

Screen-Printed Ferrocyanide/Carbon Electrodes

Ref. F10



Disposable **Screen-Printed Ferrocyanide/Carbon Electrodes (ref. F10)** are ideal for the determination of hydrogen peroxide at a low detection potentials. These electrodes are recommended for the development of enzymatic biosensors based on oxidases, for working with microvolumes and for decentralized assays.

Ceramic substrate: L33 x W10 x H0.5 mm

Electric contacts: Silver

The electrochemical cell consists on:

Working electrode: Ferrocyanide/Carbon

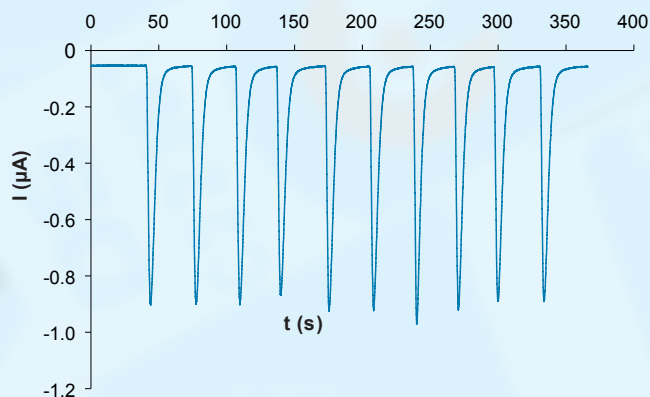
Auxiliary electrode: Carbon

Reference electrode: Silver

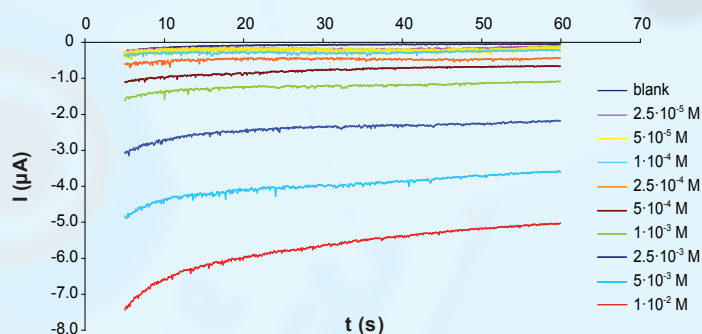
Screen-printed Ferrocyanide/Carbon Electrodes are commercialised in 75 units pack. They should be stored at room temperature, protected from light in a dry place.

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Amperometric detection of hydrogen peroxide in a flow injection analysis system with our easy to use Flow-cell (ref. FLWCL). The amperometric responses for $1 \cdot 10^{-3}$ M H_2O_2 at a ref. F10 electrode do not show any fouling effect. $RSD\% = 3.5$, $n = 10$.
 $E_{det} -0.15$ V; Flow rate 2 ml/min; Flow carrier 0.05 M phosphate buffer, pH 6.5 and 0.1 M KCl.



These Ferrocyanide/Carbon Electrodes (ref. F10) can also be used in batch, for chronoamperometric detection of hydrogen peroxide using a drop of 40 μ L of sample.
In this assay different electrodes are used for each measurement. Analysis of hydrogen peroxide between $2.5 \cdot 10^{-5}$ M and $1 \cdot 10^{-3}$ M is presented in the figure.
 $E_{det} -0.15$ V (60 s); Electrolyte solution 0.05 M phosphate buffer, pH 6.5 and 0.1 M KCl.

Also, specific connectors that act as an interface between the Screen-Printed Electrode and any potentiostat and other accessories are available at [DropSens](#).

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Parque Tecnológico de Asturias - Edif. CEEI. 33428 LLanera (Asturias). Spain
(+34) 985 27 76 85 - info@dropsens.com - www.dropsens.com

Contact Form

