



## ***Screen-Printed Platinum Electrodes***

(ref. 550)

Disposable **platinum electrodes** (ref. 550). Ideal for working with microvolumes, 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:

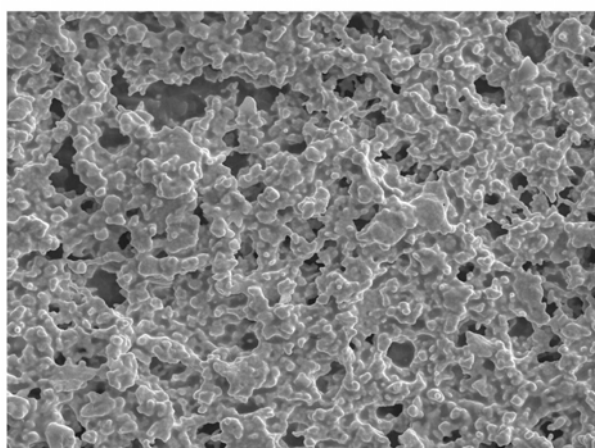
*Working electrode:* Platinum (4 mm diameter)

*Counter electrode:* Platinum

*Reference electrode:* Silver



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



30  $\mu\text{m}$

**Scanning Electron Microscopy image of the platinum working electrode surface (ref. 550).**



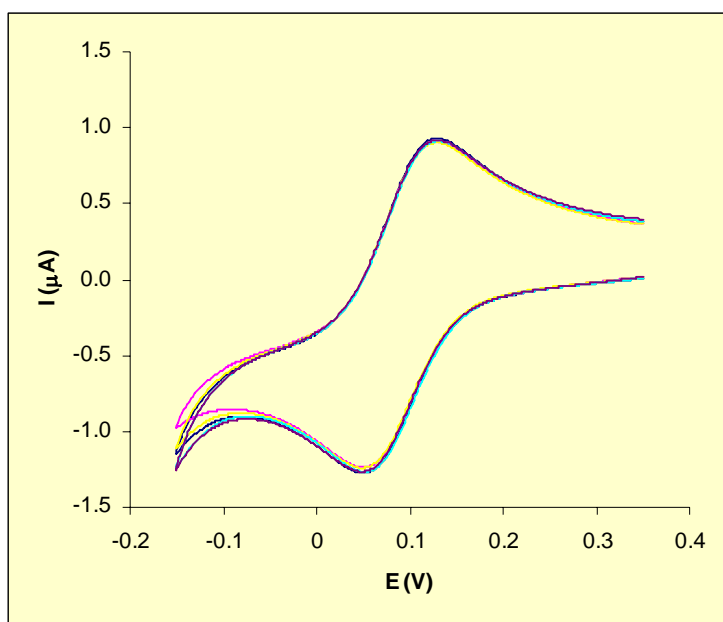
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## Electrochemical behaviour and electroanalytical performance of SPPEs (ref. 550) for the $K_3[Fe(CN)_6]$ redox system

**DropSens** Screen-Printed Platinum Electrodes (SPPEs) exhibit a high electrochemical activity and good repeatability. An example is observed for the  $K_3[Fe(CN)_6]$  electrochemical process obtained with 5 different SPPEs; RSD = 2.6%.



*Cyclic voltammograms of  $1 \cdot 10^{-4}$  M  $K_3[Fe(CN)_6]$  in 0.1 M KCl electrolyte solution at a scan rate of 50 mV/s.  $n = 5$*

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

