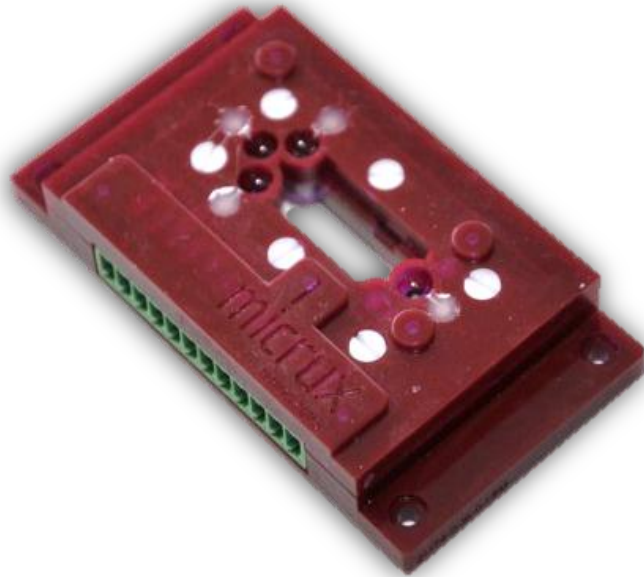




Microchip Holder

Technical Features

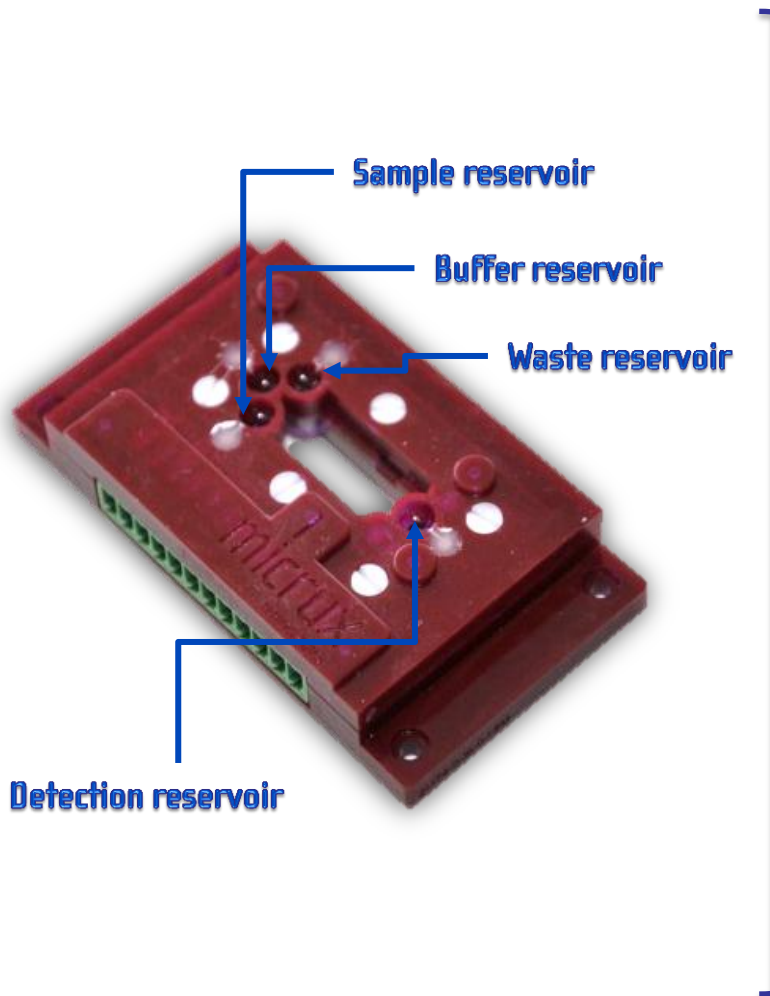
The **chip holder** (ref. *ENC-5U8-01*) is a new friendly interface for easy use of SU-8/Pyrex single-channel microchips with integrated electrochemical detection.



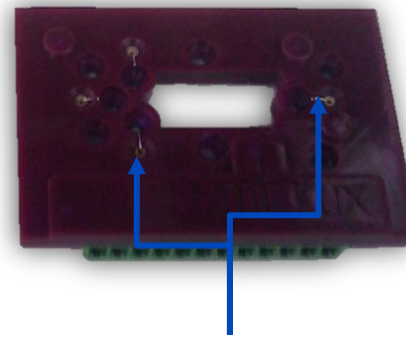
- » Dimension: *90 x 48 x 15 mm*.
- » Integrated wells (buffer solution, sample, waste and detection reservoir).
- » High voltage electrodes: Platinum ($300\ \mu\text{m}\ \varnothing$) included on the cover (top part).
- » Electrical contacts for detection and voltage electrodes on integrated PCB.
- » Reusable
- » It can be used with SU-8 single-channel microchips $38 \times 13\ \text{mm}$ (ref. *MCE-5U8-xx00XT*).

Microchip Holder

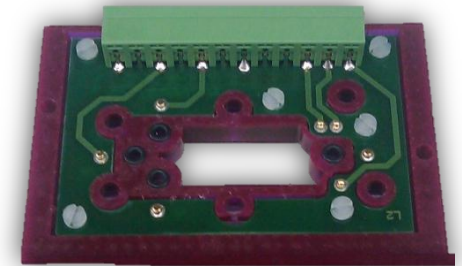
The **chip holder** (ref. ENC-5U8-01) consist of two parts joined with plastic screws.



» top part

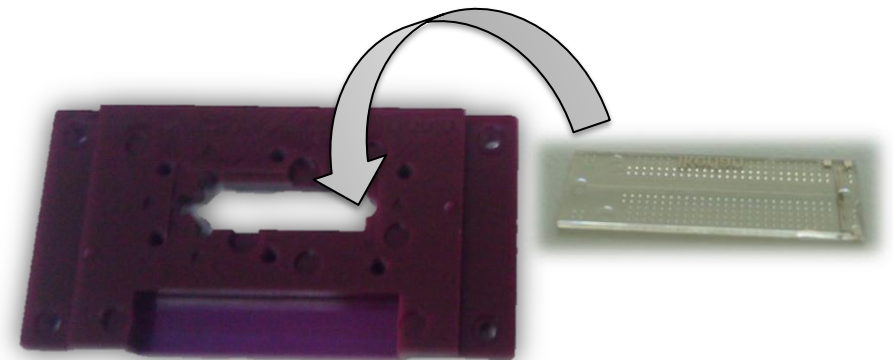


Platinum HV electrodes



Electrical contacts
on integrated PCB

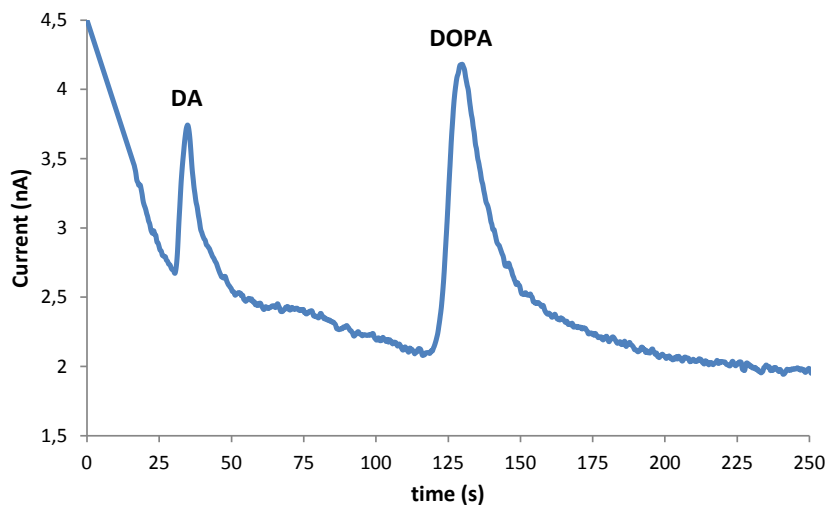
» BOTTOM part (chip accommodation)



Microchip Holder

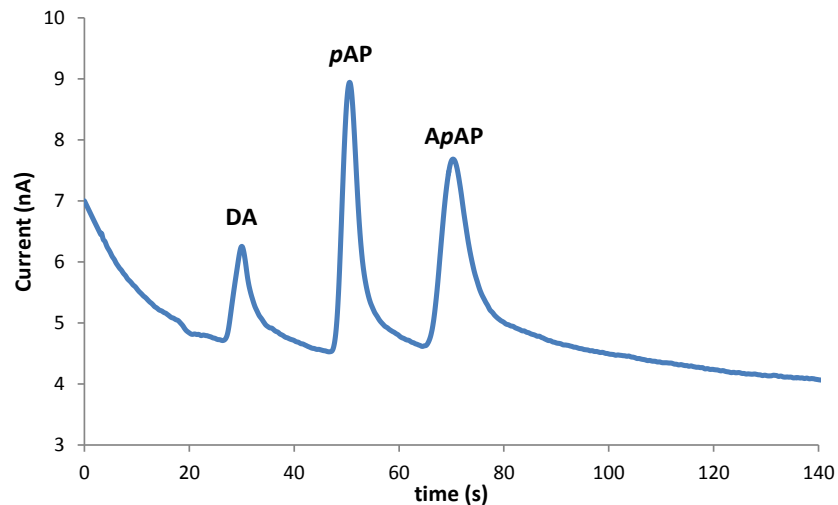
Separations of dopamine (DA), DOPA, *p*-aminophenol (*p*AP) and acetaminophen (ApAP) performed using a SU-8/pyrex microchip in combination with the *Microchip Holder* (ref. ENC-SU8-01) and MicruX[®] HVStat instrument (ref. HVSTAT2010).

:: MCE-SU8-Pt002T



Electropherogram for the separation of 100 μM DA and 500 μM DOPA using a SU-8/pyrex single-channel microchip. Conditions: Running buffer: 25 mM MES-AcONa pH = 5,57; $V_{inj} = +750$ V for 2s, $V_{sep} = +1000$ V, $E_d = +0.75$ V (vs. Pt).

:: MCE-SU8-Pt002T



Electropherogram for the separation of 50 μM DA, 50 μM pAP and 200 μM ApAP using a SU-8/pyrex single-channel microchip. Conditions: Running buffer: 25 mM MES-His pH = 5.7; $V_{inj} = +750$ V for 5 s, $V_{sep} = +1000$ V, $E_d = +0.75$ V (vs. Pt).

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