



Microdialysis Checklist

Thank you for your interest in our products. By answering the questions below we can help you choose the right probe and accessories for your microdialysis experiment. This document has writable fields and checkboxes and once complete can be submitted through our [support center](#), cma@microdialysis.se, or your representative.

Contact Information

Name: _____
Institution: _____
City: _____ State: _____ Postcode: _____
Country: _____ Phone: _____
Email: _____

Can you please describe your microdialysis experiment?

Experimental Design

What Type of Experiment will you perform?

- ☐ Neuroscience
- ☐ PK/PD
- ☐ Toxicology
- ☐ Metabolism
- ☐ Behavioral
- ☐ Cancer Research
- ☐ Infection Diseases
- ☐ Pain Research
- ☐ Tissue Engineering
- ☐ Cardiovascular
- ☐ Gastrointestinal

Other: _____

What Animal?

- ☐ Rats
- ☐ Mice
- ☐ Other: _____

What Organ?

For CNS please specify target area.

For Peripheral please specify target organ/tissue.

Choosing a probe

In this section you will indicate which probe, membrane length and molecular weight cut-off you will need for your experiment.

If you do not know or are unsure, please check here

Rat CNS		CMA 11	CMA 12
CMA 11 Probe	CMA 12 Probe	Membrane Length	Membrane Length
		☐ 1 mm ☐ 2 mm ☐ 3 mm ☐ 4 mm	☐ 1 mm ☐ 2 mm ☐ 3 mm ☐ 4 mm
		Molecular Weight Cut-Off ☐ 6 kDa (OD: 0.24 mm) ☐ 55 kDa (OD: 0.26 mm) ☐ 500 kDa (OD: 0.28 mm) ☐ 2 MDa (OD: 0.28mm)	Molecular Weight Cut-Off ☐ 20 kDa (OD: 0.5 mm) ☐ 100 kDa (OD: 0.5 mm)

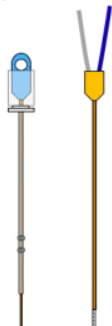
Mouse CNS		CMA 7	CMA 8
CMA 7/8		Membrane Length	Membrane Length
		☐ 1 mm ☐ 2 mm	☐ 1 mm ☐ 2 mm
		Molecular Weight Cut-Off ☐ 6 kDa (OD: 0.24 mm) ☐ 55 kDa (OD: 0.26 mm) ☐ 500 kDa (OD: 0.28 mm) ☐ 2 MDa (OD: 0.28mm)	Molecular Weight Cut-Off ☐ 20 kDa (OD: 0.5 mm) ☐ 100 kDa (OD: 0.5 mm)
			NOTE: CMA 7/8 have 20cm of outlet tubing

Peripheral	CMA 20	CMA 30 / CMA 31
	Membrane Length	Membrane Length
	☐ 4 mm ☐ 10 mm ☐ 30 mm	☐ 10 mm
	Molecular Weight Cut-Off ☐ 20 kDa (OD: 0.5 mm) ☐ 100 kDa (OD: 0.5 mm)	Molecular Weight Cut-Off ☐ 6 kDa (OD: 0.24 mm) ☐ 55 kDa (OD: 0.26 mm) ☐ 500 kDa (OD: 0.28 mm) ☐ 2 MDa (OD: 0.28 mm)
	Note: CMA 20 has 20cm of outlet tubing	

Peripheral

CMA 22

CMA 22



Membrane Length

☐ 3 mm

☐ 4 mm

Molecular Weight Cut-Off

☐ 6 kDa (OD: 0.24 mm)

☐ 20 kDa (OD: 0.5 mm)

☐ 55 kDa (OD: 0.26 mm)

☐ 100 kDa (OD: 0.5 mm)

☐ 500 kDa (OD: 0.28 mm)

☐ 2 MDa (OD: 0.28 mm)

Choosing a Guide

Do you need a guide?

☐ No

☐ Yes

☐ Unsure

Do you need a custom probe and/or guide?

☐ No

☐ Yes

☐ Unsure

If Yes, please download and submit our custom guide and probe form found on our [support center](#). Note: a support center log in is required to access this form.

Analyte Parameters

What substances are you planning to recover?

☐ Neurotransmitters

☐ Cytokines

☐ Peptides

☐ Drug

☐ Proteins

☐ Other, Please Specify

Other:

What is the Molecular Weight in Dalton of your analyte?

Large Molecular Weight Molecules

Questions for customers interested in 100 kDa, 500 kDa, and 2 MDa MWCO membranes.

Do you need a Push/Pull System for Large Molecules?

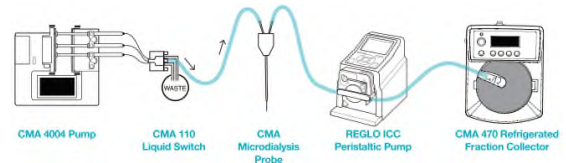
- ☐ No
- ☐ Yes
- ☐ Unsure



Animal Handling

Will your experiment be:

- ☐ Awake behaving
- ☐ Sedated



If awake-behaving do you need a Freely Moving Animal System?

- ☐ No
- ☐ Yes

If Yes, do you want information for the companion Table used with the Freely Moving Animal System?

- ☐ No ☐ Yes
- ☐ I need more information

How many animals will you need to perform Microdialysis on several animals simultaneously?

- ☐ No
- ☐ Yes, Number of Animals: _____

How many probes will be used simultaneously on each animal?

- ☐ One
- ☐ Other: _____

Experimental Design

Duration of experiment

Do you plan to perform intermittent microdialysis?

☐ No

☐ Yes, please specify below:

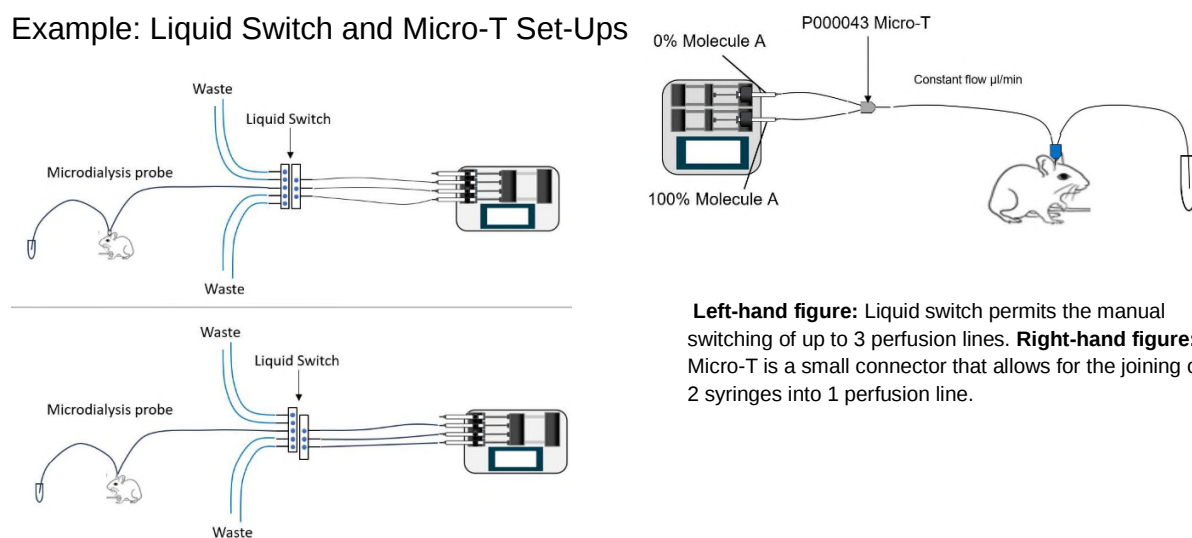
Number of fractions per experiment:

Do you want to change perfusion fluid during the experiment?

☐ No

☐ Yes

Example: Liquid Switch and Micro-T Set-Ups



Left-hand figure: Liquid switch permits the manual switching of up to 3 perfusion lines. **Right-hand figure:** Micro-T is a small connector that allows for the joining of 2 syringes into 1 perfusion line.



Do you need a Microdialysis Pump?

☐ No

☐ Yes

If Yes, how many syringes/pump?

☐ 2

☐ 3

☐ 4

Should all syringes have the same flow rate?

☐ No

☐ Yes

Do you need independent control of each syringe?

☐ No

☐ Yes

1-2 Syringes	4 Syringe Pump	Up to 8 syringes/modules	2 Syringes	2-4 Channel Peristaltic Pump
				
Pump 11 Pico Elite	CMA 4004	HA Pump Controller	Pump 33 DDS	REGLO ICC

Do you need a Syringe?

☐ No

☐ Yes

If Yes, what size: ☐ 1.0 ml ☐ 2.0 ml ☐ 5.0ml ☐ 10.0 ml

What microdialysis accessories do you need?

☐ Tubing Adapters, 10/pkg

☐ FEP Tubing 1m, pkg 10

☐ Perfusion Fluid CNS

☐ Perfusion Fluid Peripheral Tissue

☐ Trephine Drill Bits (2mm hole for rat skulls)

☐ Drill Bit (Makes burr hole for mouse skulls)

☐ Anchor Screw Drill Bits

☐ Anchor Screws, 100/pkg

☐ Screwdriver for Anchor Screws

Vials & Caps:

☐ Plastic 300µl

☐ Plastic resealing

Do you need a refrigerated Fraction Collector?

☐ No

☐ Yes



What surgical accessories do you need?

- ☐ Stereotaxic Instrument
- ☐ Bone Drill
- ☐ Homeothermic Monitoring System (Temperature Control)
- ☐ Anesthesia Systems
- ☐ Ventilators
- ☐ [Behavioral Products](#)

Still have questions?

We would be happy to schedule time with you to discuss your application and specific requirements. Please follow this [LINK](#) to schedule time with us.

Anything else we should know?