

- For bolt implantation
- "Gold Tip" visible on CT
- For use in brain tissue

## 70 Microdialysis Bolt Catheter

### Intended Purpose

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

### Minimally Invasive

The sterile single use 70 Bolt 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 from 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 dialysing membrane of the catheter has been especially developed to achieve optimal diffusing characteristics. This allows a high recovery of substances from the extracellular fluid into the catheter.

### 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 in the brain

The 70 Bolt Microdialysis Catheter offers to collect samples manually in Microvials for analysis of Glucose, Lactate, Pyruvate, Glycerol, Glutamate and Urea in ISCUSflex Microdialysis Analyzer and gives the opportunity for early detection of local tissue changes in the brain.

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

$\mu$  dialysis

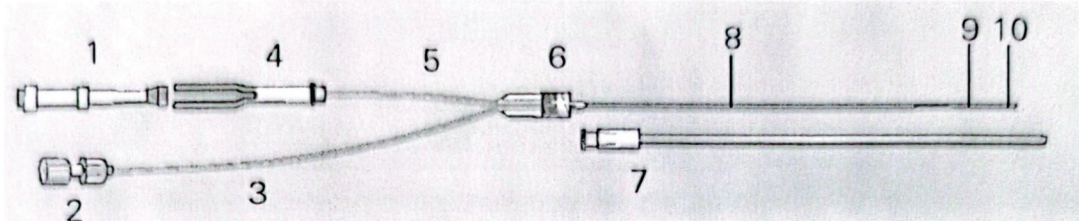


## Naudojimo instrukcija 70 MICRODIALYSIS BOLT CATHETER

### NUMATYTA PASKIRTIS

Smegenų mikrodializės varžto kateteris skirtas smegenų audinio ekstraląstelinio (intersticinio) skysčio mikrodializei.

### PRODUKTO APIBŪDINIMAS IR TECHNINĖ INFORMACIJA



	REF P000131
1. Mikrobuteiliukas (Polistirenas + Santoprenas)	-
2. Luer jungtis (Polikarbonatas)	-
3. Įleidimo vamzdelis (Polikarbonatas, išorinis diametras (ID) 1 mm)	600 mm
4. Buteliuko laikiklis (Polikarbonatas)	-
5. Ištekėjimo vamzdelis (Polikarbonatas, ID 1 mm)	220 mm
6. Skysčių prasilenkimas (ABS)	-
7. Vamzdelio apsauga (Polikarbonatas)	145 mm
8. Darbinė dalis (Poliuretanai, ID 0.9 mm, nerudijantis plienas)	130 mm
9. Dializės membrana (Poliaterinis eterinis sulfonas, ID 0.6 mm) Tvirtumas: 20 000 Daltonų	10 mm
10. Auksinis markeris kateterio membranos gale ID 0.13 mm	3 mm
11. Skysčio tekėjimo laikas nuo membranos iki buteliuko (esant 0.3 µl/min)	23 min

Distalinė kateterio dalis turi auksinį markerį kateterio galiuke, kurio pagalba galima aptikti kateterio vietą audiniuose kompiuterinio skenavimo metu.

### PRIEDAI

70 Bolt Microdialysis Catheter gali būti naudojamas tik su šiais priedais:

REF	Pavadinimas	REF	Pavadinimas
P000151	Perfusion fluid CNS 10x5mL	P000003	106 Microdialysis Pump
8010191	106 Syringe 20/pkg	P000127	107 Microdialysis Pump

### CONSUMABLES


70 Microdialysis Bolt Catheter turėtų būti naudojamos kartu su šiomis eksploatacinėmis medžiagomis.

REF	Pavadinimas
P000001	Microvials 250/pkg
P000154	Microvials in rack, Sterile 12x4
RAUMEDIC, Art. 096076-001	BOLT KIT - PTO 2L Varžto rinkinys dviem smegenų davikliams
INTEGRA REF IM3 Licox®	IM3, Varžto rinkinys trimis smegenų davikliams

### INDIKACIJOS

Pacientai su klinikiniais pažeistų smegenų ar smegenų ligos simptomais, kada gydymui ar diagnozei yra reikalinga kraniotomija pvz. Iššėminių pacientų monitoravimas, kenčiančių nuo smegenų sužeidimų ir subarachnoidinės hemoragijos. Sistema skirta tik mikrodializės, gautos iš M Dialysis kateterių, perfuzuotų M Dialysis pompomis, naudojant M Dialysis perfuzijos skysčius, analizei. Mikrodializė neturėtų būti naudojama kaip vienintelis diagnostavimo ir terapijos metodas.

Art no	Label	short Description
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**70 Microdialysis Bolt Catheter** 

**REF** P000131 **MD** **μ dialysis**

**LOT** T12345

2026-06-19 4 °C 25 °C

Rx Only

**STERILE R**

Membrane PAES  
Membr. length 10 mm  
Cut-off 20 000 Dalton  
Shaft length 130 mm  
Inlet 600 mm  
Outlet 220 mm


(01)07332699000577  
(10)T12345  
(11)240619  
(17)260619

2024-06-19  
M Dialysis AB, Hammarby Fabriksv. 43, SE-120 30 Stockholm, Sweden  
US Office: 73 Princeton St, N Chelmsford, MA 01863, USA

CE 2862

P000131

label on box of 4 70 Bolt MD cat

**70 Microdialysis Bolt Catheter** 

**REF** P000131 **MD** **μ dialysis**

**LOT** T12345

2026-06-19 4 °C 25 °C

Rx Only

**STERILE R**

Membrane PAES  
Membr. length 10 mm  
Cut-off 20 000 Dalton  
Shaft length 130 mm  
Inlet 600 mm  
Outlet 220 mm

(01)07332699000973  
(10)T12345  
(11)240619  
(17)260619

2024-06-19  
M Dialysis AB, Hammarby Fabriksv. 43, SE-120 30 Stockholm, Sweden  
US Office: 73 Princeton St, N Chelmsford, MA 01863, USA

CE 2862

P000131

label on single 70 Bolt MD cath

**MD pump kit, brain tissue** **μ dialysis**

for Microdialysis Catheter & Microdialysis Pump

1 x Perfusion Fluid CNS  
1 x 106 Syringe  
1 x Battery

**REF** 8003791

**LOT** T12345

2022-11-23

**STERILE**

(01)07332699001062  
(10)T12345  
(11)221123  
(17)221123

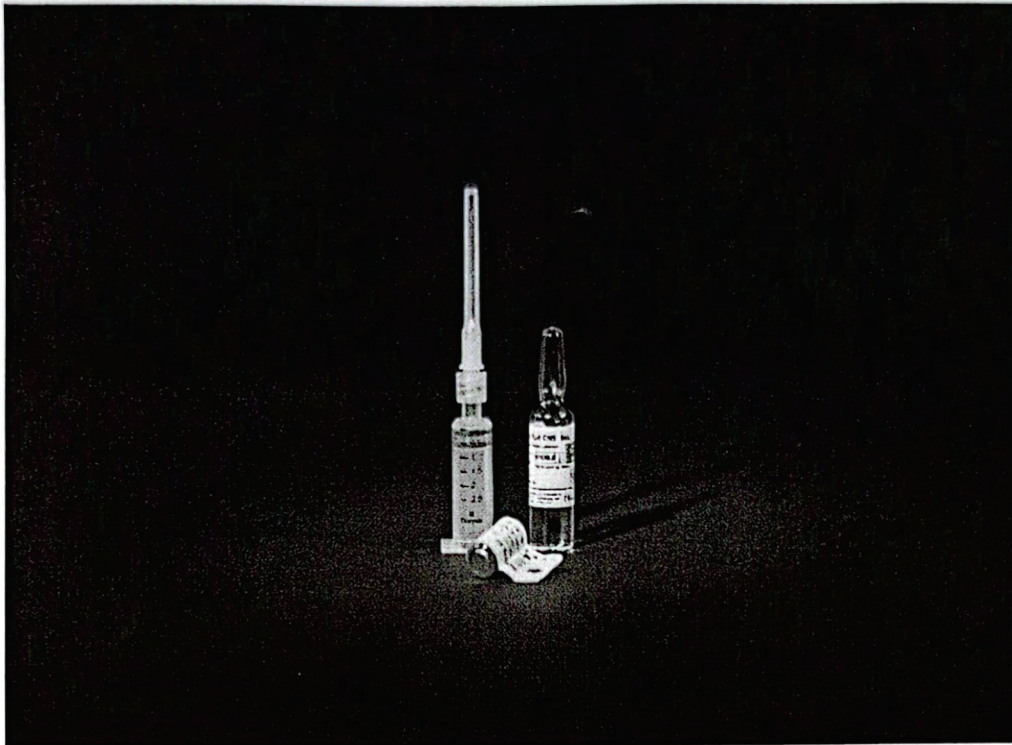
2022-11-23  
M Dialysis AB, Hammarby Fabriksv. 43, SE-120 30 Stockholm, Sweden  
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8003791

Label on Pumpkit box



# Microdialysis Pump Kit



## MD Pump Kit, Brain Tissue

This Pump Kit includes the accessories needed for single patient microdialysis monitoring in brain tissue. The kit contains a 106 syringe, a battery and a CNS perfusion fluid ampoule necessary for running the 106 and 107 Microdialysis Pumps. The Pump Kit reduces preparation time and allows new users to cost-effectively become familiar with microdialysis.

NOTE: This product may not be approved by your national regulatory authorities. Please contact your local representative for further information.

For USA customers: CAUTION Investigational device. Limited by Federal (or United States) law to investigational use.