



biocrates
The future of research and health

List of metabolites

biocrates offers quantitative technology to detect and quantify more than 1,200 metabolites.

[biocrates.com](https://www.biocrates.com)



List of metabolites – Metabolic phenotyping kits & services

biocrates life sciences offers products and services for metabolic phenotyping through our quantitative kit technology, as well as through certified lab partners and our contract research service center.

Our technology covers more than 1,200 metabolites and is applicable to use with a wide range of species and matrices while requiring very low sample volumes.

The list below shows the total number of metabolites covered by our kits and assays. Depending on the sample type and species, certain metabolites may be below the limit of detection.

Portfolio overview

Approach	Assay name	Number of metabolites	Sample volume ¹	Page
Targeted profiling kits	MxP® Quant 500 XL kit	1,019	20 µl ²	6
	MxP® Quant 500 kit	630	10 µl ²	17
	AbsoluteIDQ® p400 HR kit ³	408	10 µl ²	25
	MxP® Quant HR Xpress kit ³	363	10 µl ²	29
	AbsoluteIDQ® p180 kit	188	10 µl ²	33
Specialized targeted kits and assays	AbsoluteIDQ® Bile acids kit	20	10-20 µl ²	36
	AbsoluteIDQ® Stero17 kit ⁴	17	250-550 µl ²	36
	Oxysterol assay	18	30 µl	36
	Tryptophan metabolism assay	17	120 µl	37
	Acylcarnitine assay	44	30 µl	37
	Short-chain fatty acid PLUS (SCFA+) assay	19	60 µl	38

NEW

¹ Human plasma/serum, for other matrices please inquire

² For metabolic phenotyping services, a different sample volume applies. Please contact sales@biocrates.com

³ Kit product only; not available in metabolic phenotyping services

⁴ Not for sale in USA and Canada

biocrates kits & services

	MxP® Quant 500 XL kit	MxP® Quant 500 kit	AbsoluteIDQ® p400 HR kit ³	MxP® Quant HR Xpress kit ³	AbsoluteIDQ® p180 kit	AbsoluteIDQ® Bile acids kit	AbsoluteIDQ® Stero 17 kit ⁴	Oxysterol assay	Tryptophan metabolism assay	Acylcarnitine assay	SCFA+ assay
Number of metabolites	1,019	630	408	363	188	20	17	18	17	44	19
Sample volume ¹	20 µl ²	10 µl ²				10-20 µl ²	250-550 µl ²	30 µl	120 µl	30 µl	60 µl
Metabolite class: SMALL MOLECULES											
Alkaloids	1	1									
Amine oxides	1	1									
Amino acids	20	20	21	20	21				1		
Amino acid related	30	30							10		
Bile acids	14	14				20					
Biogenic amines	9	9	21	21	21				1		
Carbohydrates & related	1	1	1	1	1						
Carboxylic acids	7	7									
Cresols	1	1									
Fatty acids ⁵	12	12									19
Hormones & related	4	4					17				
Indoles & derivatives	4	4							2		
Nucleobases & related	2	2									
Vitamins & cofactors	1	1							3		

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⁵ Free/non-covalently bound fatty acids

biocrates kits & services (continued)

	MxP® Quant 500 XL kit	MxP® Quant 500 kit	AbsoluteIDQ® p400 HR kit ³	MxP® Quant HR Xpress kit ³	AbsoluteIDQ® p180 kit	AbsoluteIDQ® Bile acids kit	AbsoluteIDQ® Stero17 kit ⁴	Oxysterol assay	Tryptophan metabolism assay	Acylcarnitine assay	SCFA+ assay
Metabolite class: LIPIDS											
(Acyl-)Carnitines	40	40	55	11	40					44	
Lysophosphatidic acids	8										
Phosphatidic acids	41										
Lysophosphatidylcholines	12	12	24	24	12						
Phosphatidylcholines	78	78	172	172	78						
Lysophosphatidylethanolamines	43										
Phosphatidylethanolamines	95										
Lysophosphatidylglycerols	10										
Phosphatidylglycerols	64										
Lysophosphatidylinositols	16										
Phosphatidylinositols	53										
Lysophosphatidylserines	12										
Phosphatidylserines	18										
Sphinganine and sphingosines	8										
Sphinganine and sphingosine phosphates	8										
Sphingomyelins	15	15	31	31	15						

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biocrates kits & services (continued)

	MxP® Quant 500 XL kit	MxP® Quant 500 kit	AbsoluteIDQ® p400 HR kit ³	MxP® Quant HR Xpress kit ³	AbsoluteIDQ® p180 kit	AbsoluteIDQ® Bile acids kit	AbsoluteIDQ® Stero17 kit ⁴	Oxysterol assay	Tryptophan metabolism assay	Acylcarnitine assay	SCFA+ assay
Metabolite class: LIPIDS (continued)											
Ceramides	29	28	9	9							
Dihydroceramides	8	8									
Hexosylceramides	19	19									
Dihexosylceramides	9	9									
Trihexosylceramides	6	6									
Cholesteryl esters	22	22	14	14							
Monoglycerides	12										
Diglycerides	44	44	18	18							
Triglycerides	242	242	42	42							
Free (oxy-)sterols								18			

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MxP® Quant 500 XL kit – Overview

Analyte class (number of metabolites)		Analytical method
Small molecules (107)	Alkaloids (1)	LC-MS/MS
	Amine oxides (1)	
	Amino acids (20)	
	Amino acid related (30)	
	Bile acids (14)	
	Biogenic amines (9)	
	Carboxylic acids (7)	
	Cresols (1)	
	Fatty acids – Free/non-covalently bound (12)	
	Hormones and related (4)	
	Indoles and derivatives (4)	
	Nucleobases and related (2)	
	Vitamins and cofactors (1)	
	Carbohydrates and related (1)	
Lipids (912)	Acylcarnitines (40)	FIA-MS/MS
	Lysophosphatidic acids (8)	
	Phosphatidic acids (41)	
	Lysophosphatidylcholines (12)	
	Phosphatidylcholines (78)	
	Lysophosphatidylethanolamines (43)	
	Phosphatidylethanolamines (95)	
	Lysophosphatidylglycerols (10)	
	Phosphatidylglycerols (64)	
	Lysophosphatidylinositols (16)	
	Phosphatidylinositols (53)	
	Lysophosphatidylserines (12)	
	Phosphatidylserines (18)	
	Sphinganine and sphingosines (8)	
	Sphinganine and sphingosine phosphates (8)	
	Sphingomyelins (15)	
	Ceramides (29)	
	Dihydroceramides (8)	
	Hexosylceramides (19)	
	Dihexosylceramides (9)	
	Trihexosylceramides (6)	
	Cholesteryl esters (22)	
	Monoglycerides (12)	
	Diglycerides (44)	
	Triglycerides (242)	

MxP® Quant 500 XL kit

Alkaloids (1)			
Trigonelline	Trigonelline		

Amine oxides (1)			
TMAO	Trimethylamine N-oxide		

Amino acids (20)			
Ala	Alanine	Leu	Leucine
Arg	Arginine	Lys	Lysine
Asn	Asparagine	Met	Methionine
Asp	Aspartate	Phe	Phenylalanine
Cys	Cysteine	Pro	Proline
Glu	Glutamate	Ser	Serine
Gln	Glutamine	Thr	Threonine
Gly	Glycine	Trp	Tryptophan
His	Histidine	Tyr	Tyrosine
Ile	Isoleucine	Val	Valine

Amino acid related (30)			
alpha-AAA	α -Aminoadipic acid	c4-OH-Pro	<i>cis</i> -4-Hydroxyproline
AABA	α -Aminobutyric acid	t4-OH-Pro	<i>trans</i> -4-Hydroxyproline
Ac-Orn	Acetylornithine	Kynurenine	Kynurenine
ADMA	Asymmetric dimethylarginine	Met-SO	Methionine sulfoxide
Anserine	Anserine	1-Met-His	1-Methylhistidine
5-AVA	5-Aminovaleric acid	3-Met-His	3-Methylhistidine
BABA	β -Aminobutyric acid	Nitro-Tyr	Nitrotyrosine
Betaine	Betaine	Orn	Ornithine
Carnosine	Carnosine	PAG	Phenylacetyl glycine
Cit	Citrulline	PheAlaBetaine	Phenylalanine betaine
Creatinine	Creatinine	ProBetaine	Proline betaine
Cystine	Cystine	Sarcosine	Sarcosine
DOPA	Dihydroxyphenylalanine	SDMA	Symmetric dimethylarginine
HArg	Homoarginine	Taurine	Taurine
HCys	Homocysteine	TrpBetaine	Tryptophan betaine

Bile acids (14)			
CA	Cholic acid	GLCAS	Glycolithocholic acid sulfate
CDCA	Chenodeoxycholic acid	GUDCA	Glycoursodeoxycholic acid
DCA	Deoxycholic acid	TCA	Taurocholic acid
GCA	Glycocholic acid	TCDCA	Taurochenodeoxycholic acid
GDCA	Glycodeoxycholic acid	TDCA	Taurodeoxycholic acid
GCDCA	Glycochenodeoxycholic acid	TLCA	Taurolithocholic acid
GLCA	Glycolithocholic acid	TMCA	Tauromurocholic acid

Biogenic amines (9)			
beta-Ala	β -Alanine	Putrescine	Putrescine
GABA	γ -Aminobutyric acid	Serotonin	Serotonin
Dopamine	Dopamine	Spermidine	Spermidine
Histamine	Histamine	Spermine	Spermine
PEA	Phenylethylamine		

Carbohydrates and related (1)			
Hexose	Hexoses (including glucose)		

Carboxylic acids (7)			
AconAcid	Aconitic acid	OH-GlutAcid	3-Hydroxyglutaric acid
DiCA(12:0)	Dodecanedioic acid	Lac	Lactic acid
DiCA(14:0)	Tetradecanedioic acid	Suc	Succinic acid
HipAcid	Hippuric acid		

Cresols (1)			
<i>p</i> -Cresol-SO4	<i>p</i> -Cresol sulfate		

Fatty acids – Free/non-covalently bound (12)			
FA 12:0	Lauric acid	FA 20:1	Eicosenoic acid
FA 14:0	Myristic acid	FA 20:2	Eicosadienoic acid
FA 16:0	Palmitic acid	FA 20:3	Eicosatrienoic acid
FA 18:0	Stearic acid	FA 20:4	Arachidonic acid (AA; ω 6)
FA 18:1	Octadecenoic acid	FA 20:5	Eicosapentaenoic acid (EPA; ω 3)
FA 18:2	Octadecadienoic acid	FA 22:6	Docosahexaenoic acid (DHA; ω 3)

Hormones and related (4)			
AbsAcid	Abcsic acid	Cortisone	Cortisone
Cortisol	Cortisol	DHEAS	Dehydroepiandrosterone sulfate

Indoles and derivatives (4)			
Indole	Indole	3-IPA	3-Indolepropionic acid
3-IAA	3-Indoleacetic acid	Ind-SO4	Indoxyl sulfate

Nucleobases and related (2)			
Hypoxanthine	Hypoxanthine	Xanthine	Xanthine

Vitamins and cofactors (1)			
Choline	Choline		

Acylcarnitines (40)			
C0	Carnitine	C10:1	Decenoylcarnitine
C2	Acetylcarnitine	C10:2	Decadienoylcarnitine
C3	Propionylcarnitine	C12	Dodecanoylcarnitine
C3-DC (C4-OH)	Malonylcarnitine (Hydroxybutyrylcarnitine)	C12-DC	Dodecanedioylcarnitine
C3-OH	Hydroxypropionylcarnitine	C12:1	Dodecenoylcarnitine
C3:1	Propenoylcarnitine	C14	Tetradecanoylcarnitine
C4	Butyrylcarnitine	C14:1	Tetradecenoylcarnitine
C4:1	Butenylcarnitine	C14:1-OH	Hydroxytetradecenoylcarnitine
C5	Valeryl carnitine	C14:2	Tetradecadienoylcarnitine
C5-DC (C6-OH)	Glutaryl carnitine (Hydroxyhexanoylcarnitine)	C14:2-OH	Hydroxytetradecadienoyl- carnitine
C5-M-DC	Methylglutaryl carnitine	C16	Hexadecanoylcarnitine
C5-OH (C3-DC-M)	Hydroxyvaleryl carnitine (Methylmalonylcarnitine)	C16-OH	Hydroxyhexadecanoylcarnitine
C5:1	Tiglylcarnitine	C16:1	Hexadecenoylcarnitine
C5:1-DC	Glutaconyl carnitine	C16:1-OH	Hydroxyhexadecenoylcarnitine
C6 (C4:1-DC)	Hexanoylcarnitine (Fumaryl carnitine)	C16:2	Hexadecadienoylcarnitine
C6:1	Hexenoylcarnitine	C16:2-OH	Hydroxyhexadecadienoyl- carnitine
C7-DC	Pimeloylcarnitine	C18	Octadecanoylcarnitine
C8	Octanoylcarnitine	C18:1	Octadecenoylcarnitine
C9	Nonanoylcarnitine	C18:1-OH	Hydroxyoctadecenoylcarnitine
C10	Decanoylcarnitine	C18:2	Octadecadienylcarnitine



Lysophosphatidic acids (8)			
LPA 14:0	LPA 15:0	LPA 18:1	LPA 22:3
LPA 14:1	LPA 16:0	LPA 18:2	LPA 22:4

Phosphatidic acids (41)			
PA 14:0_14:1	PA 17:0_18:3	PA 18:1_20:0	PA 18:2_20:1
PA 16:0_18:1	PA 17:1_18:1	PA 18:1_20:1	PA 18:2_20:2
PA 16:0_18:2	PA 17:1_18:2	PA 18:1_20:2	PA 18:2_22:0
PA 16:0_18:3	PA 17:2_18:1	PA 18:1_20:3	PA 18:2_22:1
PA 16:0_19:2	PA 18:0_18:1	PA 18:1_22:0	PA 18:2_22:3
PA 16:1_18:1	PA 18:0_18:2	PA 18:1_22:1	PA 18:2_22:4
PA 16:1_18:2	PA 18:0_18:3	PA 18:1_22:2	PA 18:3_18:3
PA 16:1_22:0	PA 18:1_18:1	PA 18:1_22:3	PA 20:0_20:4
PA 16:2_18:1	PA 18:1_18:2	PA 18:2_18:2	
PA 17:0_18:1	PA 18:1_18:3	PA 18:2_18:3	
PA 17:0_18:2	PA 18:1_18:4	PA 18:2_20:0	

Lysophosphatidylcholines (12)			
LPC 14:0	LPC 17:0	LPC 18:2	LPC 24:0
LPC 16:0	LPC 18:0	LPC 20:3	LPC 26:0
LPC 16:1	LPC 18:1	LPC 20:4	LPC 26:1

Phosphatidylcholines (78)			
PC 24:0	PC 38:0	PC O-30:0	PC O-38:5
PC 26:0	PC 38:1 ⁶	PC O-30:1	PC O-38:6
PC 28:1	PC 38:3	PC O-30:2	PC O-40:1
PC 30:0	PC 38:4	PC O-32:1	PC O-40:2
PC 30:2 ⁶	PC 38:5	PC O-32:2	PC O-40:3
PC 32:0	PC 38:6	PC O-34:0	PC O-40:4
PC 32:1	PC 40:1	PC O-34:1	PC O-40:5
PC 32:2	PC 40:2	PC O-34:2	PC O-40:6
PC 32:3	PC 40:3	PC O-34:3	PC O-42:0
PC 34:1	PC 40:4	PC O-36:0	PC O-42:1
PC 34:2	PC 40:5	PC O-36:1	PC O-42:2
PC 34:3	PC 40:6	PC O-36:2	PC O-42:3
PC 34:4	PC 42:0	PC O-36:3	PC O-42:4
PC 36:0	PC 42:1	PC O-36:4	PC O-42:5
PC 36:1	PC 42:2	PC O-36:5	PC O-44:3
PC 36:2	PC 42:4	PC O-38:0	PC O-44:4
PC 36:3	PC 42:5	PC O-38:1	PC O-44:5
PC 36:4	PC 42:6	PC O-38:2	PC O-44:6
PC 36:5	PC O-28:0	PC O-38:3	
PC 36:6	PC O-28:1	PC O-38:4	

⁶ SCIEX and Agilent only

Lysophosphatidylethanolamines (43)			
LPE 12:0	LPE 18:3	LPE 22:1	LPE P-18:2
LPE 14:0	LPE 19:0	LPE 22:4	LPE P-20:0
LPE 14:1	LPE 19:1	LPE 22:5	LPE P-20:1
LPE 15:0	LPE 19:2	LPE 22:6	LPE P-20:4
LPE 16:0	LPE 20:0	LPE 24:0	LPE P-20:5
LPE 16:1	LPE 20:1	LPE P-14:0	LPE P-22:0
LPE 17:0	LPE 20:2	LPE P-15:0	LPE P-22:1
LPE 17:1	LPE 20:3	LPE P-16:0	LPE P-22:4
LPE 18:0	LPE 20:4	LPE P-17:0	LPE P-22:5
LPE 18:1	LPE 20:5	LPE P-18:0	LPE P-22:6
LPE 18:2	LPE 22:0	LPE P-18:1	

Phosphatidylethanolamines (95)			
PE 20:0	PE 36:4	PE P-16:0/14:0	PE P-18:0/20:3
PE 28:0	PE 36:5	PE P-16:0/15:0	PE P-18:0/20:4
PE 28:1	PE 36:6	PE P-16:0/16:0	PE P-18:0/20:5
PE 30:0	PE 38:0	PE P-16:0/16:1	PE P-18:0/22:1
PE 30:1	PE 38:1	PE P-16:0/18:1	PE P-18:0/22:2
PE 31:0	PE 38:2	PE P-16:0/18:2	PE P-18:0/22:3
PE 32:0	PE 38:3	PE P-16:0/18:3	PE P-18:0/22:4
PE 32:1	PE 38:4	PE P-16:0/20:3	PE P-18:0/22:5
PE 32:2	PE 38:5	PE P-16:0/20:4	PE P-18:0/22:6
PE 33:0	PE 38:6	PE P-16:0/20:5	PE P-18:1/18:1
PE 33:1	PE 38:7	PE P-16:0/22:4	PE P-18:1/18:2
PE 33:2	PE 40:1	PE P-16:0/22:5	PE P-18:1/20:4
PE 34:0	PE 40:3	PE P-16:0/22:6	PE P-18:1/20:5
PE 34:1	PE 40:4	PE P-18:0/14:0	PE P-18:1/22:6
PE 34:2	PE 40:5	PE P-18:0/16:0	PE P-20:0/14:0
PE 34:3	PE 40:6	PE P-18:0/16:1	PE P-20:0/16:0
PE 34:4	PE 40:7	PE P-18:0/17:1	PE P-20:0/16:1
PE 35:1	PE 40:8	PE P-18:0/18:0	PE P-20:0/17:1
PE 35:2	PE 42:7	PE P-18:0/18:1	PE P-20:0/18:1
PE 35:3	PE 42:8	PE P-18:0/18:2	PE P-20:0/18:2
PE 36:0	PE 44:11	PE P-18:0/18:3	PE P-20:0/20:0
PE 36:1	PE 44:12	PE P-18:0/19:1	PE P-20:0/20:4
PE 36:2	PE 44:6	PE P-18:0/20:1	PE P-20:0/20:5
PE 36:3	PE 44:7	PE P-18:0/20:2	

MxP® Quant 500 XL kit

Lysophosphatidylglycerols (10)			
LPG 14:0	LPG 16:1	LPG 18:0	LPG 20:1
LPG 14:1	LPG 17:0	LPG 18:1	
LPG 16:0	LPG 17:1	LPG 18:2	



Phosphatidylglycerols (64)			
PG 14:0_16:0	PG 16:1_18:2	PG 18:1_20:0	PG 18:2_20:2
PG 15:0_18:1	PG 16:1_20:4	PG 18:1_20:1	PG 18:2_20:3
PG 16:0_16:0	PG 16:1_22:1	PG 18:1_20:2	PG 18:2_20:4
PG 16:0_16:1	PG 16:2_18:1	PG 18:1_20:3	PG 18:2_20:5
PG 16:0_18:1	PG 16:2_18:2	PG 18:1_20:4	PG 18:2_22:0
PG 16:0_18:2	PG 16:3_18:1	PG 18:1_20:5	PG 18:2_22:1
PG 16:0_18:3	PG 17:0_18:1	PG 18:1_22:0	PG 18:2_22:3
PG 16:0_19:1	PG 17:0_18:2	PG 18:1_22:1	PG 18:2_22:4
PG 16:0_20:3	PG 17:1_18:1	PG 18:1_22:2	PG 20:3_20:4
PG 16:0_20:4	PG 18:0_18:1	PG 18:1_22:3	PG 20:4_20:4
PG 16:0_20:5	PG 18:0_18:2	PG 18:1_22:4	PG 20:4_22:1
PG 16:0_22:1	PG 18:0_18:3	PG 18:1_22:5	PG 20:4_22:3
PG 16:0_22:2	PG 18:0_22:1	PG 18:2_18:2	PG 20:4_22:4
PG 16:1_16:1	PG 18:1_18:1	PG 18:2_18:3	PG 22:4_22:6
PG 16:1_18:0	PG 18:1_18:2	PG 18:2_18:4	PG 22:5_22:6
PG 16:1_18:1	PG 18:1_18:3	PG 18:2_20:0	PG 22:6_22:6

Lysophosphatidylinositols (16)			
LPI 14:0	LPI 16:1	LPI 18:1	LPI 20:1
LPI 14:1	LPI 17:0	LPI 18:2	LPI 20:4
LPI 15:0	LPI 17:1	LPI 18:3	LPI 22:0
LPI 16:0	LPI 18:0	LPI 19:0	LPI 22:1

Phosphatidylinositols (53)			
PI 14:0_18:1	PI 16:0_22:1	PI 18:0_22:0	PI 18:1_22:4
PI 14:0_18:2	PI 16:1_18:0	PI 18:1_18:1	PI 18:1_22:5
PI 15:0_16:0	PI 16:1_18:1	PI 18:1_18:2	PI 18:1_22:6
PI 15:1_16:0	PI 16:1_18:2	PI 18:1_18:3	PI 18:2_18:3
PI 16:0_16:0	PI 17:0_18:1	PI 18:1_20:0	PI 18:2_20:0
PI 16:0_17:0	PI 17:1_18:1	PI 18:1_20:1	PI 18:2_20:1
PI 16:0_17:1	PI 17:1_18:2	PI 18:1_20:2	PI 18:2_20:4
PI 16:0_17:2	PI 18:0_18:0	PI 18:1_20:3	PI 18:2_20:5
PI 16:0_18:1	PI 18:0_18:1	PI 18:1_20:4	PI 18:2_22:0
PI 16:0_18:2	PI 18:0_18:2	PI 18:1_20:5	PI 18:2_22:1
PI 16:0_18:3	PI 18:0_18:3	PI 18:1_22:0	PI 18:2_22:6
PI 16:0_20:0	PI 18:0_20:0	PI 18:1_22:1	
PI 16:0_20:3	PI 18:0_20:3	PI 18:1_22:2	
PI 16:0_20:4	PI 18:0_20:4	PI 18:1_22:3	

Lysophosphatidylserines (12)			
LPS 16:0	LPS 18:1	LPS 20:0	LPS 20:5
LPS 16:1	LPS 18:2	LPS 20:1	LPS 22:0
LPS 18:0	LPS 18:3	LPS 20:4	LPS 22:6

MxP® Quant 500 XL kit

Phosphatidylserines (18)			
PS 30:0	PS 36:2	PS 38:5	PS 40:6
PS 32:0	PS 36:3	PS 38:6	PS 40:7
PS 34:1	PS 36:4	PS 38:7	PS 40:8
PS 34:2	PS 36:5	PS 40:4	
PS 36:1	PS 38:4	PS 40:5	

Sphinganine and sphingosines (8)			
SPB d14:0	SPB d16:0	SPB d17:0	SPB d18:0
SPB d14:1	SPB d16:1	SPB d17:1	SPB d18:1

Sphinganine and sphingosine phosphates (8)			
SPBP d14:0	SPBP d16:0	SPBP d17:0	SPBP d18:0
SPBP d14:1	SPBP d16:1	SPBP d17:1	SPBP d18:1

Sphingomyelins (15)			
SM 33:1	SM 36:1	SM 41:1	SM 43:1
SM 34:1	SM 36:2	SM 41:2	SM 44:1
SM 34:2	SM 38:3	SM 42:1	SM 44:2
SM 35:1	SM 40:4 ⁶	SM 42:2	

Ceramides (29)			
Cer d16:1/18:0	Cer d18:1/18:0	Cer d18:1/25:0	Cer d18:2/22:0
Cer d16:1/20:0	Cer d18:1/18:1	Cer d18:1/26:0	Cer d18:2/23:0
Cer d16:1/22:0	Cer d18:1/20:0-OH	Cer d18:1/26:1 ⁷	Cer d18:2/24:0
Cer d16:1/23:0	Cer d18:1/20:0	Cer d18:2/14:0	Cer d18:2/24:1
Cer d16:1/24:0	Cer d18:1/22:0	Cer d18:2/16:0	CerP d18:1/16:0
Cer d18:1/14:0	Cer d18:1/23:0	Cer d18:2/18:0	
Cer d18:1/16:0	Cer d18:1/24:0	Cer d18:2/18:1	
Cer d18:1/18:0-OH	Cer d18:1/24:1	Cer d18:2/20:0	

Dihydroceramides (8)			
Cer d18:0/18:0-OH	Cer d18:0/20:0	Cer d18:0/24:0	Cer d18:0/26:1-OH
Cer d18:0/18:0	Cer d18:0/22:0	Cer d18:0/24:1	Cer d18:0/26:1

⁶ SCIEX and Agilent only

⁷ SCIEX, Agilent, and Waters Xevo® TQ-XS only



Hexosylceramides (19)

Hex-Cer d16:1/20:0 ⁸	Hex-Cer d18:1/18:0	Hex-Cer d18:1/24:0	Hex-Cer d18:2/18:0
Hex-Cer d16:1/22:0	Hex-Cer d18:1/18:1	Hex-Cer d18:1/24:1	Hex-Cer d18:2/20:0
Hex-Cer d16:1/24:0	Hex-Cer d18:1/20:0	Hex-Cer d18:1/26:0	Hex-Cer d18:2/22:0
Hex-Cer d18:1/14:0	Hex-Cer d18:1/22:0	Hex-Cer d18:1/26:1	Hex-Cer d18:2/23:0
Hex-Cer d18:1/16:0	Hex-Cer d18:1/23:0	Hex-Cer d18:2/16:0	Hex-Cer d18:2/24:0

Dihexosylceramides (9)

Hex2Cer d18:1/14:0	Hex2Cer d18:1/20:0	Hex2Cer d18:1/24:1	
Hex2Cer d18:1/16:0	Hex2Cer d18:1/22:0	Hex2Cer d18:1/26:0	
Hex2Cer d18:1/18:0	Hex2Cer d18:1/24:0	Hex2Cer d18:1/26:1	

Trihexosylceramides (6)

Hex3Cer d18:1/16:0	Hex3Cer d18:1/20:0	Hex3Cer d18:1/24:1	
Hex3Cer d18:1/18:0	Hex3Cer d18:1/22:0	Hex3Cer d18:1/26:1	

Cholesteryl esters (22)

CE 14:0	CE 17:0	CE 20:0	CE 22:1
CE 14:1	CE 17:1	CE 20:1	CE 22:2
CE 15:0	CE 18:0	CE 20:3	CE 22:5
CE 15:1	CE 18:1	CE 20:4	CE 22:6
CE 16:0	CE 18:2	CE 20:5	
CE 16:1	CE 18:3	CE 22:0	

Monoglycerides (12)

MG 16:1	MG 18:3	MG 20:4	MG 22:2
MG 18:1	MG 20:1	MG 20:5	MG 22:4
MG 18:2	MG 20:3	MG 22:1	MG 22:6

Diglycerides (44)

DG 14:0_14:0	DG 16:0_20:4	DG 18:1_18:4	DG 18:2_20:4
DG 14:0_18:1	DG 16:1_18:0	DG 18:1_20:0	DG 18:3_18:3
DG 14:0_18:2	DG 16:1_18:1	DG 18:1_20:1	DG 18:3_20:2
DG 14:0_20:0	DG 16:1_18:2	DG 18:1_20:2	DG 21:0_22:6
DG 14:1_18:1	DG 16:1_20:0	DG 18:1_20:3	DG 22:1_22:2
DG 14:1_20:2	DG 17:0_17:1	DG 18:1_20:4	DG O-14:0_18:2
DG 16:0_16:0	DG 17:0_18:1	DG 18:1_22:5	DG O-16:0_18:1 ⁷
DG 16:0_16:1	DG 18:0_20:0	DG 18:1_22:6	DG O-16:0_20:4 ⁶
DG 16:0_18:1	DG 18:0_20:4	DG 18:2_18:2	DG O-18:2_18:2 ⁹
DG 16:0_18:2	DG 18:1_18:1	DG 18:2_18:3	
DG 16:0_20:0	DG 18:1_18:2	DG 18:2_18:4	
DG 16:0_20:3	DG 18:1_18:3	DG 18:2_20:0	

⁶ SCIEX and Agilent only

⁷ SCIEX, Agilent, and Waters Xevo® TQ-XS only

⁸ Waters Xevo® TQ-XS only

⁹ Waters only



Triglycerides (242)			
TG 14:0_32:2	TG 16:0_40:6	TG 18:0_30:0	TG 18:2_30:0
TG 14:0_34:0	TG 16:0_40:7	TG 18:0_30:1	TG 18:2_30:1
TG 14:0_34:1	TG 16:0_40:8	TG 18:0_32:0	TG 18:2_31:0
TG 14:0_34:2	TG 16:1_28:0	TG 18:0_32:1	TG 18:2_32:0
TG 14:0_34:3	TG 16:1_30:1	TG 18:0_32:2	TG 18:2_32:1
TG 14:0_35:1	TG 16:1_32:0	TG 18:0_34:2	TG 18:2_32:2
TG 14:0_35:2	TG 16:1_32:1	TG 18:0_34:3	TG 18:2_33:0
TG 14:0_36:1	TG 16:1_32:2	TG 18:0_36:1	TG 18:2_33:1
TG 14:0_36:2	TG 16:1_33:1	TG 18:0_36:2	TG 18:2_33:2
TG 14:0_36:3	TG 16:1_34:0	TG 18:0_36:3	TG 18:2_34:0
TG 14:0_36:4	TG 16:1_34:1	TG 18:0_36:4	TG 18:2_34:1
TG 14:0_38:4	TG 16:1_34:2	TG 18:0_36:5	TG 18:2_34:2
TG 14:0_38:5	TG 16:1_34:3	TG 18:0_38:6	TG 18:2_34:3
TG 14:0_39:3 ⁶	TG 16:1_36:1	TG 18:0_38:7	TG 18:2_34:4
TG 14:0_40:5 ⁹	TG 16:1_36:2	TG 18:1_26:0	TG 18:2_35:1
TG 16:0_28:1	TG 16:1_36:3	TG 18:1_28:1	TG 18:2_35:2
TG 16:0_28:2	TG 16:1_36:4	TG 18:1_30:0	TG 18:2_35:3
TG 16:0_30:2	TG 16:1_36:5	TG 18:1_30:1	TG 18:2_36:0
TG 16:0_32:0	TG 16:1_38:3	TG 18:1_30:2	TG 18:2_36:1
TG 16:0_32:1	TG 16:1_38:4	TG 18:1_31:0	TG 18:2_36:2
TG 16:0_32:2	TG 16:1_38:5	TG 18:1_32:0	TG 18:2_36:3
TG 16:0_32:3	TG 17:0_32:1	TG 18:1_32:1	TG 18:2_36:4
TG 16:0_33:1	TG 17:0_34:1	TG 18:1_32:2	TG 18:2_36:5
TG 16:0_33:2	TG 17:0_34:2	TG 18:1_32:3	TG 18:2_38:4
TG 16:0_34:0	TG 17:0_34:3	TG 18:1_33:0	TG 18:2_38:5
TG 16:0_34:1	TG 17:0_36:3	TG 18:1_33:1	TG 18:2_38:6
TG 16:0_34:2	TG 17:0_36:4	TG 18:1_33:2	TG 18:3_30:0
TG 16:0_34:3	TG 17:1_32:1	TG 18:1_33:3	TG 18:3_32:0
TG 16:0_34:4	TG 17:1_34:1	TG 18:1_34:1	TG 18:3_32:1
TG 16:0_35:1	TG 17:1_34:2	TG 18:1_34:2	TG 18:3_33:2
TG 16:0_35:2	TG 17:1_34:3	TG 18:1_34:3	TG 18:3_34:0
TG 16:0_35:3	TG 17:1_36:3	TG 18:1_34:4	TG 18:3_34:1
TG 16:0_36:2	TG 17:1_36:4	TG 18:1_35:2	TG 18:3_34:2
TG 16:0_36:3	TG 17:1_36:5	TG 18:1_35:3	TG 18:3_34:3
TG 16:0_36:4	TG 17:1_38:5	TG 18:1_36:0	TG 18:3_35:2
TG 16:0_36:5	TG 17:1_38:6	TG 18:1_36:1	TG 18:3_36:1
TG 16:0_36:6	TG 17:1_38:7	TG 18:1_36:2	TG 18:3_36:2
TG 16:0_37:3	TG 17:2_34:2	TG 18:1_36:3	TG 18:3_36:3
TG 16:0_38:1	TG 17:2_34:3	TG 18:1_36:4	TG 18:3_36:4
TG 16:0_38:2	TG 17:2_36:2	TG 18:1_36:5	TG 18:3_38:5
TG 16:0_38:3	TG 17:2_36:3	TG 18:1_36:6	TG 18:3_38:6
TG 16:0_38:4	TG 17:2_36:4	TG 18:1_38:5	TG 20:0_32:3
TG 16:0_38:5	TG 17:2_38:5	TG 18:1_38:6	TG 20:0_32:4
TG 16:0_38:6	TG 17:2_38:6	TG 18:1_38:7	TG 20:0_34:1
TG 16:0_38:7	TG 17:2_38:7	TG 18:2_28:0	TG 20:1_24:3

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Triglycerides (continued)			
TG 20:1_26:1	TG 20:2_34:4	TG 20:4_33:2	TG 22:1_32:5
TG 20:1_30:1	TG 20:2_36:5	TG 20:4_34:0	TG 22:2_32:4
TG 20:1_31:0 ⁶	TG 20:3_32:0	TG 20:4_34:1	TG 22:3_30:2
TG 20:1_32:0 ⁹	TG 20:3_32:1	TG 20:4_34:2	TG 22:4_32:0
TG 20:1_32:1	TG 20:3_32:2	TG 20:4_34:3	TG 22:4_32:2
TG 20:1_32:2	TG 20:3_34:0	TG 20:4_35:3	TG 22:4_34:2
TG 20:1_32:3	TG 20:3_34:1	TG 20:4_36:2	TG 22:5_32:0
TG 20:1_34:0	TG 20:3_34:2	TG 20:4_36:3	TG 22:5_32:1
TG 20:1_34:1	TG 20:3_34:3	TG 20:4_36:4	TG 22:5_34:1
TG 20:1_34:2	TG 20:3_36:3	TG 20:4_36:5	TG 22:5_34:2
TG 20:1_34:3	TG 20:3_36:4	TG 20:5_34:0	TG 22:5_34:3
TG 20:2_32:0	TG 20:3_36:5	TG 20:5_34:1	TG 22:6_32:0
TG 20:2_32:1	TG 20:4_30:0	TG 20:5_34:2	TG 22:6_32:1
TG 20:2_34:1	TG 20:4_32:0	TG 20:5_36:2	TG 22:6_34:1
TG 20:2_34:2	TG 20:4_32:1	TG 20:5_36:3	TG 22:6_34:2
TG 20:2_34:3	TG 20:4_32:2	TG 22:0_32:4	TG 22:6_34:3

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MxP® Quant 500 kit – Overview

Analyte class (number of metabolites)		Analytical method
Small molecules (107)	Alkaloids (1)	LC-MS/MS
	Amine oxides (1)	
	Amino acids (20)	
	Amino acid related (30)	
	Bile acids (14)	
	Biogenic amines (9)	
	Carboxylic acids (7)	
	Cresols (1)	
	Fatty acids - Free/non-covalently bound (12)	
	Hormones and related (4)	
	Indoles and derivatives (4)	
	Nucleobases and related (2)	
	Vitamins and cofactors (1)	
	Carbohydrates and related (1)	
Lipids (523)	Acylcarnitines (40)	FIA-MS/MS
	Lysophosphatidylcholines (14)	
	Phosphatidylcholines (76)	
	Sphingomyelins (15)	
	Ceramides (28)	
	Dihydroceramides (8)	
	Hexosylceramides (19)	
	Dihexosylceramides (9)	
	Trihexosylceramides (6)	
	Cholesteryl esters (22)	
	Diglycerides (44)	
	Triglycerides (242)	

MxP® Quant 500 kit

Alkaloids (1)			
Trigonelline	Trigonelline		

Amine oxides (1)			
TMAO	Trimethylamine N-oxide		

Amino acids (20)			
Ala	Alanine	Leu	Leucine
Arg	Arginine	Lys	Lysine
Asn	Asparagine	Met	Methionine
Asp	Aspartate	Phe	Phenylalanine
Cys	Cysteine	Pro	Proline
Glu	Glutamate	Ser	Serine
Gln	Glutamine	Thr	Threonine
Gly	Glycine	Trp	Tryptophan
His	Histidine	Tyr	Tyrosine
Ile	Isoleucine	Val	Valine

Amino acid related (30)			
alpha-AAA	α -Aminoadipic acid	c4-OH-Pro	<i>cis</i> -4-Hydroxyproline
AABA	α -Aminobutyric acid	t4-OH-Pro	<i>trans</i> -4-Hydroxyproline
Ac-Orn	Acetylornithine	Kynurenine	Kynurenine
ADMA	Asymmetric dimethylarginine	Met-SO	Methionine sulfoxide
Anserine	Anserine	1-Met-His	1-Methylhistidine
5-AVA	5-Aminovaleric acid	3-Met-His	3-Methylhistidine
BABA	β -Aminobutyric acid	Nitro-Tyr	Nitrotyrosine
Betaine	Betaine	Orn	Ornithine
Carnosine	Carnosine	PAG	Phenylacetyl glycine
Cit	Citrulline	PheAlaBetaine	Phenylalanine betaine
Creatinine	Creatinine	ProBetaine	Proline betaine
Cystine	Cystine	Sarcosine	Sarcosine
DOPA	Dihydroxyphenylalanine	SDMA	Symmetric dimethylarginine
HArg	Homoarginine	Taurine	Taurine
HCys	Homocysteine	TrpBetaine	Tryptophan betaine

Bile acids (14)			
CA	Cholic acid	GLCAS	Glycolithocholic acid sulfate
CDCA	Chenodeoxycholic acid	GUDCA	Glycoursodeoxycholic acid
DCA	Deoxycholic acid	TCA	Taurocholic acid
GCA	Glycocholic acid	TCDCA	Taurochenodeoxycholic acid
GDCA	Glycodeoxycholic acid	TDCA	Taurodeoxycholic acid
GCDCA	Glycochenodeoxycholic acid	TLCA	Taurolithocholic acid
GLCA	Glycolithocholic acid	TMCA	Tauromurocholic acid

Biogenic amines (9)			
beta-Ala	β -Alanine	Putrescine	Putrescine
GABA	γ -Aminobutyric acid	Serotonin	Serotonin
Dopamine	Dopamine	Spermidine	Spermidine
Histamine	Histamine	Spermine	Spermine
PEA	Phenylethylamine		

Carbohydrates and related (1)			
H1	Hexoses (including glucose)		

Carboxylic acids (7)			
AconAcid	Aconitic acid	OH-GlutAcid	3-Hydroxyglutaric acid
DiCA(12:0)	Dodecanedioic acid	Lac	Lactic acid
DiCA(14:0)	Tetradecanedioic acid	Suc	Succinic acid
HipAcid	Hippuric acid		

Cresols (1)			
<i>p</i> -Cresol-SO4	<i>p</i> -Cresol sulfate		

Fatty acids – Free/non-covalently bound (12)			
FA 12:0	Lauric acid	FA 20:1	Eicosenoic acid
FA 14:0	Myristic acid	FA 20:2	Eicosadienoic acid
FA 16:0	Palmitic acid	FA 20:3	Eicosatrienoic acid
FA 18:0	Stearic acid	FA 20:4	Arachidonic acid (AA; ω 6)
FA 18:1	Octadecenoic acid	FA 20:5	Eicosapentaenoic acid (EPA; ω 3)
FA 18:2	Octadecadienoic acid	FA 22:6	Docosahexaenoic acid (DHA; ω 3)

Hormones and related (4)			
AbsAcid	Abcsic acid	Cortisone	Cortisone
Cortisol	Cortisol	DHEAS	Dehydroepiandrosterone sulfate

Indoles and derivatives (4)			
Indole	Indole	3-IPA	3-Indolepropionic acid
3-IAA	3-Indoleacetic acid	Ind-SO4	Indoxyl sulfate

Nucleobases and related (2)			
Hypoxanthine	Hypoxanthine	Xanthine	Xanthine

Vitamins and cofactors (1)			
Choline	Choline		

Acylcarnitines (40)			
C0	Carnitine	C10:1	Decenoylcarnitine
C2	Acetylcarnitine	C10:2	Decadienoylcarnitine
C3	Propionylcarnitine	C12	Dodecanoylcarnitine
C3-DC (C4-OH)	Malonylcarnitine (Hydroxybutyrylcarnitine)	C12-DC	Dodecanedioylcarnitine
C3-OH	Hydroxypropionylcarnitine	C12:1	Dodecenoylcarnitine
C3:1	Propenoylcarnitine	C14	Tetradecanoylcarnitine
C4	Butyrylcarnitine	C14:1	Tetradecenoylcarnitine
C4:1	Butenylcarnitine	C14:1-OH	Hydroxytetradecenoylcarnitine
C5	Valerylcarnitine	C14:2	Tetradecadienoylcarnitine
C5-DC (C6-OH)	Glutaryl carnitine (Hydroxyhexanoylcarnitine)	C14:2-OH	Hydroxytetradecadienoyl- carnitine
C5-M-DC	Methylglutaryl carnitine	C16	Hexadecanoylcarnitine
C5-OH (C3-DC-M)	Hydroxyvalerylcarnitine (Methylmalonylcarnitine)	C16-OH	Hydroxyhexadecanoylcarnitine
C5:1	Tiglylcarnitine	C16:1	Hexadecenoylcarnitine
C5:1-DC	Glutaconylcarnitine	C16:1-OH	Hydroxyhexadecenoylcarnitine
C6 (C4:1-DC)	Hexanoylcarnitine (Fumaryl carnitine)	C16:2	Hexadecadienoylcarnitine
C6:1	Hexenoylcarnitine	C16:2-OH	Hydroxyhexadecadienoyl- carnitine
C7-DC	Pimeloylcarnitine	C18	Octadecanoylcarnitine
C8	Octanoylcarnitine	C18:1	Octadecenoylcarnitine
C9	Nonanoylcarnitine	C18:1-OH	Hydroxyoctadecenoylcarnitine
C10	Decanoylcarnitine	C18:2	Octadecadienylcarnitine



Lysophosphatidylcholines (12)			
LPC 14:0	LPC 17:0	LPC 18:2	LPC 24:0
LPC 16:0	LPC 18:0	LPC 20:3	LPC 26:0
LPC 16:1	LPC 18:1	LPC 20:4	LPC 26:1

Phosphatidylcholines (78)			
PC 24:0	PC 38:0	PC O-30:0	PC O-38:5
PC 26:0	PC 38:1 ⁶	PC O-30:1	PC O-38:6
PC 28:1	PC 38:3	PC O-30:2	PC O-40:1
PC 30:0	PC 38:4	PC O-32:1	PC O-40:2
PC 30:2 ⁶	PC 38:5	PC O-32:2	PC O-40:3
PC 32:0	PC 38:6	PC O-34:0	PC O-40:4
PC 32:1	PC 40:1	PC O-34:1	PC O-40:5
PC 32:2	PC 40:2	PC O-34:2	PC O-40:6
PC 32:3	PC 40:3	PC O-34:3	PC O-42:0
PC 34:1	PC 40:4	PC O-36:0	PC O-42:1
PC 34:2	PC 40:5	PC O-36:1	PC O-42:2
PC 34:3	PC 40:6	PC O-36:2	PC O-42:3
PC 34:4	PC 42:0	PC O-36:3	PC O-42:4
PC 36:0	PC 42:1	PC O-36:4	PC O-42:5
PC 36:1	PC 42:2	PC O-36:5	PC O-44:3
PC 36:2	PC 42:4	PC O-38:0	PC O-44:4
PC 36:3	PC 42:5	PC O-38:1	PC O-44:5
PC 36:4	PC 42:6	PC O-38:2	PC O-44:6
PC 36:5	PC O-28:0	PC O-38:3	
PC 36:6	PC O-28:1	PC O-38:4	

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Sphingomyelins (15)			
SM 33:1	SM 36:1	SM 41:1	SM 43:1
SM 34:1	SM 36:2	SM 41:2	SM 44:1
SM 34:2	SM 38:3	SM 42:1	SM 44:2
SM 35:1	SM 40:4 ⁶	SM 42:2	

Ceramides (28)			
Cer d16:1/18:0	Cer d18:1/18:0-OH	Cer d18:1/24:1	Cer d18:2/20:0
Cer d16:1/20:0	Cer d18:1/18:0	Cer d18:1/25:0	Cer d18:2/22:0
Cer d16:1/22:0	Cer d18:1/18:1	Cer d18:1/26:0	Cer d18:2/23:0
Cer d16:1/23:0	Cer d18:1/20:0-OH	Cer d18:1/26:1 ⁷	Cer d18:2/24:0
Cer d16:1/24:0	Cer d18:1/20:0	Cer d18:2/14:0	Cer d18:2/24:1
Cer d18:0/16:0 ¹⁰	Cer d18:1/22:0	Cer d18:2/16:0	
Cer d18:1/14:0	Cer d18:1/23:0	Cer d18:2/18:0	
Cer d18:1/16:0	Cer d18:1/24:0	Cer d18:2/18:1	

⁶ SCIEX and Agilent only

⁷ SCIEX, Agilent, and Waters Xevo® TQ-XS only

¹⁰ Waters Xevo® TQ-S only

Dihydroceramides (8)			
Cer d18:0/18:0-OH	Cer d18:0/20:0	Cer d18:0/24:0	Cer d18:0/26:1-OH
Cer d18:0/18:0	Cer d18:0/22:0	Cer d18:0/24:1	Cer d18:0/26:1

Hexosylceramides (19)			
Hex-Cer d16:1/20:0 ⁸	Hex-Cer d18:1/18:0	Hex-Cer d18:1/24:0	Hex-Cer d18:2/18:0
Hex-Cer d16:1/22:0	Hex-Cer d18:1/18:1	Hex-Cer d18:1/24:1	Hex-Cer d18:2/20:0
Hex-Cer d16:1/24:0	Hex-Cer d18:1/20:0	Hex-Cer d18:1/26:0	Hex-Cer d18:2/22:0
Hex-Cer d18:1/14:0	Hex-Cer d18:1/22:0	Hex-Cer d18:1/26:1	Hex-Cer d18:2/23:0
Hex-Cer d18:1/16:0	Hex-Cer d18:1/23:0	Hex-Cer d18:2/16:0	Hex-Cer d18:2/24:0

Dihexosylceramides (9)			
Hex2Cer d18:1/14:0	Hex2Cer d18:1/20:0	Hex2Cer d18:1/24:1	
Hex2Cer d18:1/16:0	Hex2Cer d18:1/22:0	Hex2Cer d18:1/26:0	
Hex2Cer d18:1/18:0	Hex2Cer d18:1/24:0	Hex2Cer d18:1/26:1	

Trihexosylceramides (6)			
Hex3Cer d18:1/16:0	Hex3Cer d18:1/20:0	Hex3Cer d18:1/24:1	
Hex3Cer d18:1/18:0	Hex3Cer d18:1/22:0	Hex3Cer d18:1/26:1	

Cholesteryl esters (22)			
CE 14:0	CE 17:0	CE 20:0	CE 22:1
CE 14:1	CE 17:1	CE 20:1	CE 22:2
CE 15:0	CE 18:0	CE 20:3	CE 22:5
CE 15:1	CE 18:1	CE 20:4	CE 22:6
CE 16:0	CE 18:2	CE 20:5	
CE 16:1	CE 18:3	CE 22:0	

Diglycerides (44)			
DG 14:0_14:0	DG 16:0_20:4	DG 18:1_18:4	DG 18:2_20:4
DG 14:0_18:1	DG 16:1_18:0	DG 18:1_20:0	DG 18:3_18:3
DG 14:0_18:2	DG 16:1_18:1	DG 18:1_20:1	DG 18:3_20:2
DG 14:0_20:0	DG 16:1_18:2	DG 18:1_20:2	DG 21:0_22:6
DG 14:1_18:1	DG 16:1_20:0	DG 18:1_20:3	DG 22:1_22:2
DG 14:1_20:2	DG 17:0_17:1	DG 18:1_20:4	DG O-14:0_18:2
DG 16:0_16:0	DG 17:0_18:1	DG 18:1_22:5	DG O-16:0_18:1 ⁷
DG 16:0_16:1	DG 18:0_20:0	DG 18:1_22:6	DG O-16:0_20:4 ¹¹
DG 16:0_18:1	DG 18:0_20:4	DG 18:2_18:2	DG O-18:2_18:2 ⁹
DG 16:0_18:2	DG 18:1_18:1	DG 18:2_18:3	
DG 16:0_20:0	DG 18:1_18:2	DG 18:2_18:4	
DG 16:0_20:3	DG 18:1_18:3	DG 18:2_20:0	

⁷ SCIEX, Agilent, and Waters Xevo® TQ-XS only

⁸ Waters Xevo® TQ-XS only

⁹ Waters only

¹¹ SCIEX, Agilent, and Waters Xevo® TQ-S only

Triglycerides (242)			
TG 14:0_32:2	TG 16:0_40:6	TG 18:0_30:0	TG 18:2_30:0
TG 14:0_34:0	TG 16:0_40:7	TG 18:0_30:1	TG 18:2_30:1
TG 14:0_34:1	TG 16:0_40:8	TG 18:0_32:0	TG 18:2_31:0
TG 14:0_34:2	TG 16:1_28:0	TG 18:0_32:1	TG 18:2_32:0
TG 14:0_34:3	TG 16:1_30:1	TG 18:0_32:2	TG 18:2_32:1
TG 14:0_35:1	TG 16:1_32:0	TG 18:0_34:2	TG 18:2_32:2
TG 14:0_35:2	TG 16:1_32:1	TG 18:0_34:3	TG 18:2_33:0
TG 14:0_36:1	TG 16:1_32:2	TG 18:0_36:1	TG 18:2_33:1
TG 14:0_36:2	TG 16:1_33:1	TG 18:0_36:2	TG 18:2_33:2
TG 14:0_36:3	TG 16:1_34:0	TG 18:0_36:3	TG 18:2_34:0
TG 14:0_36:4	TG 16:1_34:1	TG 18:0_36:4	TG 18:2_34:1
TG 14:0_38:4	TG 16:1_34:2	TG 18:0_36:5	TG 18:2_34:2
TG 14:0_38:5	TG 16:1_34:3	TG 18:0_38:6	TG 18:2_34:3
TG 14:0_39:3 ⁶	TG 16:1_36:1	TG 18:0_38:7	TG 18:2_34:4
TG 14:0_40:5 ⁹	TG 16:1_36:2	TG 18:1_26:0	TG 18:2_35:1
TG 16:0_28:1	TG 16:1_36:3	TG 18:1_28:1	TG 18:2_35:2
TG 16:0_28:2	TG 16:1_36:4	TG 18:1_30:0	TG 18:2_35:3
TG 16:0_30:2	TG 16:1_36:5	TG 18:1_30:1	TG 18:2_36:0
TG 16:0_32:0	TG 16:1_38:3	TG 18:1_30:2	TG 18:2_36:1
TG 16:0_32:1	TG 16:1_38:4	TG 18:1_31:0	TG 18:2_36:2
TG 16:0_32:2	TG 16:1_38:5	TG 18:1_32:0	TG 18:2_36:3
TG 16:0_32:3	TG 17:0_32:1	TG 18:1_32:1	TG 18:2_36:4
TG 16:0_33:1	TG 17:0_34:1	TG 18:1_32:2	TG 18:2_36:5
TG 16:0_33:2	TG 17:0_34:2	TG 18:1_32:3	TG 18:2_38:4
TG 16:0_34:0	TG 17:0_34:3	TG 18:1_33:0	TG 18:2_38:5
TG 16:0_34:1	TG 17:0_36:3	TG 18:1_33:1	TG 18:2_38:6
TG 16:0_34:2	TG 17:0_36:4	TG 18:1_33:2	TG 18:3_30:0
TG 16:0_34:3	TG 17:1_32:1	TG 18:1_33:3	TG 18:3_32:0
TG 16:0_34:4	TG 17:1_34:1	TG 18:1_34:1	TG 18:3_32:1
TG 16:0_35:1	TG 17:1_34:2	TG 18:1_34:2	TG 18:3_33:2
TG 16:0_35:2	TG 17:1_34:3	TG 18:1_34:3	TG 18:3_34:0
TG 16:0_35:3	TG 17:1_36:3	TG 18:1_34:4	TG 18:3_34:1
TG 16:0_36:2	TG 17:1_36:4	TG 18:1_35:2	TG 18:3_34:2
TG 16:0_36:3	TG 17:1_36:5	TG 18:1_35:3	TG 18:3_34:3
TG 16:0_36:4	TG 17:1_38:5	TG 18:1_36:0	TG 18:3_35:2
TG 16:0_36:5	TG 17:1_38:6	TG 18:1_36:1	TG 18:3_36:1
TG 16:0_36:6	TG 17:1_38:7	TG 18:1_36:2	TG 18:3_36:2
TG 16:0_37:3	TG 17:2_34:2	TG 18:1_36:3	TG 18:3_36:3
TG 16:0_38:1	TG 17:2_34:3	TG 18:1_36:4	TG 18:3_36:4
TG 16:0_38:2	TG 17:2_36:2	TG 18:1_36:5	TG 18:3_38:5
TG 16:0_38:3	TG 17:2_36:3	TG 18:1_36:6	TG 18:3_38:6
TG 16:0_38:4	TG 17:2_36:4	TG 18:1_38:5	TG 20:0_32:3
TG 16:0_38:5	TG 17:2_38:5	TG 18:1_38:6	TG 20:0_32:4
TG 16:0_38:6	TG 17:2_38:6	TG 18:1_38:7	TG 20:0_34:1
TG 16:0_38:7	TG 17:2_38:7	TG 18:2_28:0	TG 20:1_24:3

MxP® Quant 500 kit

⁶ SCIEX and Agilent only
⁹ Waters only

Triglycerides (continued)			
TG 20:1_26:1	TG 20:2_34:4	TG 20:4_33:2	TG 22:1_32:5
TG 20:1_30:1	TG 20:2_36:5	TG 20:4_34:0	TG 22:2_32:4
TG 20:1_31:0 ⁶	TG 20:3_32:0	TG 20:4_34:1	TG 22:3_30:2
TG 20:1_32:0 ⁹	TG 20:3_32:1	TG 20:4_34:2	TG 22:4_32:0
TG 20:1_32:1	TG 20:3_32:2	TG 20:4_34:3	TG 22:4_32:2
TG 20:1_32:2	TG 20:3_34:0	TG 20:4_35:3	TG 22:4_34:2
TG 20:1_32:3	TG 20:3_34:1	TG 20:4_36:2	TG 22:5_32:0
TG 20:1_34:0	TG 20:3_34:2	TG 20:4_36:3	TG 22:5_32:1
TG 20:1_34:1	TG 20:3_34:3	TG 20:4_36:4	TG 22:5_34:1
TG 20:1_34:2	TG 20:3_36:3	TG 20:4_36:5	TG 22:5_34:2
TG 20:1_34:3	TG 20:3_36:4	TG 20:5_34:0	TG 22:5_34:3
TG 20:2_32:0	TG 20:3_36:5	TG 20:5_34:1	TG 22:6_32:0
TG 20:2_32:1	TG 20:4_30:0	TG 20:5_34:2	TG 22:6_32:1
TG 20:2_34:1	TG 20:4_32:0	TG 20:5_36:2	TG 22:6_34:1
TG 20:2_34:2	TG 20:4_32:1	TG 20:5_36:3	TG 22:6_34:2
TG 20:2_34:3	TG 20:4_32:2	TG 22:0_32:4	TG 22:6_34:3

MxP® Quant 500 kit

⁶ SCIEX and Agilent only

⁹ Waters only

AbsoluteIDQ® p400 HR kit

Amino acids (21)			
Ala	Alanine	Leu	Leucine
Arg	Arginine	Lys	Lysine
Asn	Asparagine	Met	Methionine
Asp	Aspartate	Phe	Phenylalanine
Cys	Cysteine	Pro	Proline
Glu	Glutamate	Ser	Serine
Gln	Glutamine	Thr	Threonine
Gly	Glycine	Trp	Tryptophan
His	Histidine	Tyr	Tyrosine
Ile	Isoleucine ¹²	Val	Valine
xLeu	Leucine + isoleucine		

Biogenic amines (21)			
Ac-Orn	Acetylornithine	Met-SO	Methionine sulfoxide
alpha-AAA	alpha-Aminoadipic acid	Nitro-Tyr	Nitrotyrosine
ADMA	Asymmetric dimethylarginine	PEA	Phenylethylamine
Carnosine	Carnosine	Putrescine	Putrescine
Creatinine	Creatinine	Sarcosine	Sarcosine
DOPA	Dihydroxyphenylalanine	Serotonin	Serotonin
Dopamine	Dopamine	Spermidine	Spermidine
Histamine	Histamine	Spermine	Spermine
c4-OH-Pro	<i>cis</i> -4-Hydroxyproline	SDMA	Symmetric dimethylarginine
t4-OH-Pro	<i>trans</i> -4-Hydroxyproline	Taurine	Taurine
Kynurenine	Kynurenine		

Monosaccharides (1)			
H1	Hexoses (including glucose)		

¹² Analyzed by additional LC-MS injection in parallel reaction monitoring (PRM) mode

Acylcarnitines (55)			
AC(0:0)	Carnitine	AC(10:2)	Decadienoylcarnitine
AC(2:0)	Acetylcarnitine	AC(10:3)	Decatrienoylcarnitine
AC(3:0)	Propionoylcarnitine	AC(11:0)	Dimethylnonanoylcarnitine
AC(3:0-DC)	Malonylcarnitine	AC(12:0)	Dodecanoylcarnitine
AC(3:0-OH)	Hydroxypropionoylcarnitine	AC(12:0-DC)	Dodecanedioylcarnitine
AC(3:1)	Propenoylcarnitine	AC(12:1)	Dodecenoylcarnitine
AC(4:0)	Butyrylcarnitine	AC(13:0)	Tridecanoylcarnitine
AC(4:0-DC)	Methylmalonylcarnitine	AC(14:0)	Tetradecanoylcarnitine
AC(4:0-OH)	Hydroxybutyrylcarnitine	AC(14:0-OH)	Hydroxymyristoylcarnitine
AC(4:1)	Butenylcarnitine	AC(14:1)	Tetradecenoylcarnitine
AC(4:1-DC)	Fumarylacarnitine	AC(14:1-DC)	Carboxytridecenoylcarnitine
AC(5:0)	Valerylcarnitine	AC(14:1-OH)	Hydroxytetradecenoylcarnitine
AC(5:0-DC)	Glutarylcarnitine	AC(14:2)	Tetradecadienoylcarnitine
AC(5:0-OH)	Hydroxyvalerylcarnitine	AC(14:2-OH)	Hydroxytetradecadienoylcarnitine
AC(5:1)	Tiglylcarnitine	AC(15:0)	Pentadecanoylcarnitine
AC(5:1-DC)	Glutaconylcarnitine	AC(16:0)	Hexadecanoylcarnitine
AC(6:0)	Hexanoylcarnitine	AC(16:0-OH)	Hydroxyhexadecanoylcarnitine
AC(6:0-DC)	Adipoylcarnitine	AC(16:1)	Hexadecenoylcarnitine
AC(6:0-OH)	Hydroxyhexanoylcarnitine	AC(16:1-OH)	Hydroxyhexadecenoylcarnitine
AC(6:1)	Hexenoylcarnitine	AC(16:2)	Hexadecadienoylcarnitine
AC(7:0)	Heptanoylcarnitine	AC(16:2-OH)	Hydroxyhexadecadienoylcarnitine
AC(7:0-DC)	Pimeloylcarnitine	AC(17:0)	Heptadecanoylcarnitine
AC(8:0)	Octanoylcarnitine	AC(18:0)	Octadecanoylcarnitine
AC(8:1)	Octenoylcarnitine	AC(18:1)	Octadecenoylcarnitine
AC(8:1-OH)	Hydroxyoctenoylcarnitine	AC(18:1-OH)	Hydroxyoctadecenoylcarnitine
AC(9:0)	Nonaylcarnitine	AC(18:2)	Octadecadienoylcarnitine
AC(10:0)	Decanoylcarnitine	AC(19:0)	Nonadecanoylcarnitine
AC(10:1)	Decenoylcarnitine		

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)

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

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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)	

MxP® Quant HR Xpress kit

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

Monosaccharides (1)			
H1	Hexoses (including glucose)		

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		

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

MxP® Quant HR Xpress kit

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)

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)	

MxP® Quant HR Xpress kit

AbsoluteIDQ® p180 kit

Amino acids (21)			
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
Ile	Isoleucine	Val	Valine
Leu	Leucine		

Biogenic amines (21)			
Ac-Orn	Acetylornithine	Met-SO	Methionine sulfoxide
alpha-AAA	alpha-Amino adipic acid	Nitro-Tyr ¹³	Nitrotyrosine
ADMA	Asymmetric dimethylarginine	PEA	Phenylethylamine
Carnosine	Carnosine	Putrescine	Putrescine
Creatinine	Creatinine	Sarcosine	Sarcosine
DOPA	Dihydroxyphenylalanine	Serotonin	Serotonin
Dopamine	Dopamine	Spermidine	Spermidine
Histamine	Histamine	Spermine	Spermine
c4-OH-Pro	<i>cis</i> -4-Hydroxyproline	SDMA	Symmetric dimethylarginine
t4-OH-Pro	<i>trans</i> -4-Hydroxyproline	Taurine	Taurine
Kynurenine	Kynurenine		

Monosaccharides (1)			
H1	Hexoses (including glucose)		

¹³ SCIEX, Agilent, and Waters only

Acylcarnitines (40)			
C0	Carnitine	C10:1	Decenoylcarnitine
C2	Acetylcarnitine	C10:2	Decadienylcarnitine
C3	Propionylcarnitine	C12	Dodecanoylcarnitine
C3:1	Propenoylcarnitine	C12:1	Dodecenoylcarnitine
C3-OH	Hydroxypropionylcarnitine	C12-DC	Dodecanedioylcarnitine
C4	Butyrylcarnitine	C14	Tetradecanoylcarnitine
C4:1	Butenoylcarnitine	C14:1	Tetradecenoylcarnitine
C4-OH (C3-DC)	Hydroxybutyrylcarnitine	C14:1-OH	Hydroxytetradecenoylcarnitine
C5	Valerylcarnitine	C14:2	Tetradecadienylcarnitine
C5:1	Tiglylcarnitine	C14:2-OH	Hydroxytetradecadienylcarnitine
C5:1-DC	Glutaconylcarnitine	C16	Hexadecanoylcarnitine
C5-DC (C6-OH)	Glutaryl carnitine (Hydroxyhexanoylcarnitine)	C16:1	Hexadecenoylcarnitine
C5-M-DC	Methylglutaryl carnitine	C16:1-OH	Hydroxyhexadecenoylcarnitine
C5-OH (C3-DC-M)	Hydroxyvalerylcarnitine (Methylmalonylcarnitine)	C16:2	Hexadecadienylcarnitine
C6 (C4:1-DC)	Hexanoylcarnitine (Fumaryl carnitine)	C16:2-OH	Hydroxyhexadecadienylcarnitine
C6:1	Hexenoylcarnitine	C16-OH	Hydroxyhexadecanoylcarnitine
C7-DC	Pimelylcarnitine	C18	Octadecanoylcarnitine
C8	Octanoylcarnitine	C18:1	Octadecenoylcarnitine
C9	Nonanoylcarnitine	C18:1-OH	Hydroxyoctadecenoylcarnitine
C10	Decanoylcarnitine	C18:2	Octadecadienylcarnitine
C10:1	Decenoylcarnitine	C14:2-OH	Hydroxytetradecadienylcarnitine
C10:2	Decadienylcarnitine	C16	Hexadecanoylcarnitine
C12	Dodecanoylcarnitine	C16:1	Hexadecenoylcarnitine
C12:1	Dodecenoylcarnitine	C16:1-OH	Hydroxyhexadecenoylcarnitine
C12-DC	Dodecanedioylcarnitine	C16:2	Hexadecadienylcarnitine
C14	Tetradecanoylcarnitine	C16:2-OH	Hydroxyhexadecadienylcarnitine
C14:1	Tetradecenoylcarnitine	C16-OH	Hydroxyhexadecanoylcarnitine
C14:1-OH	Hydroxytetradecenoylcarnitine	C18	Octadecanoylcarnitine
C14:2	Tetradecadienylcarnitine	C18:1	Octadecenoylcarnitine
C9	Nonanoylcarnitine	C18:1-OH	Hydroxyoctadecenoylcarnitine
C10	Decanoylcarnitine	C18:2	Octadecadienylcarnitine

AbsoluteIDQ® p180 kit

Glycerophospholipids (90)			
LPC 14:0	PC 34:3	PC 42:2	PC O-38:2
LPC 16:0	PC 34:4	PC 42:4	PC O-38:3
LPC 16:1	PC 36:0	PC 42:5	PC O-38:4
LPC 17:0	PC 36:1	PC 42:6	PC O-38:5
LPC 18:0	PC 36:2	PC O-28:0	PC O-38:6
LPC 18:1	PC 36:3	PC O-28:1	PC O-40:1
LPC 18:2	PC 36:4	PC O-30:0	PC O-40:2
LPC 20:3	PC 36:5	PC O-30:1	PC O-40:3
LPC 20:4	PC 36:6	PC O-30:2	PC O-40:4
LPC 24:0	PC 38:0	PC O-32:1	PC O-40:5
LPC 26:0	PC 38:1 ⁶	PC O-32:2	PC O-40:6
LPC 26:1	PC 38:3	PC O-34:0	PC O-42:0
PC 24:0	PC 38:4	PC O-34:1	PC O-42:1
PC 26:0	PC 38:5	PC O-34:2	PC O-42:2
PC 28:1	PC 38:6	PC O-34:3	PC O-42:3
PC 30:0	PC 40:1	PC O-36:0	PC O-42:4
PC 30:2 ⁶	PC 40:2	PC O-36:1	PC O-42:5
PC 32:0	PC 40:3	PC O-36:2	PC O-44:3
PC 32:1	PC 40:4	PC O-36:3	PC O-44:4
PC 32:2	PC 40:5	PC O-36:4	PC O-44:5
PC 32:3	PC 40:6	PC O-36:5	PC O-44:6
PC 34:1	PC 42:0	PC O-38:0	
PC 34:2	PC 42:1	PC O-38:1	

AbsoluteIDQ® p180 kit

Sphingolipids (15)			
SM 33:1	SM 36:1	SM 41:1	SM 43:1
SM 34:1	SM 36:2	SM 41:2	SM 44:1
SM 34:2	SM 38:3	SM 42:1	SM 44:2
SM 35:1	SM 40:4 ⁶	SM 42:2	

⁶ SCIEX and Agilent only

AbsoluteIDQ® Bile acids kit

Bile acids (20)			
CDCA	Chenodeoxycholic acid	MCA α	alpha-Muricholic acid
CA	Cholic acid	MCA β	beta-Muricholic acid
DCA	Deoxycholic acid	MCA ω	omega-Muricholic acid
GCDCA	Glycochenodeoxycholic acid	TCDCA	Taurochenodeoxycholic acid
GCA	Glycocholic acid	TCA	Taurocholic acid
GDCA	Glycodeoxycholic acid	TDCA	Taurodeoxycholic acid
GLCA	Glycolithocholic acid	TLCA	Taurolithocholic acid
GUDCA	Glycoursodeoxycholic acid	TMCA α/β	Tauromuricholic acid (sum of alpha and beta)
HDCA	Hyodeoxycholic acid	TUDCA	Tauroursodeoxycholic acid
LCA	Lithocholic acid	UDCA	Ursodeoxycholic acid

AbsoluteIDQ® Stero17 kit

Steroid hormones (17)	
Aldosterone	11-Deoxycortisol
Androstenedione	Dihydrotestosterone (DHT)
Androsterone	β -Estradiol (E2)
Corticosterone	Estrone (E1)
Cortisol	Etiocholanolone
Cortisone	17 α -Hydroxyprogesterone
Dehydroepiandrosterone (DHEA)	Progesterone
Dehydroepiandrosterone-sulfate (DHEA-S)	Testosterone
11-Deoxycorticosterone	

Oxysterol assay

Free (oxy-) sterols (18)	
Cholesterol	4 β -Hydroxycholesterol
7-Dehydrocholesterol	7 α -Hydroxycholesterol
Desmosterol	7 β -Hydroxycholesterol
24,25-Dihydrolanosterol	22R-Hydroxycholesterol
5 α ,6 β -Dihydroxycholestanol (THC)	24S-Hydroxycholesterol
5 α ,6 α -Epoxycholesterol	25-Hydroxycholesterol
5 β ,6 β -Epoxycholesterol	27-Hydroxycholesterol
24,25-Epoxycholesterol	7-Ketocholesterol
7 α -Hydroxycholestenone	Lanosterol

Tryptophan metabolism assay

Tryptophan metabolites (17)	
Anthranilic acid	Nicotinamide
3-Hydroxyanthranilic acid	Nicotinic acid
5-Hydroxyindoleacetic acid (5-HIAA)	Picolinic acid
3-Hydroxykynurenine	Quinaldic acid
5-Hydroxytryptophan	Quinolinic acid
3-Indolepropionic acid (IPA)	Serotonin
Kynurenic acid	Tryptophan
Kynurenine	Xanthurenic acid
Neopterin	

Acylcarnitine assay

Acylcarnitines (44)			
C0	Carnitine	C8-DC	Subarylcarnitine
C2	Acetylcarnitine	<i>trans</i> -2-C8:1	<i>trans</i> -2-Octenoylcarnitine
C3	Propionylcarnitine	C10	Decanoylcarnitine
C3-DC	Malonylcarnitine	C10-DC	Sebarylcarnitine
C3-M-DC	Methylmalonylcarnitine	<i>trans</i> -2-C10:1	<i>trans</i> -2-Decenoylcarnitine
C4	Butyrylcarnitine	C12	Dodecanoylcarnitine
Iso-C4	Isobutyrylcarnitine	C12-OH	Hydroxydodecanoylcarnitine
C4-DC	Succinylcarnitine	<i>trans</i> -2-C12:1	<i>trans</i> -2-Dodecenoylcarnitine
C4-OH	Hydroxybutyrylcarnitine	C14	Tetradecanoylcarnitine
C4-M	2-Methylbutyrylcarnitine	<i>trans</i> -2-C14:1	<i>trans</i> -2-Tetradecenoylcarnitine
C4:1-M	3-Methylcrotonylcarnitine	C14:2	Tetradecadienylcarnitine
C5	Valerylcarnitine	C16	Hexadecanoylcarnitine
Iso-C5	Isovalerylcarnitine	C16-OH	Hydroxyhexadecanoylcarnitine
Iso-C5-OH	Hydroxyisovalerylcarnitine	<i>cis</i> -9-C16:1	<i>cis</i> -9-Hexadecenoylcarnitine
C5-DC	Glutaryl carnitine	<i>trans</i> -2-C16:1	<i>trans</i> -2-Hexadecenoylcarnitine
C5-M-DC	Methylglutaryl carnitine	C16:1-OH	Hydroxyhexadecenoylcarnitine
C5-P	Pivaloylcarnitine	C18	Octadecanoylcarnitine
C5:1	Tiglylcarnitine	C18-OH	Hydroxyoctadecanoylcarnitine
C6	Hexanoylcarnitine	<i>cis</i> -9-C18:1	<i>cis</i> -9-Octadecenoylcarnitine
C6-DC	Adipoylcarnitine	C18:1-OH	Hydroxyoctadecenoylcarnitine
C6-OH	Hydroxyhexanoylcarnitine	C18:2	Octadecadienylcarnitine
C8	Octanoylcarnitine	C20:4	Arachidonoylcarnitine

Short-chain fatty acid PLUS (SCFA+) assay

Fatty acids – Free/non-covalently bound (19)			
Short-chain fatty acids (11)			
FA 2:0	Acetic acid	FA 5:0	Valeric acid
FA 3:0	Propionic acid	FA 5:0-2M	2-Methylvaleric acid
FA 3:0-2M	Isobutyric acid	FA 5:0-3M	3-Methylvaleric acid
FA 4:0	Butyric acid	FA 5:0-4M	Isocaproic acid
FA 4:0-2M	2-Methylbutyric acid	FA 6:0	Caproic acid
FA 4:0-3M	Isovaleric acid		
Medium-chain fatty acids (8)			
FA 6:0-4M	4-Methylhexanoic acid	FA 9:0	Nonanoic acid
FA 6:0-5M	5-Methylhexanoic acid	FA 10:0	Capric acid
FA 7:0	Heptanoic acid	FA 11:0	Undecanoic acid
FA 8:0	Caprylic acid	FA 12:0	Lauric acid

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