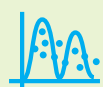


Glucosyl- + Galactosyl-sphingosines



Deliverables

This pre-validated panel includes two glycosylated sphingosine species with a long base chain of 18 carbons: glucosyl- and galactosyl-sphingosine. The **fully quantitative results** are provided for each species (expressed in pmol). In addition, the amount of each sample used is reported (weight or volume). If necessary, the analysis can be extended to other long-chain bases on request.



Method

Glucosyl- and galactosyl-sphingosines are analysed by **LC/ESI-MS/MS** with an Agilent 1290 HPLC system combined with an Agilent 6495 Triplequad mass spectrometer (Agilent Technologies, Santa Clara, USA). Samples are extracted with organic solvents. For lipid quantification, deuterated internal standards are added prior to sample extraction and individual calibration curves are used for each compound. Clean extracts are loaded on the LC system (Porishell HILIC-Z column) for LC/ESI-MS/MS analysis. Mass spectrometry analysis is performed with multiple reaction monitoring (MRM) in positive ion mode with at least two mass transitions for each compound. Data analysis is done using Mass Hunter software (Agilent Technologies).



Sample submission guidelines

SAMPLE TYPE	SAMPLE AMOUNT	SHIPMENT CONDITIONS
Blood plasma	100 µl	<i>Frozen, on dry ice</i>
Tissue	20 mg	<i>Frozen, on dry ice</i>
Cells	1 × 10 ⁶ cells or 150 µg of total protein	<i>Frozen, on dry ice</i>
CSF (cerebrospinal fluid)	300 µl	<i>Frozen, on dry ice</i>

Minimal sample number: 10

Standard turnaround time: 6 weeks

(for projects with up to 100 samples)

Expedited delivery is possible for an additional fee.

Applications

- > Neurodegenerative diseases
- > Krabbe's disease
- > Gaucher's disease

Covered analytes

ANALYTE	LONG CHAIN BASE*
Glucosyl-sphingosines	d18:1
Galactosyl-sphingosines	

* Coverage can be extended by other sphingosine species (i.e., including other long chain bases).

For enquiries, please contact:

Lipotype GmbH | Tatzberg 47 | 01307 Dresden | Germany
Lipotype Inc. | 1 Broadway, 14th floor | Cambridge, MA 02142 | United States
sales@lipotype.com



www.lipotype.com

