



- For use in brain tissue
- “Gold Tip” visible on CT

## 70 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 70 Brain Microdialysis catheter is minimally invasive and designed for implantation in brain tissue. The dialysing membrane has been especially developed to achieve optimal diffusing characteristics. This allows a high recovery of substances from the extracellular fluid into the catheter.

The membranes are available in 10 and 20 mm lengths, suitable for different target areas in the brain. The shaft is also available in different lengths making it possible to introduce the catheter by hand or stereotaxically. When introducing the catheter by hand the catheter is tunneled under the scalp with a tunneling needle. It is 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.

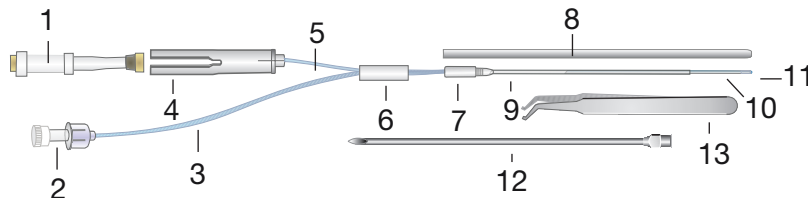
### Early detection of local tissue chemistry changes

Tissue chemistry changes can occur before the patient shows any clinical signs.

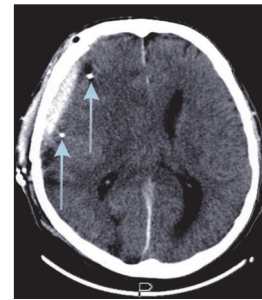
The 70 Brain Microdialysis catheter offers to collect samples manually in Microvials for analysis of Glucose, Lactate, Pyruvate, Glycerol, Glutamate and Urea in ISCUSflex Microdialysis Analyzer.

For research purposes the collected samples can be further analyzed by various techniques such as HPLC.

## Parts of the 70 Brain Microdialysis Catheter



1. Microvial - consumable (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 (polyarylethersulphone)
11. Gold thread within the catheter tip
12. Tunnelating 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
		P000049	P000050	P000080	
shaft	polyurethane	60	100	60	OD 0.9
membrane	polyarylethersulphone	10	10	20	OD 0.6
inlet tube	polyurethane	600	600	600	OD 1.0
outlet tube	polyurethane	220	220	220	OD 1.0

membrane cut-off 20 000 Dalton

## Ordering information

	Ref. No.
70 Brain Microdialysis Catheter 60/10 4/pkg	P000049
70 Brain Microdialysis Catheter 100/10,4/pkg	P000050
70 Brain Microdialysis Catheter 60/20,4/pkg *	P000080

\* Only produced on order.

## Accessories/Consumables

	Ref. No.		Ref. No.
Tunnelating needle, 1pc	P000055	106 Microdialysis Pump, 1pc	P000003
Forceps, 1pc	P000056	107 Microdialysis Pump, 1pc	P000127
Microvials 250/pkg	P000001	106 Pump Syringe 20/pkg	8010191
Microvial Rack 12/pkg	P000028	Perfusion Fluid CNS 10x7,5mL	P000151
Microvials in rack, Sterile 12x4	P000154	Battery 6V, 1pc	8001788
Pump kit brain tissue, 1pc	8003791		



Sterilized by  $\beta$ -radiation



Storage temperature: 4-25 °C



Single use only



Last date of use



Fulfils EU Medical Device Regulation (MDR) 2017/745



Medical Device