

Screen-printed microsystems for the ultrasensitive electrochemical detection of alkaline phosphatase

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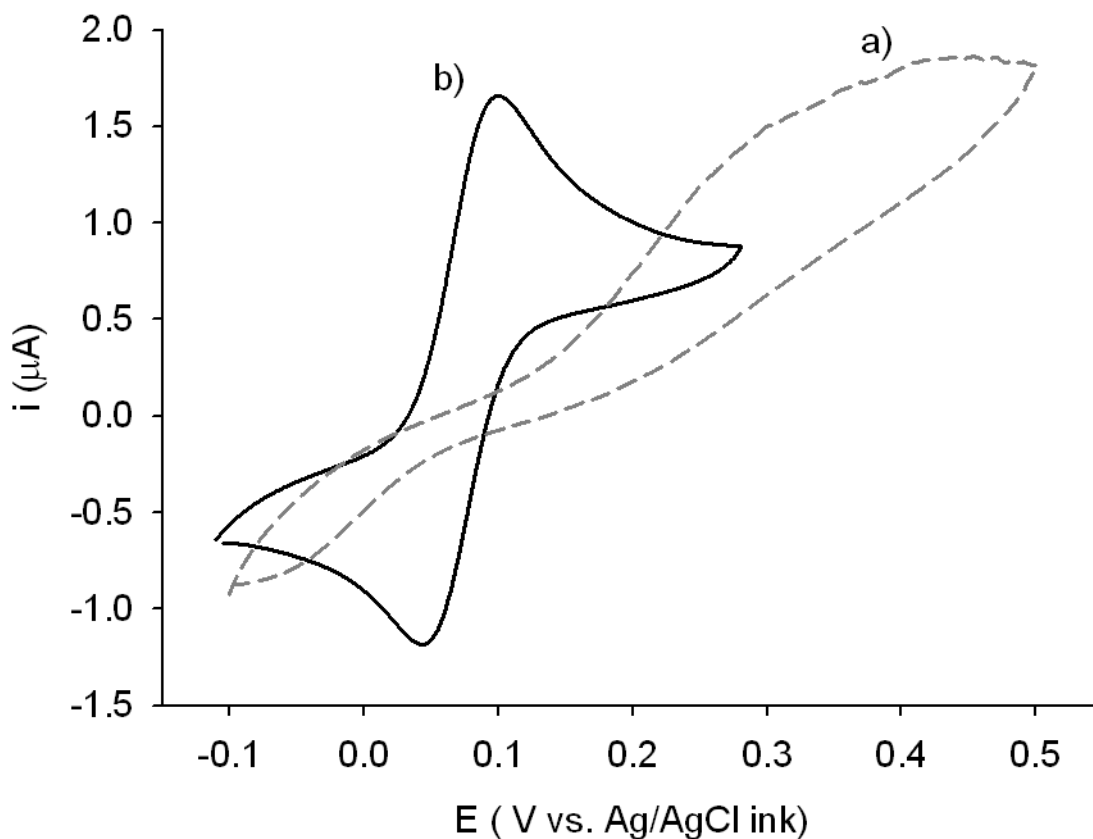


Figure S1: Cyclic voltammetry in 0.1 mM PAP of a) Untreated screen printed carbon microsystem b) After activation in Na_2CO_3 saturated solution anodized at 1.2 V during 300 s. Scan rate 0.05 V/s

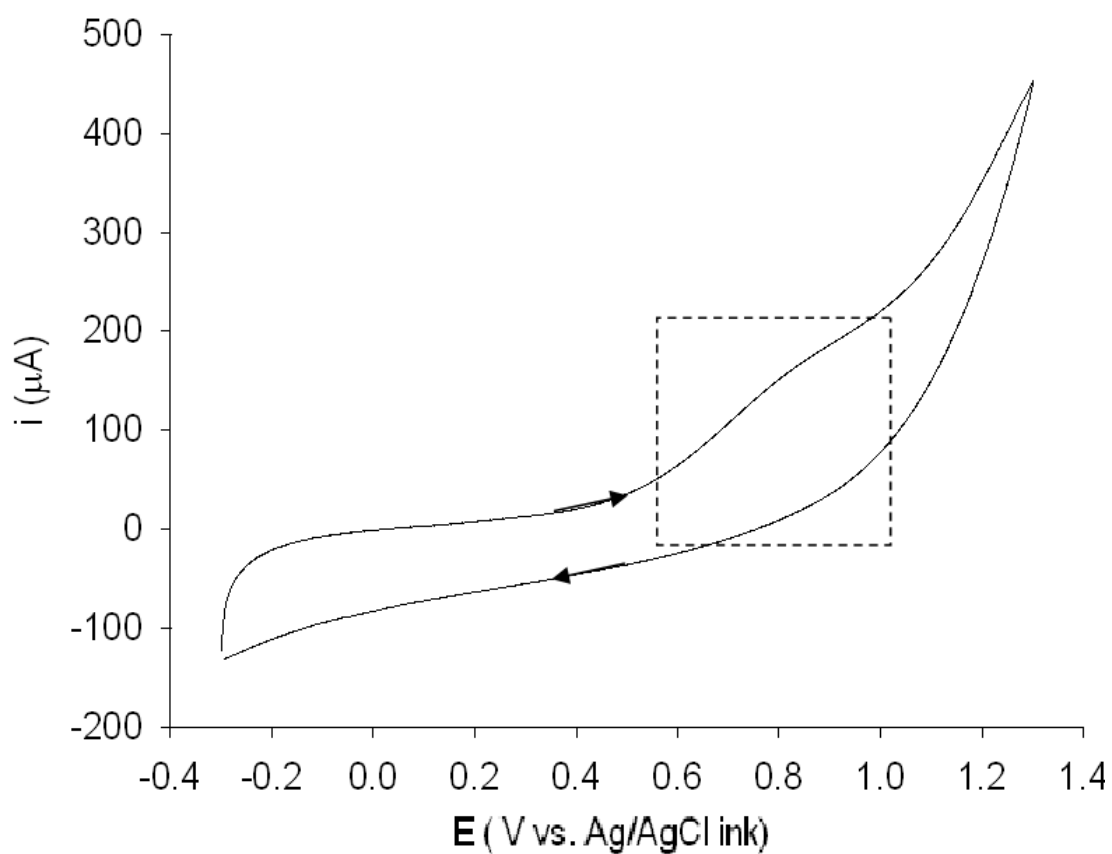


Figure S2: Cyclic voltammetry in 0.1 M pyrrole and potassium chloride in 0.1 M PBS pH 7.2 showing the pyrrole oxidative electropolymerisation zone. Scan rate 0.05 V/s.

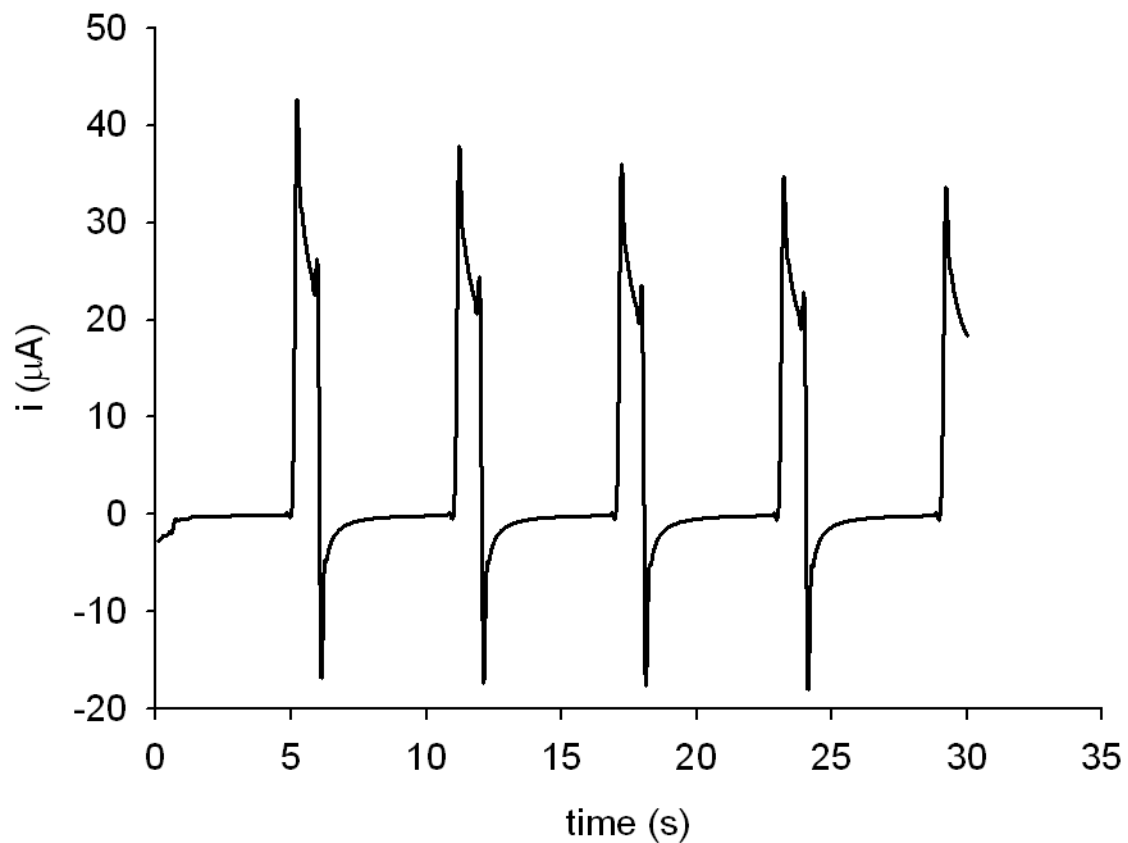


Figure S3: Typical pulse sequence for the electrochemical immobilization of polypyrrole/enzyme films at anodic potentials: 1s pyrrole oxidation pulse + 5 s resting time. (0.1 M pyrrole and potassium chloride in 0.1 M PBS pH 7.2)