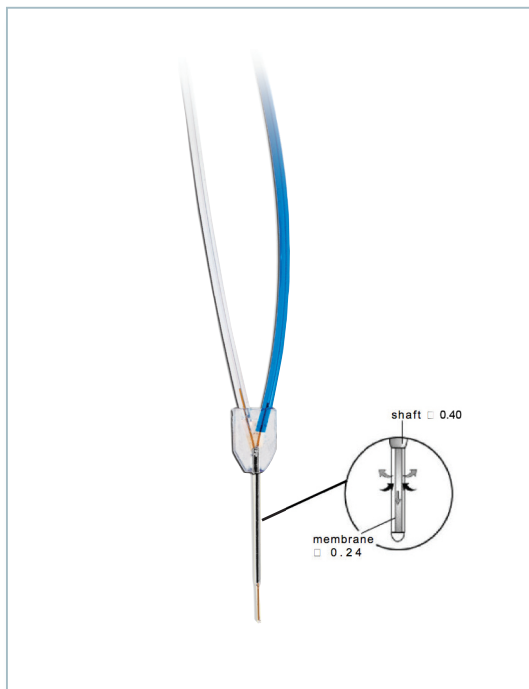


## CMA 7 6 kDa Microdialysis Probe User's Manual



### TECHNICAL INFORMATION

#### Membrane

Material	Cuprophane
Molecular Cut-Off	6,000 Daltons
Outer Diameter	0.24 mm
Length	1 and 2 mm

#### Probe Shaft

Material	Stainless-steel or Metal Free
Diameter	0.40 mm
Length	7 mm

#### Internal Volume

Inlet Volume	0.06 $\mu$ L
Outlet Volume	0.3 $\mu$ L
200 mm Inlet Tubing (blue)	3.5 $\mu$ L
200 mm Outlet Tubing (transparent)	3.5 $\mu$ L

### Instructions for CMA 7 6 kDa Microdialysis Probe

1. Fill a microsyringe with Perfusion Fluid and mount it in the CMA Microinjection 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. Mount the microdialysis probe in the CMA 7 & 8 Probe/Guide Clip. Put the probe in a vial filled with Perfusion Fluid on the CMA 130 *in vitro* Stand.  
**To facilitate the handling of Tubing Adaptors, they should be pre-soaked in ethanol for a minimum of 10 minutes.**
4. Connect a Tubing Adaptor to the blue inlet tubing of the microdialysis probe and then connect it to the syringe cannula, by sliding the Tubing Adapter over the cannula. Wait for 10 minutes. The Tubing Adapter must be dry before using.
5. Flush the probe with a flow rate of 10-15  $\mu$ L/min, lowered in a vial filled with 70% ethanol. Pump the perfusate for 4-5 min to wash out the glycerol.
6. Put the probe back into the vial filled with Perfusion Fluid. Flush for another 4-5 min to wash out the ethanol and air.  
**Check for air bubbles inside the membrane with a stereomicroscope.** The membrane may appear to be "sweating" which is due to ultrafiltration of fluid through the membrane.
7. Set the pump to the required perfusion flow, usually 1-5  $\mu$ L/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.

ORDER INFORMATION	Ref No.	OPTIONAL ACCESSORIES	Ref No.
CMA 7 6kDa Microdialysis Probe, 1 mm, 3/pkg	CMA P000082	CMA 4004 Syringe Pump	CMA 400400
CMA 7 6kDa Microdialysis Probe, 2 mm, 3/pkg	CMA P000083	CMA 402 Microdialysis Pump with Accessory Kit	CMA 8003100
CMA 7 6kDa Metal Free Probe, 1 mm, 3/pkg	CMA 8010771	CMA 402 Microdialysis Pump	CMA 8003110
CMA 7 6kDa Metal Free Probe, 2 mm, 3/pkg	CMA 8010772	CMA 110 Liquid Switch	CMA 8308200
CMA 7 6kDa Probe $\beta$ -Irradiated, 1 mm, 3/pkg	CMA 8010681	CMA 130 In Vitro Stand with CMA 7 clips	CMA 8309104
CMA 7 6kDa Probe $\beta$ -Irradiated, 2 mm, 3/pkg	CMA 8010682	CMA 142 Microfraction Collector 230V	CMA 8381142
CMA 7 Guide Cannula, 3/pkg	CMA P000137	CMA 142 Microfraction Collector 115V	CMA 8381143
CMA 7 Guide Cannula, 30/pkg	CMA P000138	CMA 470 Refrigerated Fraction Collector	CMA 8002770
CMA 7 Guide Metal Free, 3/pkg	CMA 8010773	Microsyringes 1 mL	CMA 8309020
CMA 7 Guide $\beta$ -Irradiated, 3/pkg	CMA 8010683	Microsyringes 2.5 mL	CMA 8309021
CMA 7 Guide $\beta$ -Irradiated, 30/pkg	CMA 8010684	For other probes and microdialysis accessories please call your local CMA Microdialysis dealer.	
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		
CMA 7 & 8 Probe Clip	CMA P000136		

## WARRANTY

The probes manufactured by CMA Microdialysis are warranted to be free from defects in material and workmanship for a period of one year 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 7 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 7 Microdialysis Probes.*



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