

Mediator lipidomics - Quick Guide

Samples

Cell culture

- 2 - 6 million cells are needed. This typically corresponds to a subconfluent 10 cm plate/T75 flask.
- Wash the cells 3x with cold PBS or physiological saline.
- Collect the cells with a cell scraper or by trypsinisation.
- Pellet the cells in 1.5 mL tubes by centrifugation at 2000g for 5 min.
- Remove supernatant and freeze the cell pellet at -80°C.

Tissue

- 10 - 50 mg tissue is needed.
- Freeze the fresh tissue at -80°C without any buffer.

Conditioned medium

- 10 mL is needed, freeze at -80°C. Avoid phenol red.

Plasma / serum

- 100-500 µL is needed, freeze at -80°C.
- Reduce storage at room temperature to a minimum

Analysis

- We offer a targeted LC-MS/MS analysis that includes +/-110 lipid species across the following classes:

Epoxy fatty acids
Hydroxy fatty acids
Leukotrienes
Lipoxins
Maresins
Nitro fatty acids
Oxo fatty acids
Prostaglandins
Isoprostanes
Eicosanoid Resolvins
Docosanoid Resolvins
Protectins
Tromboxanes
Amino fatty acids
Endocannabinoids

- Unless requested otherwise, for cell culture and tissue samples we normalise sample amounts to DNA concentration. For liquid samples we normalise to sample volume.
- The expected delivery time is 6 weeks

Requests

Placing requests

- Please announce you are going to send us samples at info@lipometrix.be

Shipment

- Samples should be shipped on dry ice.
- Please include a printed copy of your sample list.
- Make sure your sample tubes are labelled at the very least with a number and your initials.
- Send the samples to the address detailed in the box below.
- Do you want to bring us your samples yourself? Check the contact page on our website for detailed instructions how to find us. (www.lipometrix.be/contact)

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