

Lipidomics - Quick Guide

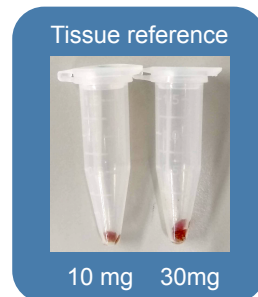
Samples

Cell culture

- 300.000 - 1.000.000 cells are needed.
- 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

- 2 - 30 mg tissue is needed, please do not exceed 30 mg.
- Freeze the fresh tissue at -80°C without any buffer.



Isolated cell organelles

- Typically 10 µg protein is needed.
- Avoid detergent use.
- Freeze pellet at -80°C.

Plasma / serum

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

Analysis

- We offer a targeted HILIC LC-MS/MS analysis that includes +/-1800 lipid species across the following classes:

SM	Sphingomyelins
CE	Cholesterol esters
CER	Ceramides
DCER	Dihydroceramides
HexCer	Hexosylceramides*
LacCer	Lactosylceramides
TG	Triacylglycerides
DG	Diacylglycerides
PC	Phosphatidylcholine
PC-O	1-alkyl,2-acylphosphatidylcholine
PC-P	1-alkenyl,2-acylphosphatidylcholine
LPC	Lysophosphatidylcholine
PE	Phosphatidylethanolamine
PE-O	1-alkyl,2-acylphosphatidylethanolamines
PE-P	1-alkenyl,2-acylphosphatidylethanolamines
LPE	Lysophosphatidylethanolamine
PG	Phosphatidylglycerol
PI	Phosphatidylinositol
PS	Phosphatidylserine

*The hexose can be either glucose or galactose.

- Unless requested otherwise, for cell culture and tissue samples we normalise sample amounts to DNA concentration. For organelles we normalise to protein, and for liquid samples to 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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