

- For bolt implantation
- “Gold Tip” visible on CT
- 100 000 Dalton Cut-Off dialysis membrane
- Reinforced shaft

## 71 High Cut Off Microdialysis Bolt Catheter

This sterile, single use microdialysis catheter is minimally invasive and designed for implantation in brain tissue through the PTO 2L bolt kit from Raumedic or the IM3 Bolt Kit Integra. The catheter has a 130 mm long shaft and a membrane length of 10 mm. The shaft has a reinforced stainless steel section measuring 16.5 mm in length. This reinforcement is located where the compression screw of the bolt is to be tightened.

The most important characteristic of this microdialysis catheter is the dialysing membrane that has pores big enough to allow diffusion of large molecules such as cytokines.

### The “Gold tip” makes the catheter visible on CT

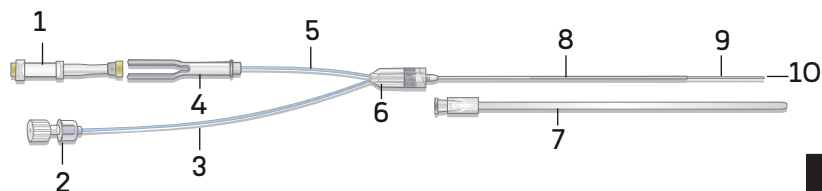
The tip of the catheter contains a gold thread. The “Gold tip” is visible on CT-scanning and makes it possible to locate the exact position of the catheter.

### Sampling of large molecules

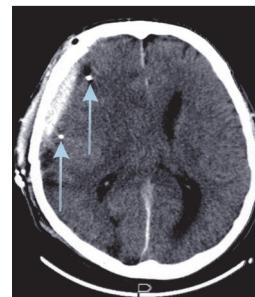
The 71 High Cut-Off Bolt Microdialysis Catheter is connected to a Microdialysis Pump. To avoid ultrafiltration of the dialysis membrane, the catheter should be perfused with Perfusion fluid CNS Dextran. The outlet tube extends to a holder for a microvial that collects the dialysis sample.

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 Microdialysis Bolt Catheter



1. Microvial (polystyrene + santoprene)
2. Luer lock connection to syringe (polycarbonate)
3. Inlet tube (polyurethane)
4. Vial holder (polycarbonate)
5. Outlet tube (polyurethane)
6. Liquid cross with luerlock connection (ABS)
7. Protection tube (polyethylene)
8. Shaft (polyurethane) with a 16.5 mm stainless steel re-inforcement
9. Dialysis membrane (polyarylethersulfone, PAES)
10. Gold thread within the catheter tip



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
shaft	polyurethane	130	OD 0.9
membrane	polyarylethersulfone (PAES)	10	OD 0.6
inlet tube	polyurethane	600	OD 1.0
outlet tube	polyurethane	220	OD 1.0
membrane cut-off 100,000 Dalton			

## Ordering information

	Ref. No.
71 High Cut Off Microdialysis Bolt Catheter 4/pkg	8010954

## Accessories

	Ref. No.		Ref. No.
106 Microdialysis Pump, 1pc	P000003	Microvials 250/pkg	P000001
107 Microdialysis Pump, 1pc	P000127	Microvial Rack 12/pkg	P000028
106 Syringe 20/pkg	8010191	Microvials in rack, Sterile 12x4	P000154
Battery 6V	8001788	Perfusion Fluid CNS Dextran 2x5mL	8050151

CE<sub>0413</sub> CE marked according to the Medical Device Directive, 93/42/EEC

STERILE Sterilized by  $\beta$ -radiation

Storage temperature: 4-25 °C

Single use only

Shelf life: 2 years from the manufacturing date

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