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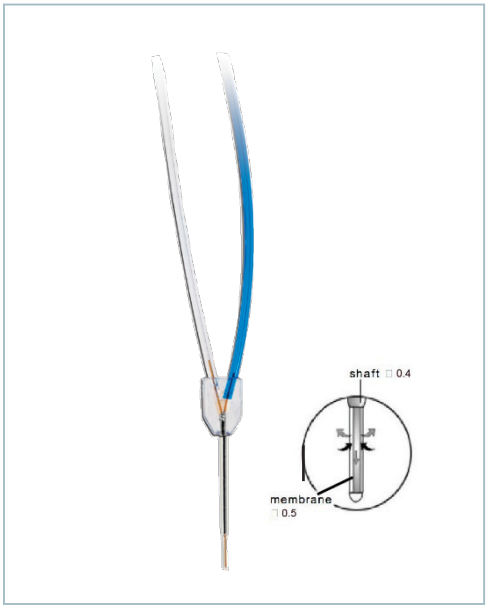
CMA 8 Elite Microdialysis Probe User's Manual



TECHNICAL INFORMATION	
Membrane	
Material	Polyarylethersulfone (PAES)
Molecular Cut-Off	20,000 Daltons
Outer Diameter	0.5 mm
Length	1 and 2 mm
Probe Shaft	
Material	Stainless-steel
Diameter	0.4 mm
Length	7 mm
Internal Volume	
Inlet Volume	0.06 µL
Outlet Volume	1 mm; 0.5 µL 2 mm: 0.6 µL
200 mm Inlet tubing (blue) ID: 0.15 mm	3.5 µL
200 mm Outlet tubing (transp) ID: 0.15 mm	3.5 µL

Instructions for CMA 8 Elite Microdialysis Probe	
1.	Fill a microsyringe with perfusion fluid and mount it in the CMA Syringe Pump. The Perfusion Fluid must be clean, at room temperature, and preferably degassed.
2.	Run the pump to make sure that liquid leaves the tip of the syringe cannula.
3.	Attach the Microdialysis probe to a CMA 7 & 8 Probe/Guide Clip on the CMA 130 *In Vitro* Stand. Remove the protection tube carefully. Put the probe membrane into a vial filled with perfusion fluid.
4.	Connect a Tubing Adapter to the blue inlet tubing of the Microdialysis probe and connect it to the syringe cannula by sliding the Tubing Adapter over the cannula. **To facilitate the handling of Tubing Adapters, they should be soaked in Ethanol for a minimum of 10 minutes.**
5.	Connect the inlet tubing of the microdialysis probe to the syringe cannula, by sliding the Tubing Adapter over the cannula. Wait for 10 min. The Tubing Adapter must be dry before flushing.
6.	Flush the probe with 10-15 µL/min in the Perfusion Fluid for 4-5 min to wash out air. Check for air bubbles inside the membrane with a stereomicroscope. The membrane is light blue when wetted, air bubbles occur as whiter spots. When flushing the membrane may appear to be "sweating" which is due to the ultrafiltration of fluid through the membrane.
7.	Set the pump to the required perfusion flow (usually 1-5 µL/min) and check for leaks. The microdialysis probe is now ready for use.
8.	When changing sample vials, remember to consider the internal volume in the system (see TECHNICAL INFORMATION). This causes a delay that must be calculated when using low perfusion rates and short sampling times.

9.	After the experiment, put the microdialysis probe in a vial filled with deionized water. Perfuse with deionized water to prevent salt crystal formation. The probe can be stored in deionized water.

ORDER INFORMATION	Ref No.
CMA 8 Elite Microdialysis Probe, 1 mm, 3/pkg	CMA 8012201
CMA 8 Elite Microdialysis Probe, 2 mm, 3/pkg	CMA 8012202
CMA 8 Guide Cannula, 3/pkg	CMA 8012310
Tubing Adapter, 10/pkg	CMA 3409500
FEP Tubing, 1 m, 1/pkg	CMA 3409501
FEP Tubing, 1 m, 10/pkg	CMA 8409501
Tubing Connector, 3/pkg	CMA P000113
CMA7& 8 ProbeClip	CMA P000136
Perfusion Fluid CNS, 5 ml, pkg. of 10	CMA P000151

OPTIONAL ACCESSORIES	Ref. No
CMA 4004 Syringe Pump	CMA 400400
CMA 402 Microdialysis Pump with	
Accessory Kit	CMA 8003100
CMA 402 Microdialysis Pump	CMA 8003110
CMA 110 Liquid Switch	CMA 8308200
Microsyringes 1 mL	CMA 8309020
Microsyringes 2.5 mL	CMA 8309021
For other probes and microdialysis accessories please call your local CMA Microdialysis dealer.	

WARRANTY

The probes manufactured by CMA Microdialysis are warranted to be free from defects in material and workmanship for a period of two years from the manufacturing date if stored in the original package.
Claims should be forwarded without delay to CMA Microdialysis or to your local distributor.

The CMA 8 Elite Microdialysis Probe is not intended for use in humans. It is only suitable for laboratory research in animals.
CMA Microdialysis only guarantees single usage of CMA 8 Microdialysis Probes.

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