

DROPSSENS

Screen-Printed Carbon Electrodes

(ref. 110 and C110)

Disposable **screen-printed carbon electrodes**. Suitable for working with microvolumes (ref. 110) or by dipping them in solution (ref. C110). Ideal for decentralized assays or to develop specific (bio)sensors.

Useful for undergraduate lab to avoid tedious polishing of solid electrodes.

Ceramic substrate: L33 x W10 x H0.5 mm

Electric contacts: Silver

The electrochemical cell consists on:

Working electrode: Carbon (4 mm diameter)

Counter electrode: Carbon

Reference electrode: Silver



Screen-Printed Carbon Electrodes are commercialised in 75 units packs. They should be stored at room temperature in a dry place.

Also, two specific **connectors** that act as an interface between the screen-printed electrode and any potentiostat are available at [DropSens](#).

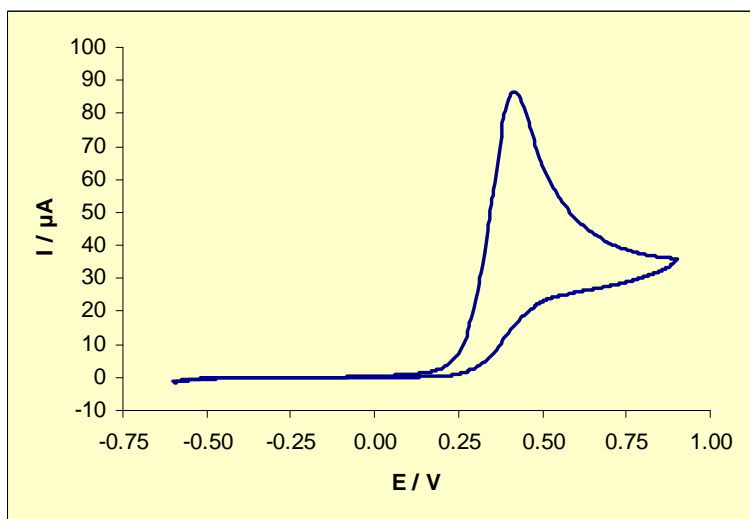
ref. DSC



ref. CAC

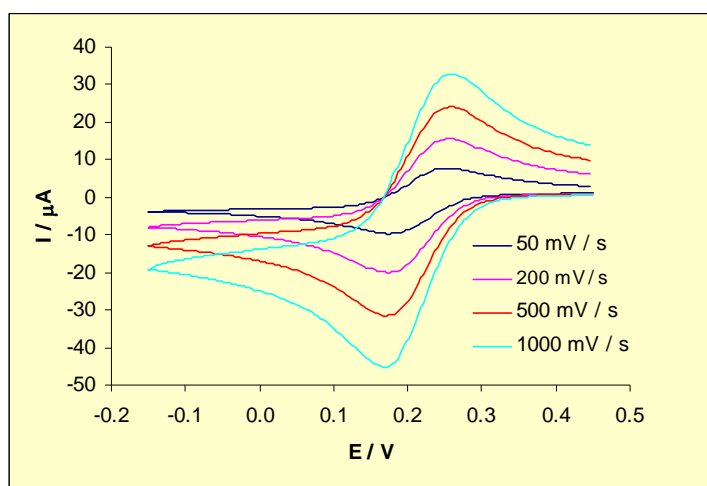


Electrochemical behaviour and electroanalytical performance of SPCEs (ref. 110) for some benchmark redox systems

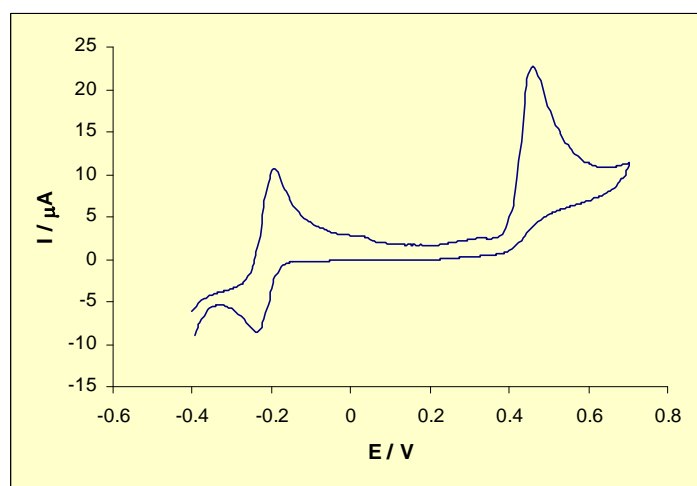


Cyclic voltammogram of $5 \cdot 10^{-3}$ M NADH in 0.05 M phosphate buffer solution pH 7.4

DropSens SPCEs (ref. 110) exhibit a high electrochemical activity. An example is observed for NADH oxidation, that is usually poorly defined at conventional carbon electrodes. **DropSens** electrodes facilitate low potential amperometric measurements of NADH.



Cyclic voltammograms of $5 \cdot 10^{-4}$ M $K_3[Fe(CN)_6]$ in 0.1 M H_2SO_4 electrolyte solution at various scan rates



Cyclic voltammogram of $5 \cdot 10^{-4}$ M indigo carmine in 0.1 M H_2SO_4 electrolyte solution at 100 mV/s

