

List of metabolites

MxP® Quant HR Xpress™ kit

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MxP[®] Quant HR Xpress[™] kit – List of metabolites

High resolution with high throughput

The MxP[®] Quant HR Xpress[™] kit is the first high throughput, standardized solution for broad lipid and metabolic profiling on Q Exactive[™] mass spectrometers. It provides quantification of more than 360 metabolites and lipids from 11 compound classes covering central metabolic pathways.

Analyte class (number of metabolites)		Analytical method
Small molecules (42)	Amino acids (20)	LC-MS/MS
	Biogenic amines (21)	
	Carbohydrates and related (1)	
Lipids (321)	Acylcarnitines (11)	FIA-MS/MS
	Lysophosphatidylcholines (24)	
	Phosphatidylcholines (172)	
	Sphingomyelins (31)	
	Ceramides (9)	
	Cholesteryl esters (14)	
	Diglycerides (18)	
	Triglycerides (42)	

Amino acids (20)

Ala	Alanine	Lys	Lysine
Arg	Arginine	Met	Methionine
Asn	Asparagine	Orn	Ornithine
Asp	Aspartate	Phe	Phenylalanine
Cit	Citrulline	Pro	Proline
Glu	Glutamate	Ser	Serine
Gln	Glutamine	Thr	Threonine
Gly	Glycine	Trp	Tryptophan
His	Histidine	Tyr	Tyrosine
xLeu	Leucine + Isoleucine	Val	Valine

Biogenic amines (21)

AcOrn	Acetylornithine	Nitro-Tyr	Nitrotyrosine
ADMA	Asymmetric dimethylarginine	PEA	Phenylethylamine
alpha-AAA	alpha-Aminoadipic acid	Putrescine	Putrescine
Carnosine	Carnosine	Sarcosine	Sarcosine
c4-OH-Pro	cis-4-Hydroxyproline	SDMA	Symmetric dimethylarginine
Creatinine	Creatinine	Serotonin	Serotonin
DOPA	Dihydroxyphenylalanine	Spermidine	Spermidine
Dopamine	Dopamine	Spermine	Spermine
Histamine	Histamine	Taurine	Taurine
Kynurenine	Kynurenine	t4-OH-Pro	trans-4-Hydroxyproline
Met-SO	Methionine sulfoxide		

Carbohydrates and related (1)

H1	Hexoses (including glucose)		
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Acylcarnitines (11)

AC(0:0)	Carnitine	AC(4:0)	Butyrylcarnitine
AC(2:0)	Acetylcarnitine	AC(4:0-OH)	Hydroxybutyrylcarnitine
AC(3:0)	Propionylcarnitine	AC(4:1)	Butenylcarnitine
AC(3:0-DC)	Malonylcarnitine	AC(5:0)	Valerylcarnitine
AC(3:0-OH)	Hydroxypropionylcarnitine	AC(5:1)	Tiglylcarnitine
AC(3:1)	Propenoylcarnitine		

Lysophosphatidylcholines (24)			
LPC(12:0)	LPC(17:1)	LPC(20:2)	LPC(24:1)
LPC(14:0)	LPC(18:0)	LPC(20:3)	LPC-O(16:1)
LPC(15:0)	LPC(18:1)	LPC(20:4)	LPC-O(17:1)
LPC(16:0)	LPC(18:2)	LPC(22:5)	LPC-O(18:0)
LPC(16:1)	LPC(20:0)	LPC(22:6)	LPC-O(18:1)
LPC(17:0)	LPC(20:1)	LPC(24:0)	LPC-O(18:2)

Phosphatidylcholines (172)			
PC(24:0)	PC(34:4)	PC(39:3)	PC(44:6)
PC(25:0)	PC(34:5)	PC(39:4)	PC(44:7)
PC(26:0)	PC(35:0)	PC(39:5)	PC(44:10)
PC(27:0)	PC(35:1)	PC(39:6)	PC(44:12)
PC(27:1)	PC(35:2)	PC(39:7)	PC(46:1)
PC(28:1)	PC(35:3)	PC(40:1)	PC(46:2)
PC(29:0)	PC(35:4)	PC(40:2)	PC-O(26:0)
PC(29:1)	PC(35:5)	PC(40:3)	PC-O(26:1)
PC(29:2)	PC(36:0)	PC(40:4)	PC-O(28:0)
PC(30:0)	PC(36:1)	PC(40:5)	PC-O(28:1)
PC(30:1)	PC(36:2)	PC(40:6)	PC-O(29:0)
PC(30:2)	PC(36:3)	PC(40:7)	PC-O(30:0)
PC(30:3)	PC(36:4)	PC(40:8)	PC-O(30:1)
PC(31:0)	PC(36:5)	PC(40:9)	PC-O(30:2)
PC(31:1)	PC(36:6)	PC(41:1)	PC-O(31:0)
PC(31:2)	PC(37:0)	PC(41:2)	PC-O(31:1)
PC(31:3)	PC(37:1)	PC(41:3)	PC-O(31:3)
PC(32:0)	PC(37:2)	PC(41:4)	PC-O(32:0)
PC(32:1)	PC(37:3)	PC(41:5)	PC-O(32:1)
PC(32:2)	PC(37:4)	PC(41:8)	PC-O(32:2)
PC(32:3)	PC(37:5)	PC(42:0)	PC-O(32:3)
PC(32:4)	PC(37:6)	PC(42:1)	PC-O(33:0)
PC(32:5)	PC(37:7)	PC(42:2)	PC-O(33:1)
PC(32:6)	PC(38:0)	PC(42:3)	PC-O(33:2)
PC(33:0)	PC(38:1)	PC(42:4)	PC-O(33:3)
PC(33:1)	PC(38:2)	PC(42:5)	PC-O(33:4)
PC(33:2)	PC(38:3)	PC(42:6)	PC-O(33:6)
PC(33:3)	PC(38:4)	PC(42:7)	PC-O(34:0)
PC(33:4)	PC(38:5)	PC(42:10)	PC-O(34:1)
PC(33:5)	PC(38:6)	PC(43:2)	PC-O(34:2)
PC(34:0)	PC(38:7)	PC(43:6)	PC-O(34:3)
PC(34:1)	PC(39:0)	PC(44:1)	PC-O(34:4)
PC(34:2)	PC(39:1)	PC(44:3)	PC-O(35:3)
PC(34:3)	PC(39:2)	PC(44:5)	PC-O(35:4)

Phosphatidylcholines (continued)			
PC-O(36:0)	PC-O(38:0)	PC-O(40:2)	PC-O(42:2)
PC-O(36:1)	PC-O(38:1)	PC-O(40:3)	PC-O(42:3)
PC-O(36:2)	PC-O(38:2)	PC-O(40:4)	PC-O(42:4)
PC-O(36:3)	PC-O(38:3)	PC-O(40:5)	PC-O(42:5)
PC-O(36:4)	PC-O(38:4)	PC-O(40:6)	PC-O(42:6)
PC-O(36:5)	PC-O(38:5)	PC-O(40:7)	PC-O(44:3)
PC-O(36:6)	PC-O(38:6)	PC-O(40:8)	PC-O(44:4)
PC-O(37:6)	PC-O(40:0)	PC-O(42:0)	PC-O(44:5)
PC-O(37:7)	PC-O(40:1)	PC-O(42:1)	PC-O(44:6)

Sphingomyelins (31)			
SM(30:1)	SM(34:2)	SM(38:3)	SM(42:1)
SM(31:0)	SM(35:1)	SM(39:1)	SM(42:2)
SM(31:1)	SM(36:0)	SM(39:2)	SM(42:3)
SM(32:1)	SM(36:1)	SM(40:1)	SM(43:1)
SM(32:2)	SM(36:2)	SM(40:2)	SM(43:2)
SM(33:1)	SM(37:1)	SM(40:4)	SM(44:1)
SM(33:2)	SM(38:1)	SM(41:1)	SM(44:2)
SM(34:1)	SM(38:2)	SM(41:2)	

Ceramides (9)			
Cer(34:0)	Cer(40:1)	Cer(42:2)	
Cer(34:1)	Cer(41:1)	Cer(43:1)	
Cer(38:1)	Cer(42:1)	Cer(44:0)	

Cholesteryl esters (14)			
CE(16:0)	CE(17:2)	CE(19:2)	CE(22:5)
CE(16:1)	CE(18:1)	CE(19:3)	CE(22:6)
CE(17:0)	CE(18:2)	CE(20:4)	
CE(17:1)	CE(18:3)	CE(20:5)	

Diglycerides (18)			
DG(32:1)	DG(36:3)	DG(41:1)	DG-O(32:2)
DG(32:2)	DG(36:4)	DG(42:0)	DG-O(34:1)
DG(34:1)	DG(38:0)	DG(42:1)	DG-O(36:4)
DG(34:3)	DG(38:5)	DG(42:2)	
DG(36:2)	DG(39:0)	DG(44:3)	

Triglycerides (42)			
TG(44:1)	TG(50:3)	TG(52:6)	TG(54:7)
TG(44:2)	TG(50:4)	TG(52:7)	TG(55:6)
TG(44:4)	TG(51:1)	TG(53:3)	TG(55:7)
TG(46:2)	TG(51:2)	TG(53:4)	TG(55:8)
TG(48:1)	TG(51:3)	TG(53:5)	TG(55:9)
TG(48:2)	TG(51:4)	TG(53:6)	TG(56:6)
TG(48:3)	TG(51:5)	TG(54:2)	TG(56:7)
TG(49:1)	TG(52:2)	TG(54:3)	TG(56:8)
TG(49:2)	TG(52:3)	TG(54:4)	TG(56:9)
TG(50:1)	TG(52:4)	TG(54:5)	
TG(50:2)	TG(52:5)	TG(54:6)	

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