



# Microchip Holder DC

# Technical Features

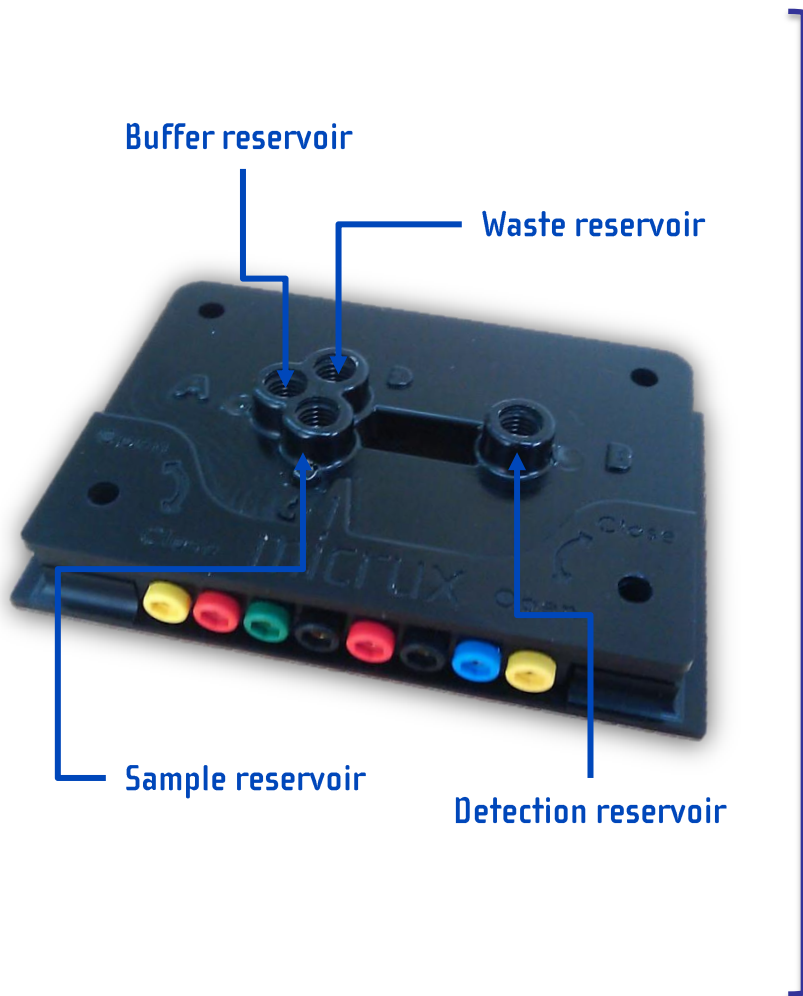
The **chip holder** (ref. *MCE-HOLDER-DC02*) is the most recent user-friendly interface for easy use of single- and dual-channel microchips with integrated electrochemical detection.



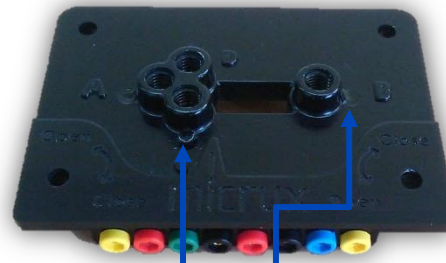
- » **Dimensions:** *100 x 65 x 15 mm (L x W x H)*.
- » **Material:** black-methacrylate.
- » **Integrated wells** (buffer solution, sample, waste and detection reservoir) with standard *fluidic ports* ( $1/4''$ -28 UNF thread).
- » **High voltage electrodes:** Platinum ( $300\ \mu\text{m}\ \varnothing$ ) integrated on the cover (top part).
- » **Electrical contacts** for detection and voltage electrodes on integrated PCB.
- » **Integrated 2-mm female bananas** for instruments connection.
- » **Reusable**
- » It can be used with **single & dual-channel microchips** ( $38 \times 13\ \text{mm}$ ) with integrated electrodes for single- & dual-mode amperometric detection.

# Microchip Holder

The **chip holder** (ref. MCE-HOLDER-DCO2) consist of two parts joined with plastic wing-screws.



## » top part

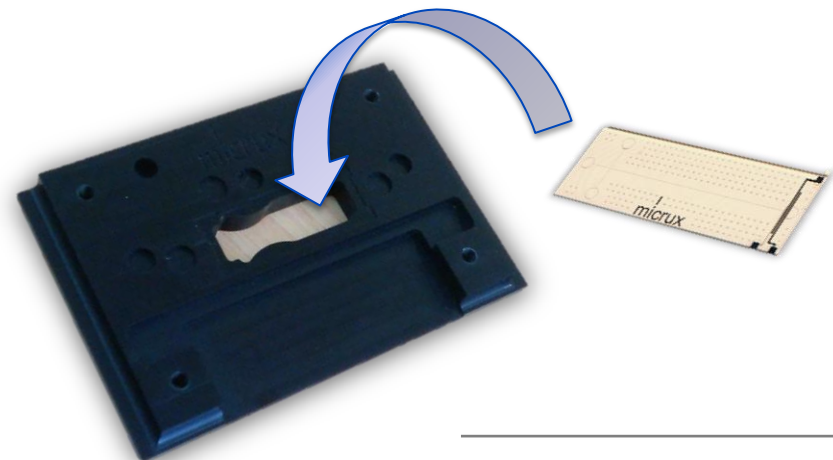


Integrated Platinum HV electrodes



Electrical contacts on integrated PCB & 2-mm female bananas

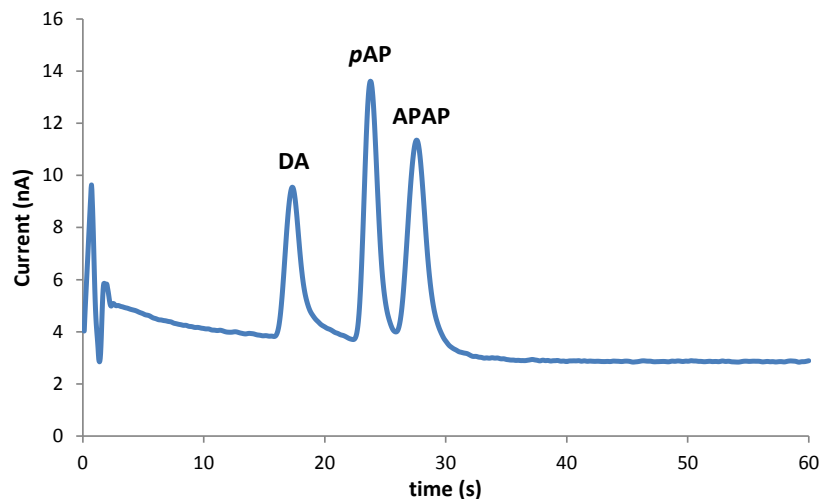
## » BOTTOM part (chip accommodation)



# Microchip Holder

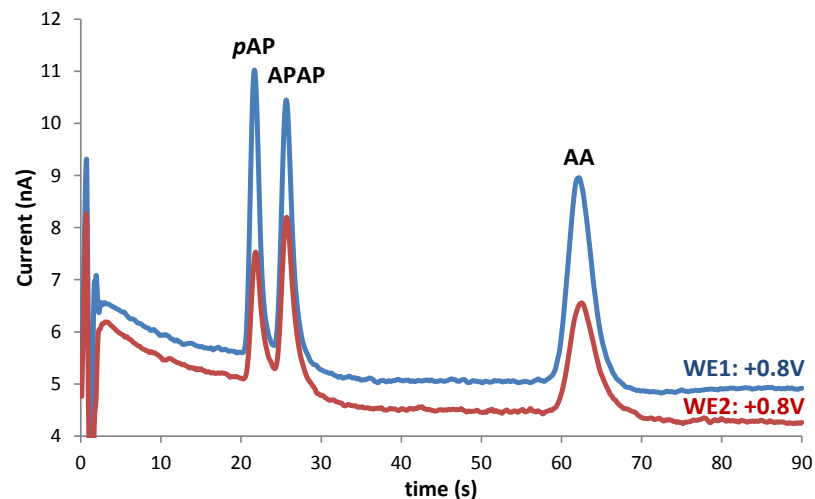
Separations of different compounds performed using a SU-8/pyrex microchip in combination with the *Microchip Holder* (ref. MCE-HOLDER-DCO2) and MicruX<sup>®</sup> HVStat instrument (ref. HVSTAT2010).

## :: MCE-SU8-Pt001T



Electropherogram for the separation of 100  $\mu\text{M}$  DA, 100  $\mu\text{M}$  pAP and 250  $\mu\text{M}$  APAP using a SU-8/pyrex single-channel microchip. Conditions: Running buffer: 20 mM MES pH = 6.0;  $V_{inj} = +750$  V for 5 s,  $V_{sep} = +1000$  V,  $E_d = +0.8$  V (vs. Pt).

## :: MCE-SU8-IDA-Pt005T



Electropherogram for the separation of 100  $\mu\text{M}$  pAP, 200  $\mu\text{M}$  APAP and 400  $\mu\text{M}$  AA using a SU-8/pyrex single-channel microchip with an interdigitated array microelectrode. Conditions: Running buffer: 20 mM MES pH = 6.0;  $V_{inj} = +750$  V for 3 s,  $V_{sep} = +1000$  V.

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