Multi-Walled Carbon Nanotubes modified Screen-Printed Carbon Electrodes

Refs. 110CNT
X1110CNT

Multi-Walled Carbon Nanotubes modified Screen-Printed Carbon electrode
Ref. 110CNT

Multi-Walled Carbon Nanotubes modified Dual Screen-Printed Carbon electrode
Ref. X1110CNT

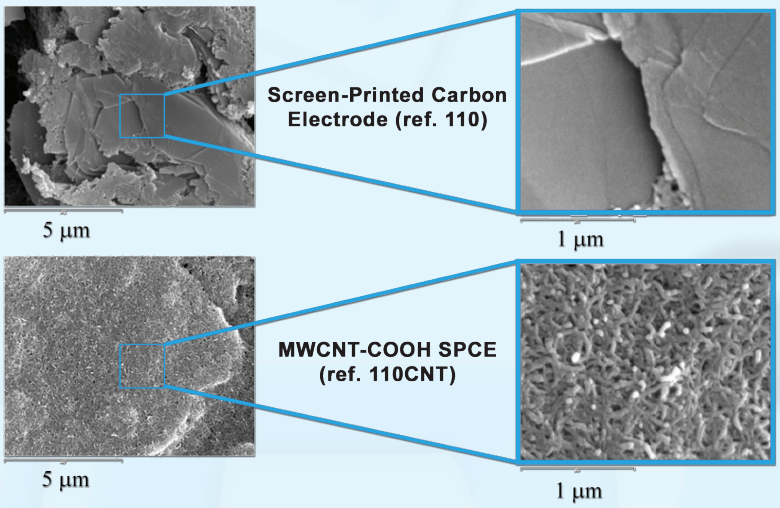
These disposable **Screen-Printed Carbon Electrodes** (SPCEs) modified with C**arboxyl functionalised Multi-Walled Carbon Nanotubes (MWCNT-COOH)** are designed for the development of (bio)sensors with an enhanced electrochemical active area and enhanced electronic transfer properties.

Ceramic substrate: L33 x W10 x H0.5 mm
Electric contacts: Silver

The electrochemical cell consists on:
- *Working electrode(s):* MWCNT-COOH / Carbon
- *Auxiliary electrode:* Carbon
- *Reference electrode:* Silver

MWCNT-COOH SPCEs are commercialised in 50 units packs. Store at room temperature, protected from light in a dry place.

SEM comparative images of working electrodes



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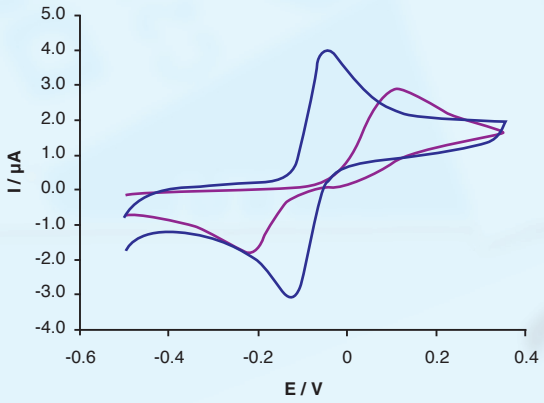
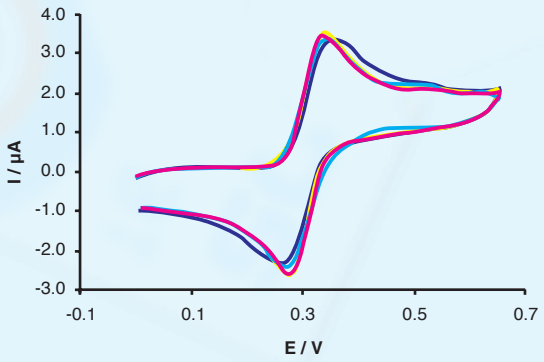
Electrochemical behaviour of MWCNT-COOH SPCEs for some benchmark redox systems

MWCNT-COOH SPCEs (blue CVs, ref. 110CNT) show better electron-transfer properties than conventional SPCEs (pink CVs, ref. 110).



*Cyclic voltammogram of $1 \cdot 10^{-4}$ M **hydroquinone** in 0.1 M acetate buffer solution pH 5.0 at 50 mV/s*



*Cyclic voltammograms of $1 \cdot 10^{-4}$ M **dopamine** in 0.01 M HCl electrolyte solution at 50 mV/s.*
*n = 5 (different MWCNT-COOH SPCEs) **RSD% = 6%***

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

Related products


DSC


CAC


FLWCL


CELL


STAT400


STAT8000

Full Catalogue

Contact Form

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