

Bis(monoacylglycero)phosphate (BMP)



Deliverables

This pre-validated panel includes 19 species of bis(monoacylglycero)phosphate (BMP), also known as lysobisphosphatidic acid (LBPA), and provides **fully quantitative results** (expressed in pmol). In addition, the amount of each sample used is reported (weight or volume).



Method

BMP is 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 a calibration curve of authentic BMP (18:1-18:1) is used. Clean extracts are loaded on the LC system for LC/ESI-MS/MS analysis. Mass spectrometry analysis is performed with multiple reaction monitoring (MRM) in negative 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	50 mg	<i>Frozen, on dry ice</i>
Cells	2 × 10 ⁶ cells or 300 µg of total protein	<i>Frozen, on dry ice</i>
CSF (cerebrospinal fluid)	300 µl	<i>Frozen, on dry ice</i>
Urine	2 ml	<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

- > Lysosomal storage disorders (Wolman's disease, Niemann-Pick disease and neuronal ceroid lipofuscinoses)
- > Phospholipidosis
- > Liver and Kidney diseases
- > Neurodegenerative disorders

Covered analytes

ANALYTE	SPECIES
Bis(monoacylglycero)phosphate	18:0_16:0
	18:0_18:0
	18:1_16:0
	18:1_16:1
	18:1_18:1
	18:1_18:2
	18:1_20:1
	18:1_20:2
	18:1_20:3
	18:1_20:4
	18:1_22:6
	18:2_16:0
	18:2_18:0
	20:1_22:6
	20:4_16:0
	20:4_18:0
	20:4_20:4
	20:4_22:6
22:6_22:6	

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