

- For use in brain tissue
- “Gold tip” visible on CT
- 100 000 Dalton Cut-Off dialysis membrane

71 High Cut-Off Brain Microdialysis Catheter

Intended Purpose

The Brain Microdialysis Catheter is intended to enable microdialysis of the extracellular (interstitial) fluid of the brain tissue.

Minimally Invasive

The sterile, single use 71 High Cut-Off Brain Microdialysis Catheter is minimally invasive and designed for implantation in brain tissue. The most important characteristic of the catheter is the dialysing membrane that has pores big enough to allow diffusion of large molecules such as cytokines. The catheter is available in different membrane lengths 10 mm, 20 mm or 30 mm suitable for different target areas in the brain. When implanting the catheter it is first tunneled under the scalp, then easily introduced into the brain using a special forceps through a hole drilled in the skull bone.

The gold tip makes the catheter visible on CT

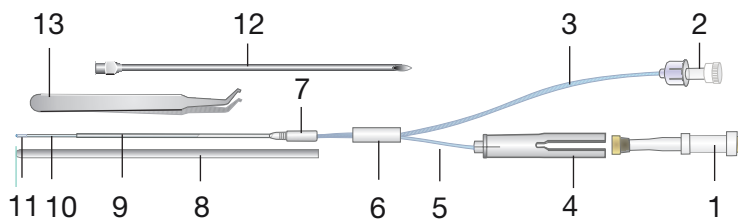
The tip of the catheter contains a gold thread. The “Gold tip” is visible on CT-scanning and makes it possible to locate the exact position of the catheter.

Monitoring tissue chemistry

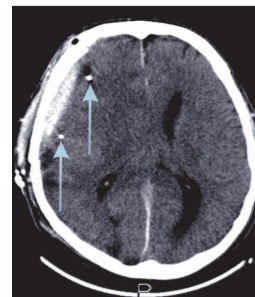
The 71 High Cut-Off Brain Microdialysis Catheter is connected to a Microdialysis Pump. To avoid ultrafiltration of the dialysis membrane, the catheter should be perfused with Perfusion fluid CNS Dextran. The outlet tube extends to a holder for a microvial that collects the dialysis sample.

The microdialysis samples can be analyzed in the ISCUSflex Microdialysis Analyzer for Glucose, Lactate, Pyruvate, Glycerol, Glutamate and Urea or sent to a clinical laboratory for analysis of large molecules such as cytokines.

Parts of the 71 High Cut-Off Brain Microdialysis Catheter



1. Microvial (polystyrene + santoprene)
2. Luer lock connection (polycarbonate)
3. Inlet tube (polyurethane)
4. Vial holder (polycarbonate)
5. Outlet tube (polyurethane)
6. Stopper (silicone)
7. Liquid cross (polysulfone)
8. Protection tube (polyethylene)
9. Shaft (polyurethane)
10. Dialysis membrane (polyethersulfone)
11. Gold thread within the catheter tip
12. Tunneling needle - accessory
13. Forceps - accessory



The distal part of the catheter has a gold thread (3 x 0.13 mm) within the catheter tip, which makes the catheter location in the tissue visible on CT

Technical information

	MATERIAL	LENGTH mm			Ø mm
		8010320	8010331	8010337	
shaft	polyurethane	60	60	60	OD 0.9
membrane	polyarylethersulphone, PAES	10	20	30	OD 0.6
inlet tube	polyurethane	600	600	600	OD 1.0
outlet tube	polyurethane	220	220	220	OD 1.0

membrane cut-off 100 000 Dalton

Ordering information

	Ref. No.
71 High Cut-Off Brain Microdialysis Catheter 60/10 4/pkg	8010320
71 High Cut-Off Brain Microdialysis Catheter 60/20 4/pkg	8010331
71 High Cut-Off Brain Microdialysis Catheter 60/30 4/pkg	8010337

Accessories/Consumables

	Ref. No.		Ref. No.
Tunneling needle	P000055	106 Microdialysis Pump, 1pc	P000003
Forceps	P000056	107 Microdialysis Pump, 1pc	P000127
Microvials 250/pkg	P000001	106 Pump Syringe 20/pkg	8010191
Microvial Rack 12/pkg	P000028	Battery 6V	8001788
Microvials in rack, Sterile 12x4	P000154	Perfusion Fluid CNS DEXTRAN 2x7,5mL	8050151

STERILE Sterilized by β -radiation

Storage temperature: 4-25 °C

Single use only

Last date of use

CE₂₈₆₂ Fulfills EU Medical Device Regulation (MDR) 2017/745

MD Medical Device

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