

Supporting information

Performance Improvement of Gold Electrode towards Methanol Electrooxidation in Alkaline Medium: Enhanced Current Density achieved with Poly (aniline-co-2-hydroxyaniline) Coating at Low Overpotential

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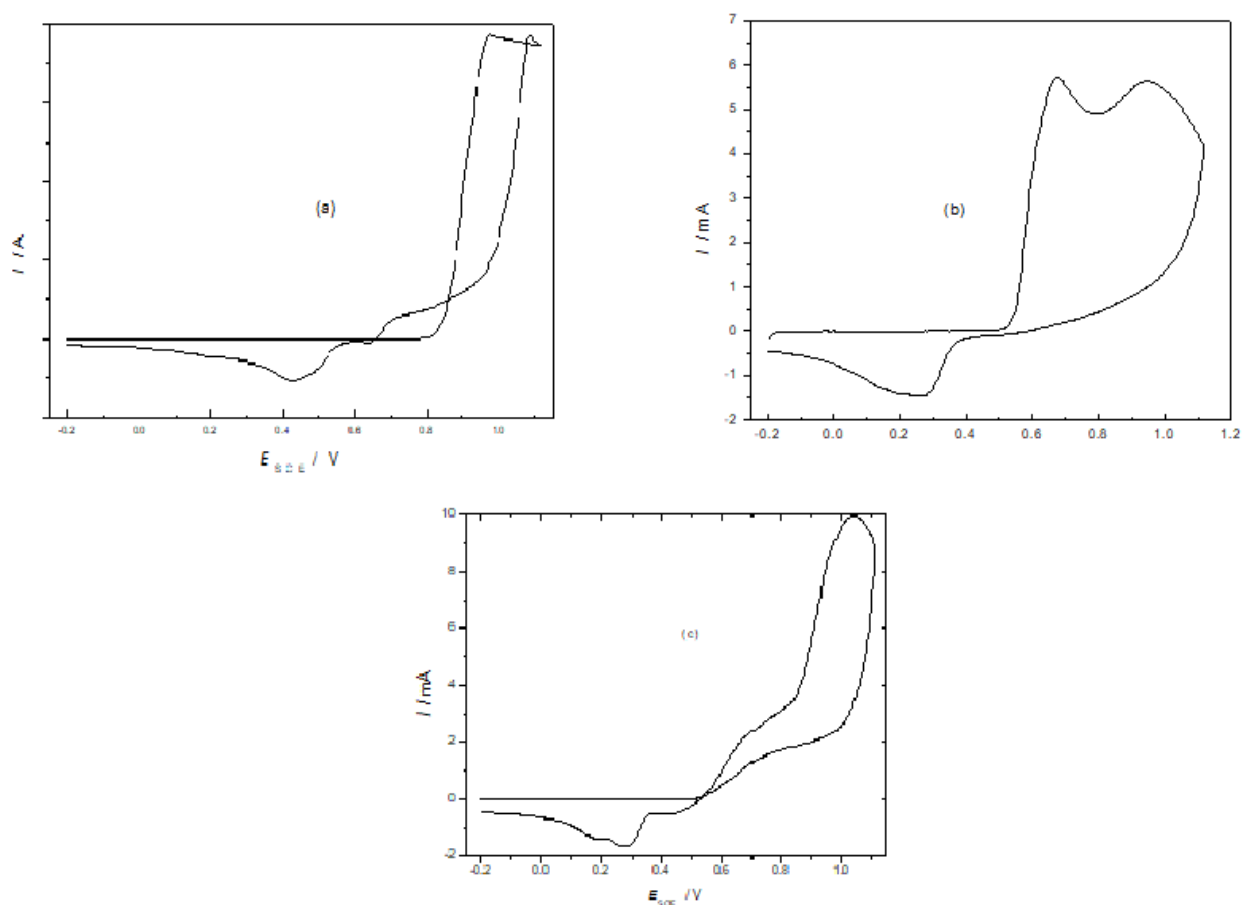


Figure S1. CV curves recorded during oxidation of (a) aniline (b) 2-hydroxyaniline and (c) mixture of aniline and 2-hydroxyaniline.

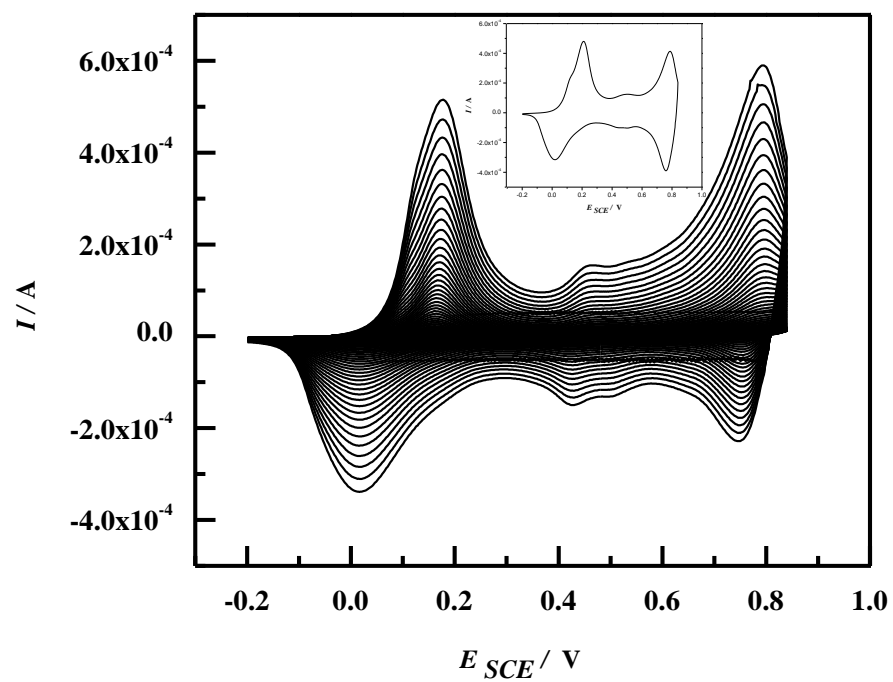


Figure S2. CV curves recorded during oxidation of electropolymerization of aniline. The inset show CV of PANI coated electrode in monomer free electrolyte solution.

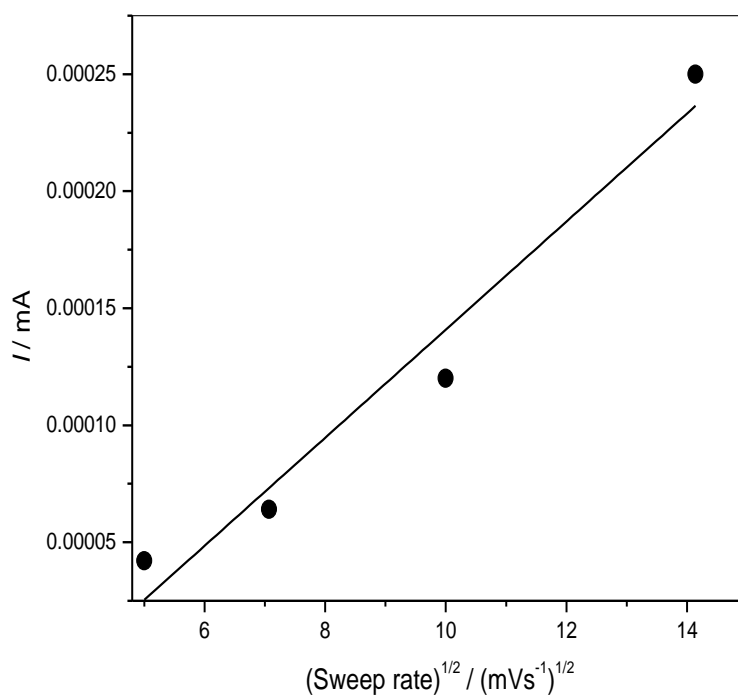


Figure S3. Anodic peak current vs square root of sweep rate.

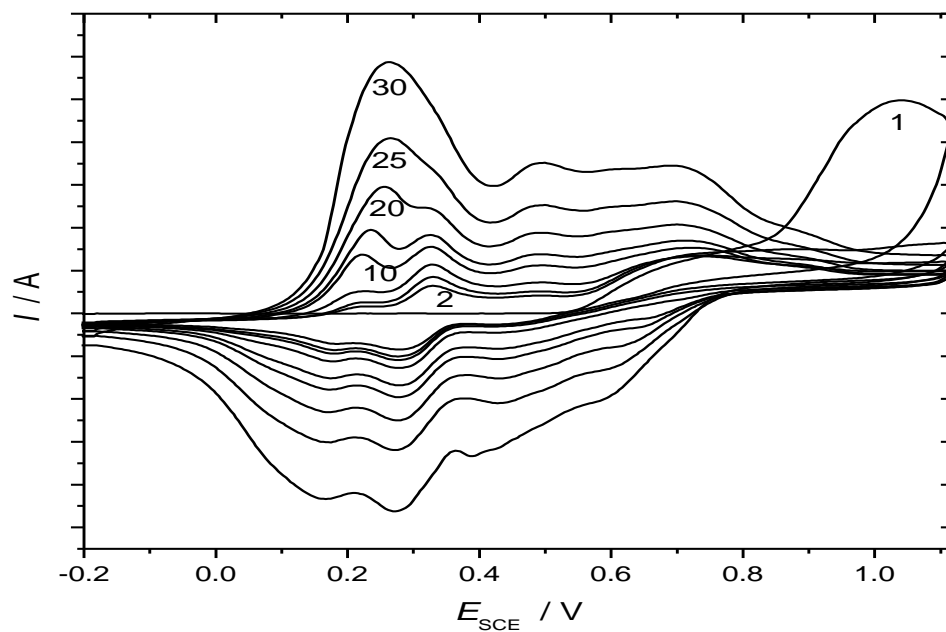


Figure S4. CVs recorded during electrodeposition of PACHA on gold electrode during electrolysis of a solution containing containing 1mM 2-hydroxyaniline and 20 mM aniline in 0.5 M sulphuric acid solution at 50 mV/s.

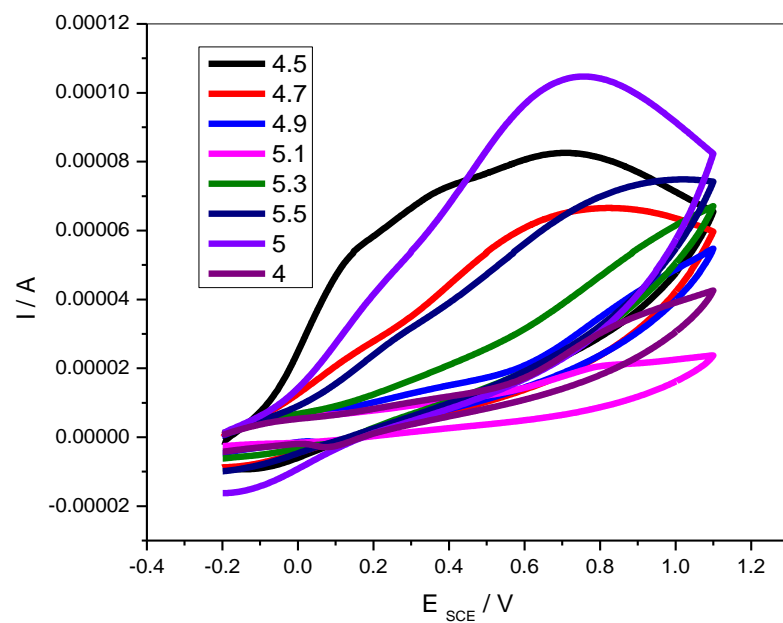


Figure S5. CVs of PACHA coated electrode recorded in different concentrations of methanol (as indicated) in 1.8 M NaOH at 50 mV/s.