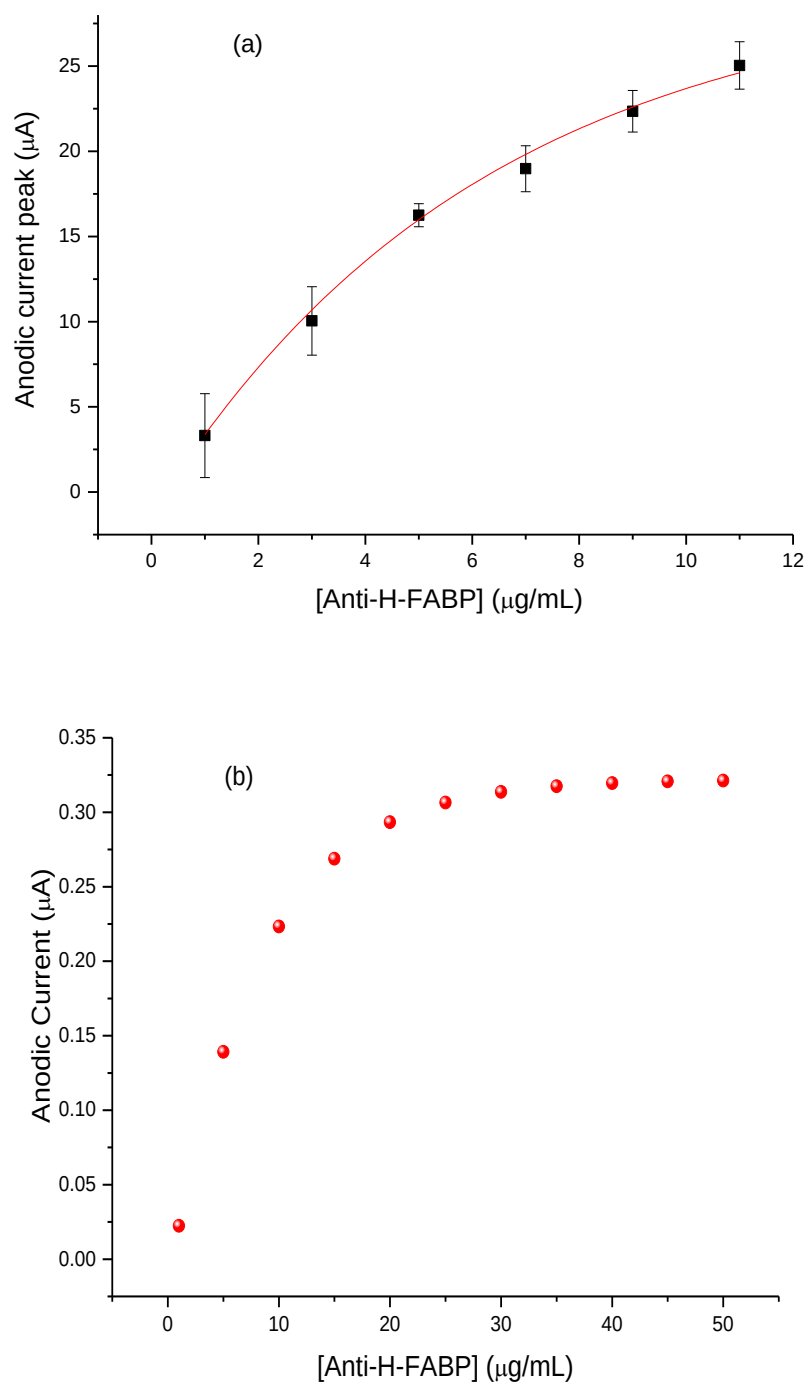
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