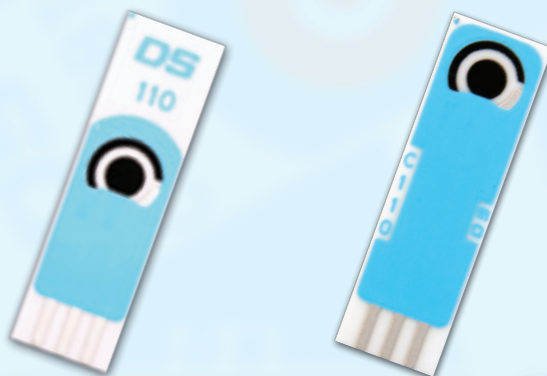


Screen-Printed Carbon Electrodes

Refs. 110
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.

Also useful for undergraduate lab to avoid tedious polishing of solid electrodes.

Ceramic substrate: L33 x W10 x H0.5 mm

Electric contacts: Silver

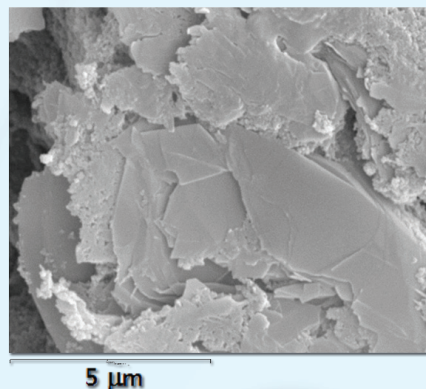
The electrochemical cell consists on:

Working electrode: Carbon (4 mm diameter)

Auxiliary electrode: Carbon

Reference electrode: Silver

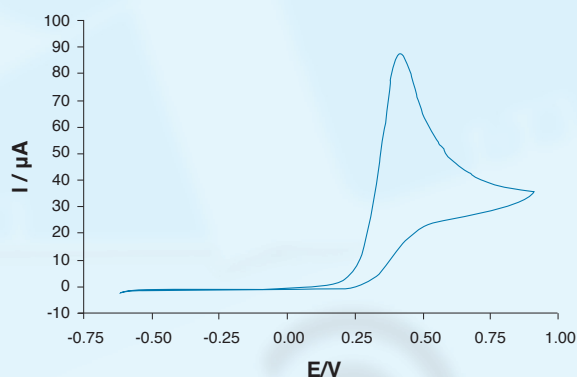
SEM image of working electrode



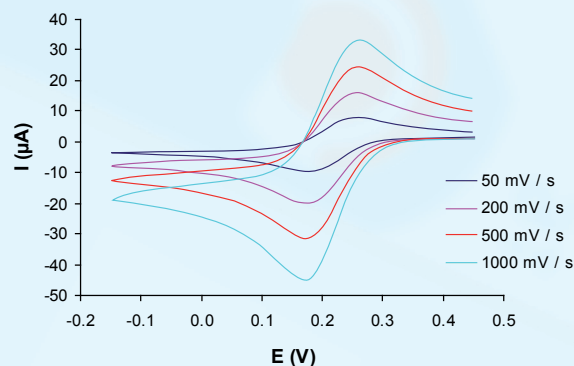
Screen-Printed Carbon Electrodes are commercialised in 75 units packs. They should be stored at room temperature, protected from light in a dry place.

Electrochemical behaviour and electroanalytical performance of SPCEs for some benchmark redox systems

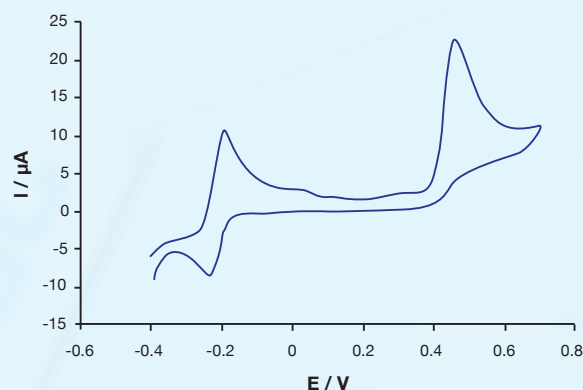
DropSens SPCEs (refs. 110, C110) exhibit a high electrochemical activity. An example is observed for NADH oxidation, that is usually poorly defined at conventional carbon electrodes. **DropSens** electrodes facilitate low potential amperometric measurements of NADH.



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



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

Also, specific **connectors** that act as an interface between the screen-printed electrode and any potentiostat (refs. DSC, CAC) and other accessories are available at **DropSens**.

Related products



DSC



CAC



FLWCL



CELL



STAT400



STAT8000

Full Catalogue



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Contact Form

