Microchip Holder
The chip holder (ref. ENC-SUB-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 µm Ø) 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 x 13 mm (ref. MCE-SUB-xxx00XT).
Microchip Holder

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

- **top part**
  - Sample reservoir
  - Buffer reservoir
  - Waste reservoir
  - Platinum HV electrodes
  - Electrical contacts on integrated PCB

- **bottom part** (chip accommodation)
  - Detection reservoir
Microchip Holder

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

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; \( V_{\text{inj}} = +750 \) V for 2 s, \( V_{\text{sep}} = +1000 \) V, \( E_d = +0.75 \) V (vs. Pt).

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; \( V_{\text{inj}} = +750 \) V for 5 s, \( V_{\text{sep}} = +1000 \) V, \( E_d = +0.75 \) V (vs. Pt).
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