Electronic Supplementary Material (ESI) for Analytical Methods.

Supplementary material

An electrochemical sensor modified with molecularly imprinted polymer and carbon black for 17-β-estradiol detection

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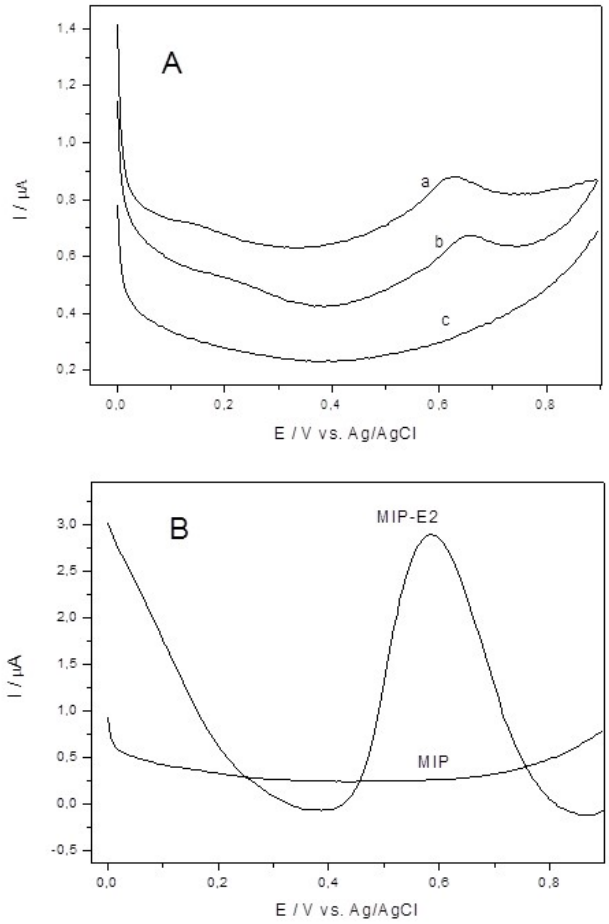


Fig. 1. Voltamograms obtained in the washing process; A) Supernatant after wash (a) 1st , (b) 3rd , (c) 14th; B) comparison between washed (MIP) and unwashed (MIP-E2) materials; Conditions: phosphate buffer solution 0.1 mol L^{-1} pH 7

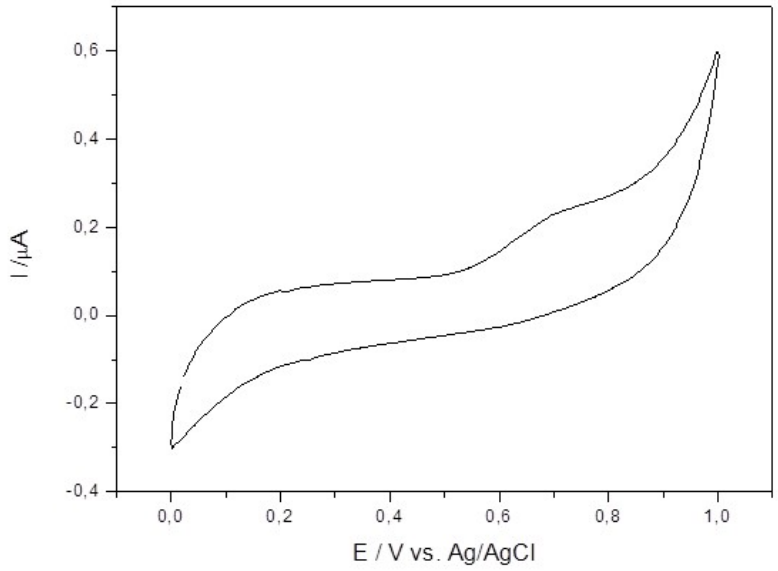
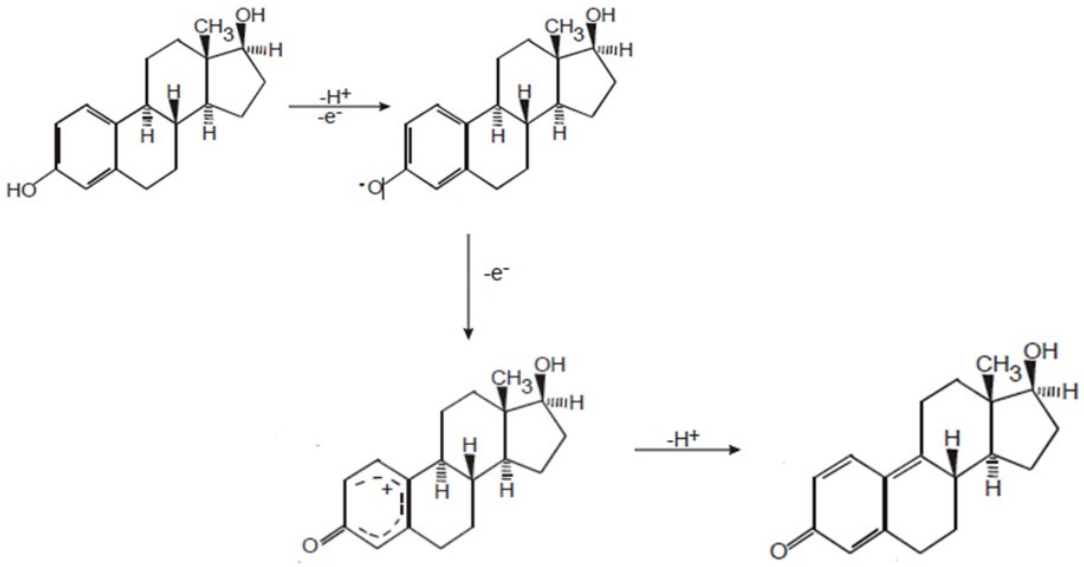


Fig. 2. Cyclic voltammogram (5 mV s^{-1}). Conditions: phosphate buffer solution 0.1 mol L^{-1} pH 7, in the presence of 15 µmol L^{-1} of E2.



Scheme 1. Proposed reaction mechanism for the electrochemical oxidation of E2.