



Microchip Holder DC

Technical Features

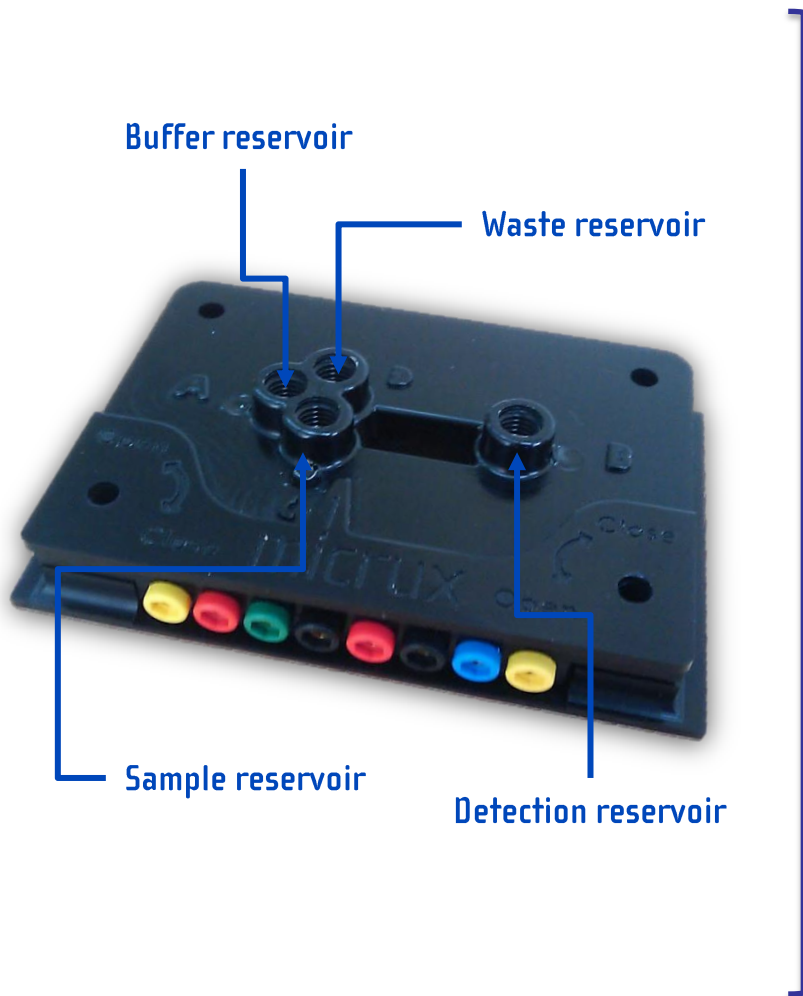
The **chip holder** (ref. *MCE-HOLDER-DC02*) is the most recent user-friendly interface for easy use of single- and dual-channel microchips with integrated electrochemical detection.



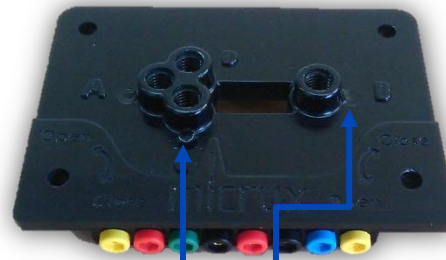
- » **Dimensions:** *100 x 65 x 15 mm (L x W x H)*.
- » **Material:** black-methacrylate.
- » **Integrated wells** (buffer solution, sample, waste and detection reservoir) with standard *fluidic ports* ($1/4''$ -28 UNF thread).
- » **High voltage electrodes:** Platinum ($300 \mu\text{m } \varnothing$) 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

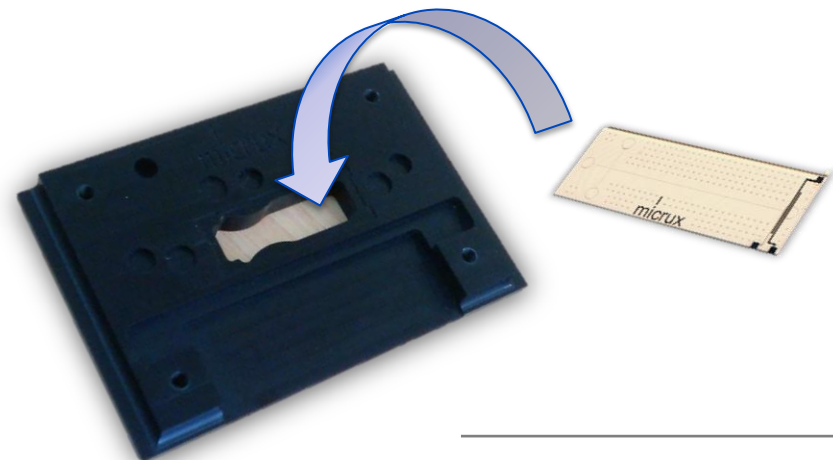


Integrated Platinum HV electrodes



Electrical contacts on integrated PCB & 2-mm female bananas

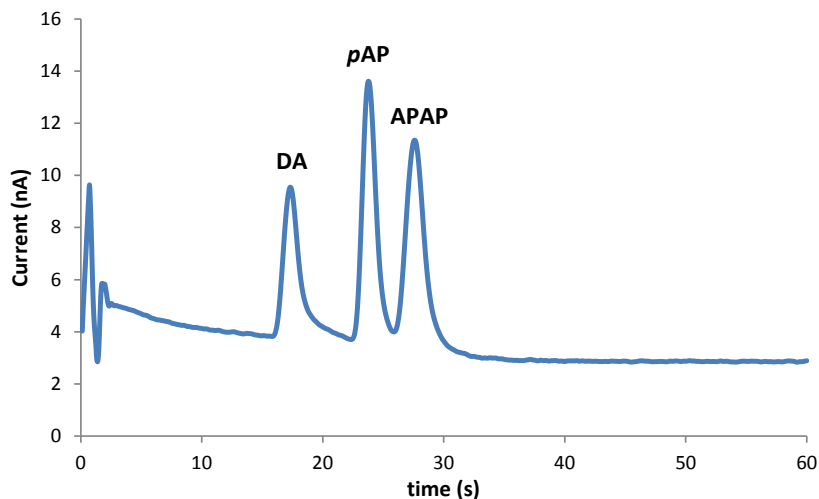
» BOTTOM part (chip accommodation)



Microchip Holder

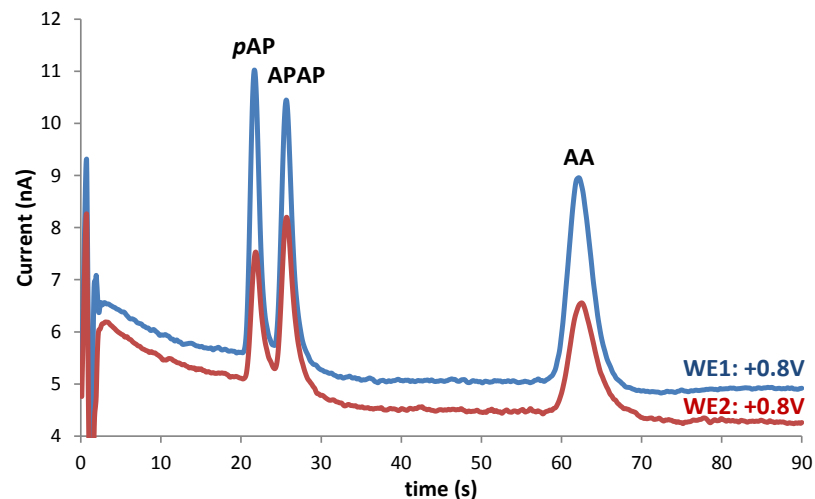
Separations of different compounds performed using a SU-8/pyrex microchip in combination with the *Microchip Holder* (ref. MCE-HOLDER-DCO2) and MicruX[®] HVStat instrument (ref. HVSTAT2010).

:: MCE-SU8-Pt001T



Electropherogram for the separation of 100 μM DA, 100 μM pAP and 250 μM 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 μM pAP, 200 μM APAP and 400 μM 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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