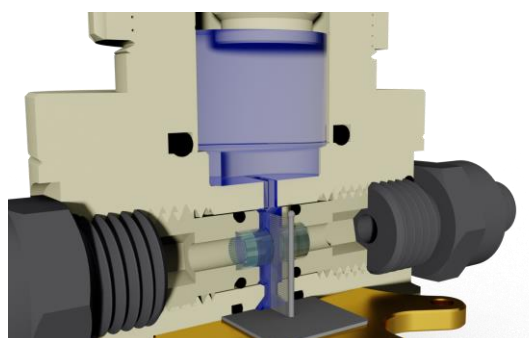


A must have for UV/Vis spectro-electrochemistry



The TSC Spectro cell enables **UV/Vis spectro-electrochemical studies in transmission configuration** on solutions of **air- and moisture-sensitive redox- and UV/Vis-active species**, requiring only a **small volume of electrolyte**. A **platinum mesh** is used as working electrode and **glassy carbon** as counter electrode. By default, the cell comes with **quartz glass windows**, whose **distance from each other can be adjusted**. The PEEK housing, as well as the cap, provide **ports for the insertion of reference electrodes and capillaries**.

Typical Applications:

- Investigations on **UV/Vis active redox species**
- **Permeability determination of membranes** for UV/vis active molecules
- Determination of the **life time** of short living intermediary species

Suggested Accessories



840101

Microcell HC
Basic Package



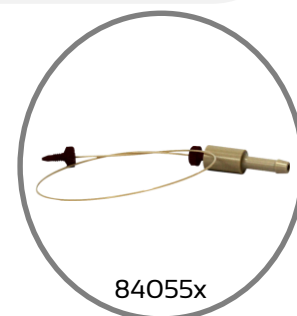
840582

Microcell
Passive



84052x

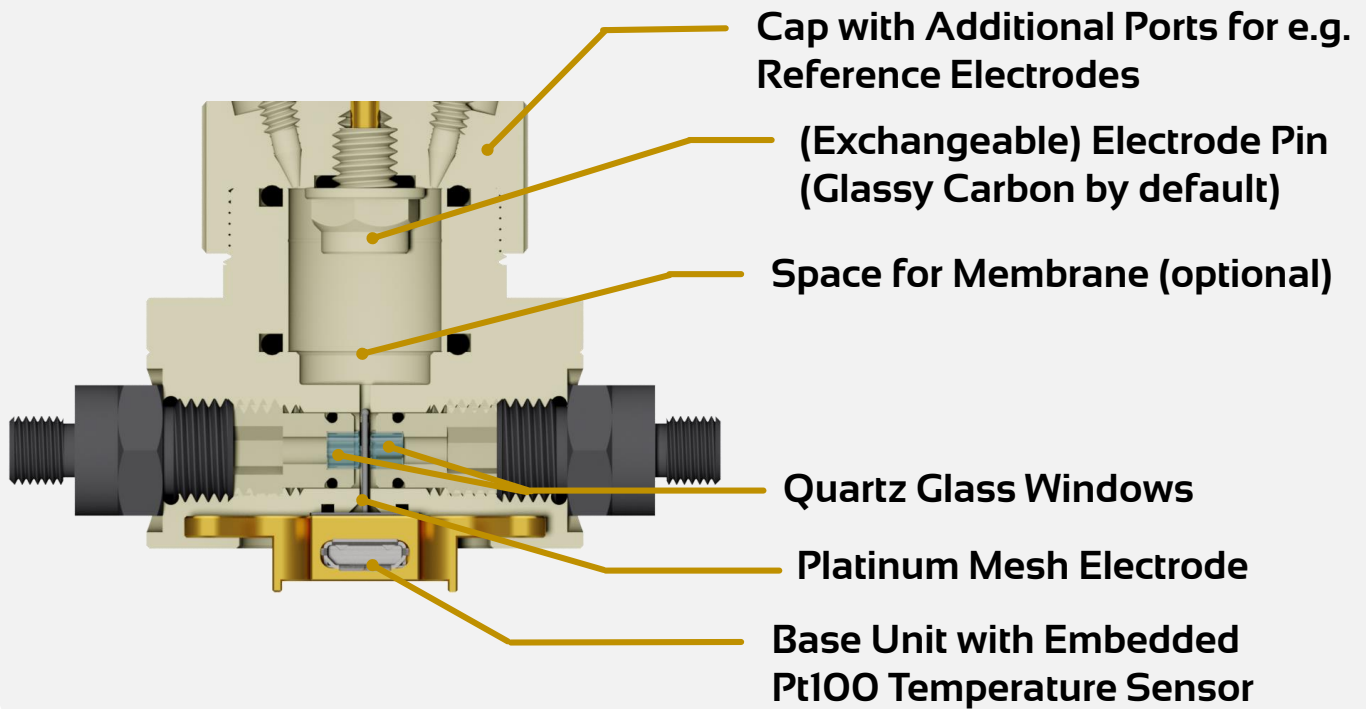
Micro-Reference
Electrodes



84055x

Gas Inlet &
Filling Set





Technical Specifications

Suitable samples:	Solutions of redox- and UV/vis-active species
Temperature range:	-20 °C ↔ +80 °C
Materials in sample contact:	PEEK, FFKM/EPDM, platinum, glassy carbon, quartz glass
Sample volume (standard)	2 ml
Min. sample volume (elongated counter electrode)	0.5 ml
Pt mesh electrode	152x152 wires/inch 56% open area
Options:	<ul style="list-style-type: none"> • Alternative counter electrode materials • Re-fillable reference electrode

References

[1] D.-L. Versace et al., 'Highly Virulent Bactericidal Effects of Curcumin-Based μ -Cages Fabricated by Two-Photon Polymerization', *ACS Appl. Mater. Interfaces* (2020), 12, 5050.

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[2] L. Lohmeyer et al., '1,2,5,6-Tetrakis(guanidino)-Naphthalenes: Electron Donors, Fluorescent Probes and Redox-Active Ligands', *Chem. Eur. J.* (2020) 26, 26, 5834.

<https://doi.org/10.1002/chem.201905471>

[3] L. Finger et al., 'Halide-Free Synthesis of Hydrochalcogenide Ionic Liquids of the Type [Cation][HE] (E=S, Se, Te)', *Chem. Eur. J.* (2016) 22, 12, 4218.

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