

## **Screen-Printed Meldola's Blue/Carbon Electrode** (ref. 610)

Disposable **Screen-Printed Meldola's Blue/Carbon Electrodes** (ref. 610) are ideal for the determination of Nicotinamide Adenine Dinucleotide (NADH) at a low detection potential. These electrodes are recommended for the development of enzymatic biosensors based on dehydrogenases, for working with microvolumes and for decentralized assays.



*Ceramic substrate:* L33 x W10 x H0.5 mm

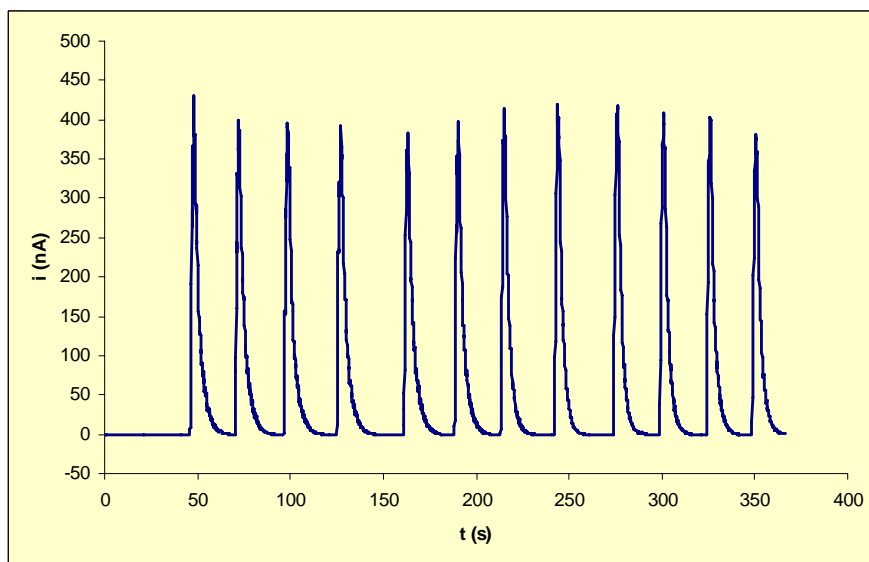
*Electric contacts:* Silver

The electrochemical cell consists on:

*Working electrode:* Meldola's Blue/Carbon (4 mm diameter)

*Counter electrode:* Carbon

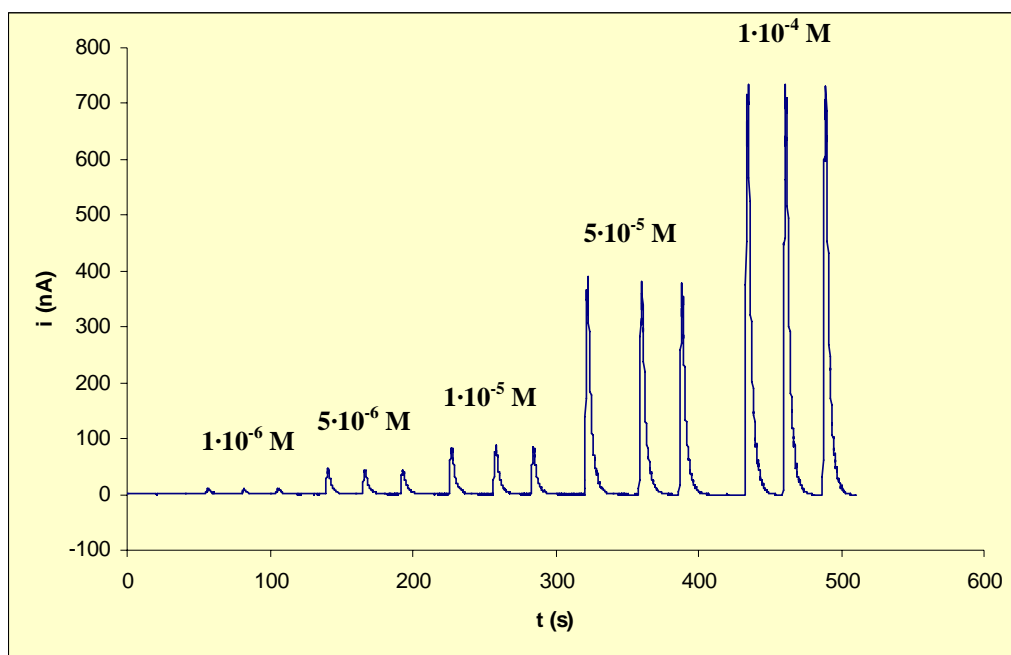
*Reference electrode:* Silver



**Figure 1.** Amperometric detection of NADH in a flow injection analysis system with our easy to use flow cell. The amperometric responses for  $5 \cdot 10^{-5}$  M NADH at a ref. 610 electrode do not show any fouling effect. RSD% = 4, n = 12.

$E_{det} +0.1$  V; Flow rate 2 ml/min; Flow carrier 0.1 M phosphate buffer, pH 6.0 and 0.1 M KCl.

Screen-printed Meldola's Blue/Carbon Electrodes are commercialised in 75 units packs. They should be stored at room temperature in a dry place.



**Figure 3.** Analysis of NADH between  $1 \cdot 10^{-6} \text{ M}$  and  $1 \cdot 10^{-4} \text{ M}$  is presented in the figure.  $E_{det} +0.1 \text{ V}$ ; Flow rate 2 ml/min; Flow carrier 0.1 M phosphate buffer, pH 6.0 and 0.1 M KCl.



**Figure 4.** Cable connector for screen printed electrodes



**Figure 5.** Flow-cell for screen printed electrodes

