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The future of research and health

List of metabolites

Empowering discovery by quantifying over 1,500 metabolites

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biocrates list of metabolites

Discover the power of metabolic phenotyping with biocrates' kits and services

At biocrates life sciences, we enable comprehensive metabolic insights through our state-of-the-art quantitative kit technology, expert contract research services, and a trusted global network of certified laboratory partners.

Our solutions cover more than 1,500 metabolites – across our entire product portfolio, a wide range of species, and diverse sample types – requiring only minimal sample volumes and supporting a broad spectrum of research applications.

Below, you'll find an overview of our metabolomics portfolio, including all available kits and assays, the number of metabolites each covers, and the corresponding sample volume requirements. We've also included detailed lists of the metabolites and metabolite classes analyzed by our platforms. Please note that detectability may vary depending on species and sample type.

Portfolio overview

Approach	Assay name	Number of metabolites	Sample volume[1]	Page
Targeted profiling	MxP® Quant 1000 kit	1,233	40 µl[2]	9+12
	MxQuant kit	327	30 µl[2]	9
	LxQuant kit	906	10 µl[2]	12
	MxP® Quant 500 XL kit	1,019	20 µl[2]	25
	MxP® Quant 500 kit	630	10 µl[2]	26
	SMartIDQ alpha kit[3]	107	10 µl	27
	AbsoluteIDQ p400 HR kit[3]	408	10 µl	27
	MxP® Quant HR Xpress kit[3]	363	10 µl	28
	AbsoluteIDQ p180 kit	188	10 µl[2]	28
Specialized	AbsoluteIDQ Bile Acids kit	20	10-20 µl[2]	29
	AbsoluteIDQ Stero17 assay	17	250-550 µl[2]	29
	Oxysterol assay	18	30 µl	30
	Acylcarnitine assay	44	30 µl	30
	Tryptophan metabolism assay	17	60 µl	31
	Short-chain fatty acid PLUS (SCFA+) assay	19	60 µl	31

[1] Human plasma/serum, for other matrices please inquire
[2] For metabolic phenotyping services, different sample volumes may apply. Please contact sales@biocrates.com
[3] Kit product only; not available in metabolic phenotyping services

biocrates kits and services – Small molecules

Small molecule class	MxP® Quant 1000 kit	MxQuant kit	LxQuant kit	MxP® Quant 500 XL kit	MxP® Quant 500 kit	SMartIDQ alpha kit[3]	AbsoluteIDQ p400 HR kit[3]	MxP® Quant HR Xpress kit[3]	AbsoluteIDQ p180 kit	AbsoluteIDQ Bile Acids kit	AbsoluteIDQ Stero17 assay	Oxysterol assay	Acylcarnitine assay	Tryptophan metabolism assay	Short-chain fatty acid PLUS (SCFA+) assay
Total number of small molecules	327	327	NA	107	107	106	43	42	43	20	17	NA	NA	17	19
Alkaloids	2	2		1	1	1									
Amine oxides	1	1		1	1	1									
Amino acids	20	20		20	20	20	21	20	21					1	
Amino acid related	77	77		30	30	30								10	
Bile acids	24	24		14	14	14				20					
Biogenic amines	10	10		9	9	9	21	21	21					1	
Carbohydrates and related				1	1		1	1	1						
Carboxylic acids	8	8		7	7	7									
Catechols	3	3													
Cresols	2	2		1	1	1									
Dicarboxylic acids	25	25													
Fatty acids[4]	39	39		12	12	12									19
Hormones and related	5	5		4	4	4					17				
Indoles and derivatives	18	18		4	4	4								2	
Nucleobases	5	5													
Nucleobase-related	14	14		2	2	2									

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[3] Kit product only; not available in metabolic phenotyping services
[4] Free/non-covalently bound fatty acids

Small molecule class	MxP® Quant 1000 kit	MxQuant kit	LxQuant kit	MxP® Quant 500 XL kit	MxP® Quant 500 kit	SMartIDQ alpha kit[3]	AbsoluteIDQ p400 HR kit[3]	MxP® Quant HR Xpress kit[3]	AbsoluteIDQ p180 kit	AbsoluteIDQ Bile Acids kit	AbsoluteIDQ Stero17 assay	Oxysterol assay	Acylcarnitine assay	Tryptophan metabolism assay	Short-chain fatty acid PLUS (SCFA+) assay
Total number of small molecules	327	327	NA	107	107	106	43	42	43	20	17	NA	NA	17	19
Nucleotides	2	2													
Organic acids	16	16													
Phenolic acids	22	22													
Phenoxy compounds	2	2													
Polyamines	7	7													
Pyridinecarboxylic acids	6	6													
Sugars	7	7													
Tricarboxylic acids	3	3													
Vitamins and cofactors	9	9		1	1	1								3	

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[4] Free/non-covalently bound fatty acids

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biocrates kits & services – Lipids

Lipids class	MxP® Quant 1000 kit	**MxQuant kit**	LxQuant kit	MxP® Quant 500 XL kit	MxP® Quant 500 kit	SMartIDQ alpha kit[3]	AbsoluteIDQ p400 HR kit[3]	MxP® Quant HR Xpress kit[3]	AbsoluteIDQ p180 kit	AbsoluteIDQ Bile Acids kit	AbsoluteIDQ Stero17 assay	Oxysterol assay	Acylcarnitine assay	Tryptophan metabolism assay	Short-chain fatty acid PLUS (SCFA+) assay
Total number of lipids	906	NA	906	912	523	1	365	321	145	NA	NA	18	44	NA	NA
Acylcarnitines	40		40	40	40	1	55	11	40				44		
Ceramides	29		29	29	28		9	9							
Cholesteryl esters	22		22	22	22		14	14							
Diglycerides	41		41	44	44		18	18							
Dihexosylceramides	9		9	9	9										
Dihydroceramides	8		8	8	8										
Free (oxy-)sterols												18			
Hexosylceramides	20		20	19	19										
Lysophosphatidic acids	8		8	8											
Lysophosphatidylcholines	12		12	12	12		24	24	12						
Lysophosphatidylethanolamines	43		43	43											
Lysophosphatidylglycerols	10		10	10											
Lysophosphatidylinositols	15		15	16											
Lysophosphatidylserines	12		12	12											
Monoglycerides	12		12	12											
Phosphatidic acids	41		41	41											
Phosphatidylcholines	76		76	78	78		172	172	78						
Phosphatidylethanolamines	95		95	95											

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[3] Kit product only; not available in metabolic phenotyping services

Lipids class	MxP® Quant 1000 kit	**MxQuant kit**	LxQuant kit	MxP® Quant 500 XL kit	MxP® Quant 500 kit	SMartIDQ alpha kit[3]	AbsoluteIDQ p400 HR kit[3]	MxP® Quant HR Xpress kit[3]	AbsoluteIDQ p180 kit	AbsoluteIDQ Bile Acids kit	AbsoluteIDQ Stero17 assay	Oxysterol assay	Acylcarnitine assay	Tryptophan metabolism assay	Short-chain fatty acid PLUS (SCFA+) assay
Total number of lipids	906	NA	906	912	523	1	365	321	145	NA	NA	18	44	NA	NA
Phosphatidylglycerols	64		64	64											
Phosphatidylinositols	53		53	53											
Phosphatidylserines	18		18	18											
Sphinganines and sphingosines	8		8	8											
Sphinganine and sphingosine phosphates	8		8	8											
Sphingomyelins	14		14	15	15		31	31	15						
Triglycerides	242		242	242	242		42	42							
Trihexosylceramides	6		6	6	6										

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MxP® Quant 1000 small molecule panel | MxQuant kit – Overview

Analyte class (number of metabolites)		Analytical method
Small molecules (327)	Alkaloids (2)	LC-MS/MS
	Amine oxides (1)	
	Amino acids (20)	
	Amino acid-related (77)	
	Bile acids (24)	
	Biogenic amines (10)	
	Carboxylic acids (8)	
	Catechols (3)	
	Cresols (2)	
	Dicarboxylic acids (25)	
	Fatty acids (39)	
	Hormones and related (5)	
	Indoles and derivatives (18)	
	Nucleobases (5)	
	Nucleobase-related (14)	
	Nucleotides (2)	
	Organic acids (16)	
	Phenolic acids (22)	
	Phenoxy compounds (2)	
	Polyamines (7)	
	Pyridinecarboxylic acids (6)	
	Sugars (7)	
	Tricarboxylic acids (3)	
	Vitamins and cofactors (9)	

MxP® Quant 1000 lipid panel | LxQuant kit – Overview

Analyte class (number of metabolites)		Analytical method
Lipids (906)	Acylcarnitines (40)	FIA-MS/MS
	Ceramides (29)	
	Cholesteryl esters (22)	
	Diglycerides (41)	
	Dihexosylceramides (9)	
	Dihydroceramides (8)	
	Hexosylceramides (20)	
	Lysophosphatidic acids (8)	
	Lysophosphatidylcholines (12)	
	Lysophosphatidylethanolamines (43)	
	Lysophosphatidylglycerols (10)	
	Lysophosphatidylinositols (15)	
	Lysophosphatidylserines (12)	
	Monoglycerides (12)	
	Phosphatidic acids (41)	
	Phosphatidylcholines (76)	
	Phosphatidylethanolamines (95)	
	Phosphatidylglycerols (64)	
	Phosphatidylinositols (53)	
	Phosphatidylserines (18)	
	Sphinganines and sphingosines (8)	
	Sphinganine and sphingosine phosphates (8)	
	Sphingomyelins (14)	
	Triglycerides (242)	
	Trihexosylceramide (6)	

MxP® Quant 1000 small molecule panel | MxQuant kit

Alkaloids (2)			
Nicotine	Nicotine	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	Aspartic acid	Phe	Phenylalanine
Cys	Cysteine	Pro	Proline
Gln	Glutamine	Ser	Serine
Glu	Glutamic acid	Thr	Threonine
Gly	Glycine	Trp	Tryptophan
His	Histidine	Tyr	Tyrosine
Ile	Isoleucine	Val	Valine

Amino acid-related (77)			
1-Met-His	1-Methylhistidine	Hypotaurine	Hypotaurine
3-Met-2-oxovaleric acid	3-Methyl-2-oxovaleric acid	Imidazole-propionic acid	Imidazolepropionic acid
3-Met-His	3-Methylhistidine	Kynurenine	Kynurenine
3-OH-Anthranilic acid	3-Hydroxyanthranilic acid	Met-SO	Methionine sulfoxide
3-OH-Kynurenine	3-Hydroxykynurenine	N2-Ac-Lys	N2-Acetyllysine
4-Guanidino-butanoic acid	4-Guanidinobutanoic acid	N6-Ac-Lys	N6-Acetyllysine
4-Met-2-oxovaleric acid	2-Oxoisocaproic acid	N-Ac-Ala	N-Acetylalanine
5-Amino-4-oxovaleric acid	5-Amino-4-oxovaleric acid	N-Ac-Arg	N-Acetylarginine
5-AVA	5-Aminovaleric acid	N-Ac-Asn	N-Acetylasparagine
5-OH-Trp	5-Hydroxytryptophan	N-Ac-Asp	N-Acetylaspartic acid
5-Oxo-Pro	5-Oxoproline	N-Ac-Gln	N-Acetylglutamine

Amino acid-related (77) continued			
AABA	α-Aminobutyric acid	N-Ac-Glu	N-Acetylglutamic acid
Ac-Orn	Acetylornithine	N-Ac-Gly	N-Acetylglycine
ADMA	Asymmetric dimethylarginine	N-Ac-His	N-Acetylhistidine
Agmatine	Agmatine	N-Ac-Ile	N-Acetylisoleucine
a-Ketoiso-valeric acid	α-Ketoisovaleric acid	N-Ac-Leu	N-Acetylleucine
alpha-AAA	α-Aminoadipic acid	N-Ac-Met	N-Acetylmethionine
Anserine	Anserine	N-Ac-Phe	N-Acetylphenylalanine
Anthranilic -acid	Anthranilic acid	N-Ac-Pro	N-Acetylproline
Arginino-Suc	Argininosuccinic acid	N-Ac-Ser	N-Acetylserine
BABA	β-Aminobutyric acid	N-Ac-Trp	N-Acetyltryptophan
BAIBA	3-Aminoisobutyric acid	N-Ac-Tyr	N-Acetyltyrosine
Betaine	Betaine	N-Ac-Val	N-Acetylvaline
c4-OH-Pro	*cis*-4-Hydroxyproline	Nitro-Tyr	Nitrotyrosine
Carbamoyl-PO4	Carbamoylphosphate	N-Met-Asp	N-Methylaspartic acid
Carnosine	Carnosine	N-Nitroso-Pro	N-Nitrosoproline
Cinnamoyl-Gly	Cinnamoylglycine	Orn	Ornithine
Cit	Citrulline	PAG	Phenylacetylglycine
Creatine	Creatine	PheAlaBetaine	Phenylalanine betaine
Creatinine	Creatinine	Phenylacetyl-glutamine	Phenylacetylglutamine
Cystine	Cystine	ProBetaine	Proline betaine
DMG	Dimethylglycine	Sarcosine	Sarcosine
DOPA	Dihydroxyphenylalanine	SDMA	Symmetric dimethylarginine
Furoyl-Gly	Furoylglycine	t4-OH-Pro	*trans*-4-Hydroxyproline
Guanidino-acetic acid	Guanidinoacetic acid	Taurine	Taurine
HArg	Homoarginine	TrpBetaine	Tryptophan betaine
HCit	Homocitrulline	Tryptamine	Tryptamine
HCys	Homocysteine	Tyramine	Tyramine
HSer	Homoserine		

Bile acids (24)			
12-KetoDCA	12-Ketodeoxycholic acid	IsoLCA	Isolithocholic acid
3-EpiDCA	3-Epideoxycholic acid	IsoUDCA	Isoursodeoxycholic acid
7-KetoDCA	7-Ketodeoxycholic acid	LCA	Lithocholic acid
CA	Cholic acid	NorDCA	Nordeoxycholic acid
CDCA	Chenodeoxycholic acid	TCA	Taurocholic acid
DCA	Deoxycholic acid	TCDCA	Taurochenodeoxycholic acid

Bile acids (24) continued			
GCA	Glycocholic acid	TDCA	Taurodeoxycholic acid
GCDCA	Glycochenodeoxycholic acid	THDCA	Taurohyodeoxycholic acid
GDCA	Glycodeoxycholic acid	TLCA	Taurolithocholic acid
GLCA	Glycolithocholic acid	TMCA	Tauromuricholic acids
GLCAS	Glycolithocholic acid sulfate	TUDCA	Tauroursodeoxycholic acid
GUDCA	Glycoursodeoxycholic acid	UDCA	Ursodeoxycholic acid

Biogenic amines (10)			
beta-Ala	β-Alanine	Putrescine	Putrescine
GABA	γ-Aminobutyric acid	Serotonin	Serotonin
Dopamine	Dopamine	Spermidine	Spermidine
Histamine	Histamine	Spermine	Spermine
PEA	Phenylethylamine	Urea	Urea

Carboxylic acids (8)			
2-OH-Butyric acid	2-Hydroxybutyric acid	HipAcid	Hippuric acid
3-OH-Butyric acid	3-Hydroxybutyric acid	Lac	Lactic acid
Glycolic acid	Glycolic acid	Mevalonic acid	Mevalonic acid
Glyoxylic acid	Glyoxylic acid	Pyruvic acid	Pyruvic acid

Catechols (3)			
3,4-DiOH-Benzaldehyde	3,4-Dihydroxybenzaldehyde	Norepinephrine	Norepinephrine
Epinephrine	Epinephrine		

Cresols (2)			
p-Cresol glucuronide	*p*-Cresol glucuronide	*p*-Cresol-SO4	*p*-Cresol sulfate

Dicarboxylic acids (25)			
2-OH-Glutaric acid	2-Hydroxyglutaric acid	Fumaric acid	Fumaric acid
3-HMGA	3-Hydroxymethylglutaric acid	Glutaric acid	Glutaric acid
3-Met-adipic acid	3-Methyladipic acid	Itaconic acid	Itaconic acid

Dicarboxylic acids (25) continued			
3-Met-glutaric acid	3-Methylglutaric acid	Maleic acid	Maleic acid
3-OH-Glutaric acid	3-Hydroxyglutaric acid	Malic acid	Malic acid
3-OH-Sebacic acid	3-Hydroxysebacic acid	Malonic acid	Malonic acid
Adipic acid	Adipic acid	Methylmalonic acid	Methylmalonic acid
a-Ketoglutaric acid	α-Ketoglutaric acid	Oxalic acid	Oxalic acid
Citramalic acid	Citramalic acid	Oxaloacetic acid	Oxaloacetic acid
DiCA 12:0	Dodecanedioic acid	Suberic acid	Suberic acid
DiCA 14:0	Tetradecanedioic acid	Suc	Succinic acid
E-3-Met-glutaconic acid	E-3-Methylglutaconic acid	Z-3-Met-glutaconic acid	Z-3-Methylglutaconic acid
Ethylmalonic acid	Ethylmalonic acid		

Fatty acids (39)			
FA 2:0	Acetic acid	FA 16:1	Palmitoleic acid
FA 3:0	Propanoic acid	FA 18:0	Stearic acid
FA 3:0-2M	Isobutyric acid	FA 18:1	Oleic acid
FA 4:0	Butyric acid	FA 18:2	Linoleic acid
FA 4:0-2M	2-Methylbutyric acid	FA 18:3	Octadecatrienoic acid
FA 4:0-3M	Isovaleric acid	FA 20:0	Arachidic acid
FA 5:0	Valeric acid	FA 20:1n-9	Gondoic acid
FA 5:0-3M	3-Methylvaleric acid	FA 20:2	Eicosadienoic acid
FA 5:0-4M	Isocaproic acid	FA 20:3n-6	Dihomo-γ-linolenic acid (ω6)
FA 6:0	Caproic acid	FA 20:3n-9	Mead acid
FA 7:0	Heptanoic acid	FA 20:4n-6 (AA)	Arachidonic acid (AA; ω6)
FA 8:0	Caprylic acid	FA 20:5n-3 (EPA)	Eicosapentaenoic acid (EPA; ω3)
FA 9:0	Nonanoic acid	FA 22:0	Behenic acid
FA 10:0	Capric acid	FA 22:4n-6	Docosatetraenoic acid (ω6)
FA 11:0	Undecanoic acid	FA 22:5n-3 (DPA)	Docosapentaenoic acid (DPA, ω3)
FA 12:0	Lauric acid	FA 22:6n-3 (DHA)	Docosahexaenoic acid (DHA; ω3)
FA 14:0	Myristic acid	FA 24:0	Lignoceric acid

Fatty acids (39) continued			
FA 14:1n-5	Myristoleic acid	FA 24:1n-9	Nervonic acid
FA 15:0	Pentadecanoic acid	FA 24:4n-6	Tetracosatetraenoic acid (**ω**6)
FA 16:0	Palmitic acid		

Hormones and related (5)			
Cortisol	Cortisol	T3	3,3',5-Triiodothyronine (T3)
Cortisone	Cortisone	T4	Thyroxine (T4)
DHEAS	Dehydroepiandrosterone sulfate		

Indoles and derivatives (18)			
3-IAA	3-Indoleacetic acid	Indoleacrylic acid	Indoleacrylic acid
3-IPA	3-Indolepropionic acid	Indolealde-hyde	Indolealdehyde
5-HIAA	5-Hydroxyindoleacetic acid	Indole-Lac	Indolelactic acid
IAG	Indolylacryloylglycine	Indolepyruvic acid	Indolepyruvic acid
Indole-3-acetamide	Indole-3-acetamide	Indoxyl glucuronide	Indoxyl glucuronide
Indole-3-carboxylic acid	Indole-3-carboxylic acid	Ind-SO4	Indoxyl sulfate
Indole-3-ethanol	Indole-3-ethanol	Melatonin	Melatonin
Indole-3-methanol	Indole-3-methanol	Met-IAA	Methylindole-3-acetic acid
Indoleacet-aldehyde	Indoleacetaldehyde	Met-IPA	Methylindole-3-propionic acid

Nucleobases (5)			
Adenine	Adenine	Thymine	Thymine
Cytosine	Cytosine	Uracil	Uracil
Guanine	Guanine		

Nucleobase-related (14)			
Adenosine	Adenosine	Inosine	Inosine
AHCys	S-Adenosylhomocysteine	N-Ac-Cytidine	N4-Acetylcytidine
Cytidine	Cytidine	Orotic acid	Orotic acid
Deoxycytidine	Deoxycytidine	Thymidine	Thymidine
Deoxyguano-sine	Deoxyguanosine	Uric acid	Uric acid
Guanosine	Guanosine	Uridine	Uridine
Hypoxanthine	Hypoxanthine	Xanthine	Xanthine

Nucleotides (2)			
cAMP	Adenosine monophosphate, cyclic (cAMP)	cGMP	Guanosine monophosphate, cyclic (cGMP)

Organic acids (16)			
2,5-Furandi-carboxylic acid	Furan-2,5-dicarboxylic acid	4-Quinoline-carboxylic acid	4-Quinolinecarboxylic acid
2-Met-HipAcid	2-Methylhippuric acid	Abscisic acid	Abscisic acid
2-OH-2-Met-butyric acid	2-Hydroxy-2-methylbutyric acid	Argininic acid	Argininic acid
2-OH-Isobutyric acid	2-Hydroxyisobutyric acid	Bilirubin	Bilirubin
3-Guanidino-propionic acid	3-Guanidinopropionic acid	Biliverdin	Biliverdin
3-OH-HipAcid	3-Hydroxyhippuric acid	CMPF	3-Carboxy-4-methyl-5-propyl-2-furanpropionic acid
3-OH-Isobutyric acid	3-Hydroxyisobutyric acid	Glyceric acid	Glyceric acid
4-OH-HipAcid	4-Hydroxyhippuric acid	Nicotinuric acid	Nicotinuric acid

Phenolic acids (22)			
2-OH-Benzoic acid	2-Hydroxybenzoic acid	DOPAC	3,4-Dihydroxyphenylacetic acid
2-OH-Phenylacetic acid	2-Hydroxyphenylacetic acid	Homovanillic acid	Homovanillic acid
3-(3-OH-Phenyl)-propanoic acid	3-(3-Hydroxyphenyl)propanoic acid	HPHPA	3-(3-Hydroxyphenyl)-3-hydroxypropanoic acid
3,5-DiOH-Benzoic acid	3,5-Dihydroxybenzoic acid	OH-Phenyl-Lac	Hydroxyphenyllactic acid
3-OH-Phenylacetic acid	3-Hydroxyphenylacetic acid	Phenylacetic acid	Phenylacetic acid
3-OH-Phenylpyruvic acid	3-Hydroxyphenylpyruvic acid	Phenyl-Lac	Phenyllactic acid
4-OH-Benzoic acid	4-Hydroxybenzoic acid	Phenylpyruvic acid	Phenylpyruvic acid
4-OH-Phenylacetic acid	4-Hydroxyphenylacetic acid	t-p-Coumaric acid	trans-p-Coumaric acid
4-OH-Phenylpyruvic acid	4-Hydroxyphenylpyruvic acid	Vanillactic acid	Vanillactic acid
Benzoic acid	Benzoic acid	Vanillic acid	Vanillic acid
Desamino-Tyr	Desaminotyrosine	Vanillylmandelic acid	Vanillylmandelic acid

Phenoxy compounds (2)			
4-EPS	4-Ethylphenyl sulfate	Phenylgluc-uronide	Phenylglucuronide

Polyamines (7)			
Cadaverine	Cadaverine	N1-Ac-Spermine	N1-Acetylspermine
N1,N8-Di-Ac-Spermidine	N1,N8-Diacetylspermidine	N8-Ac-Spermidine	N8-Acetylspermidine
N1,N12-Di-Ac-Spermine	N1,N12-Diacetylspermine	N-Ac-Putrescine	N-Acetylputrescine
N1-Ac-Spermidine	N1-Acetylspermidine		

Pyridinecarboxylic acids (6)			
Isonicotinic acid	Isonicotinic acid	Quinaldic acid	Quinaldic acid
Kynurenic acid	Kynurenic acid	Quinolinic acid	Quinolinic acid
Picolinic acid	Picolinic acid	Xanthurenic acid	Xanthurenic acid

Sugars (7)			
3-Deoxy-glucosone	3-Deoxyglucosone	NeuAc	Acetylneuraminic acid
Fructose	Fructose	Ribose	Ribose
Glucose	Glucose	Threonic acid	Threonic acid
Mannose	Mannose		

Tricarboxylic acids (3)			
AconAcid	Aconitic acid	Isocitric acid	Isocitric acid
Citric acid	Citric acid		

Vitamins and cofactors (9)			
Biotin (B7)	Biotin (B7)	Pantothenic acid (B5)	Pantothenic acid (B5)
Choline	Choline	PMP	Pyridoxamine 5'-phosphate
Folic acid (B9)	Folic acid (B9)	Pyridoxine (B6)	Pyridoxine (B6)
Nicotinamide (B3)	Nicotinamide (B3)	Riboflavin (B2)	Riboflavin (B2)
Nicotinic acid (B3)	Nicotinic acid (B3)		

MxP® Quant 1000 lipid panel | LxQuant kit – Overview

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)	Glutarylcarnitine (Hydroxyhexanoylcarnitine)	C14:2-OH	Hydroxytetradecadienoyl-carnitine
C5-M-DC	Methylglutarylcarnitine	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 (Fumarylcarnitine)	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	Octadecadienoylcarnitine

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	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	

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

Cholesteryl esters (22) continued			
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 (41)			
DG 14:0_14:0	DG 16:0_20:4	DG 18:1_20:1	DG 18:3_20:2
DG 14:0_18:1	DG 16:1_18:0	DG 18:1_20:2	DG 21:0_22:6
DG 14:0_18:2	DG 16:1_18:1	DG 18:1_20:3	DG 22:1_22:2
DG 14:0_20:0	DG 16:1_18:2	DG 18:1_20:4	DG O-14:0_18:2
DG 14:1_18:1	DG 16:1_20:0	DG 18:1_22:5	DG O-16:0_18:1
DG 14:1_20:2	DG 17:0_18:1	DG 18:1_22:6	DG O-18:2_18:2
DG 16:0_16:0	DG 18:0_20:4	DG 18:2_18:2	
DG 16:0_16:1	DG 18:1_18:1	DG 18:2_18:3	
DG 16:0_18:1	DG 18:1_18:2	DG 18:2_18:4	
DG 16:0_18:2	DG 18:1_18:3	DG 18:2_20:0	
DG 16:0_20:0	DG 18:1_18:4	DG 18:2_20:4	
DG 16:0_20:3	DG 18:1_20:0	DG 18:3_18:3	

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	

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 (20)			
Hex-Cer d16:1/20:0	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

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

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

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	

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	

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

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

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

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	

Phosphatidylcholines (76)			
PC 24:0	PC 38:3	PC O-30:2	PC O-40:1
PC 26:0	PC 38:4	PC O-32:1	PC O-40:2
PC 28:1	PC 38:5	PC O-32:2	PC O-40:3
PC 30:0	PC 38:6	PC O-34:0	PC O-40:4
PC 32:0	PC 40:1	PC O-34:1	PC O-40:5
PC 32:1	PC 40:2	PC O-34:2	PC O-40:6
PC 32:2	PC 40:3	PC O-34:3	PC O-42:0
PC 32:3	PC 40:4	PC O-36:0	PC O-42:1
PC 34:1	PC 40:5	PC O-36:1	PC O-42:2
PC 34:2	PC 40:6	PC O-36:2	PC O-42:3
PC 34:3	PC 42:0	PC O-36:3	PC O-42:4
PC 34:4	PC 42:1	PC O-36:4	PC O-42:5
PC 36:0	PC 42:2	PC O-36:5	PC O-44:3
PC 36:1	PC 42:4	PC O-38:0	PC O-44:4
PC 36:2	PC 42:5	PC O-38:1	PC O-44:5
PC 36:3	PC 42:6	PC O-38:2	PC O-44:6
PC 36:4	PC O-28:0	PC O-38:3	
PC 36:5	PC O-28:1	PC O-38:4	
PC 36:6	PC O-30:0	PC O-38:5	
PC 38:0	PC O-30:1	PC O-38:6	

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	

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

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	

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	

Sphinganines 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 (14)			
SM 33:1	SM 36:1	SM 41:2	SM 44:1
SM 34:1	SM 36:2	SM 42:1	SM 44:2
SM 34:2	SM 38:3	SM 42:2	
SM 35:1	SM 41:1	SM 43:1	

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

Triglycerides (242) continued			
TG 18:1_33:2	TG 18:2_36:1	TG 20:1_34:3	TG 20:5_36:3
TG 18:1_33:3	TG 18:2_36:2	TG 20:2_32:0	TG 22:0_32:4
TG 18:1_34:1	TG 18:2_36:3	TG 20:2_32:1	TG 22:1_32:5
TG 18:1_34:2	TG 18:2_36:4	TG 20:2_34:1	TG 22:2_32:4
TG 18:1_34:3	TG 18:2_36:5	TG 20:2_34:2	TG 22:3_30:2
TG 18:1_34:4	TG 18:2_38:4	TG 20:2_34:3	TG 22:4_32:0
TG 18:1_35:2	TG 18:2_38:5	TG 20:2_34:4	TG 22:4_32:2
TG 18:1_35:3	TG 18:2_38:6	TG 20:2_36:5	TG 22:4_34:2
TG 18:1_36:0	TG 18:3_30:0	TG 20:3_32:0	TG 22:5_32:0
TG 18:1_36:1	TG 18:3_32:0	TG 20:3_32:1	TG 22:5_32:1
TG 18:1_36:2	TG 18:3_32:1	TG 20:3_32:2	TG 22:5_34:1
TG 18:1_36:3	TG 18:3_33:2	TG 20:3_34:0	TG 22:5_34:2
TG 18:1_36:4	TG 18:3_34:0	TG 20:3_34:1	TG 22:5_34:3
TG 18:1_36:5	TG 18:3_34:1	TG 20:3_34:2	TG 22:6_32:0
TG 18:1_36:6	TG 18:3_34:2	TG 20:3_34:3	TG 22:6_32:1
TG 18:1_38:5	TG 18:3_34:3	TG 20:3_36:3	TG 22:6_34:1
TG 18:1_38:6	TG 18:3_35:2	TG 20:3_36:4	TG 22:6_34:2
TG 18:1_38:7	TG 18:3_36:1	TG 20:3_36:5	TG 22:6_34:3
TG 18:2_28:0	TG 18:3_36:2	TG 18:0_32:1	
TG 18:2_30:0	TG 17:0_34:2	TG 18:0_32:2	

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	

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)	FIA-MS/MS
Lipids (912)	Acylcarnitines (40)	
	Lysophosphatidic acids (8)	
	Phosphatidic acids (41)	
	Lysophosphatidylcholines (12)	
	Phosphatidylcholines (78)	
	Lysophosphatidylethanolamines (43)	
	Phosphatidylethanolamines (95)	
	Lysophophatidylglycerols (10)	
	Phosphatidylglycerols (64)	
	Lysophosphatidylinositols (16)	
	Phosphatidylinositols (53)	
	Lysophosphatidylserines (12)	
	Phosphatidylserines (18)	
	Sphinganines 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)	

* For detailed metabolite list, please refer to the MxP® Quant 500 XL kit metabolite list document

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)	FIA-MS/MS
Lipids (523)	Acylcarnitines (40)	
	Lysophosphatidylcholines (14)	
	Phosphatidylcholines (76)	
	Sphingomyelins (15)	
	Ceramides (28)	
	Dihydroceramides (8)	
	Hexosylceramides (19)	
	Dihexosylceramides (9)	
	Trihexosylceramides (6)	
	Cholesteryl esters (22)	
	Diglycerides (44)	
	Triglycerides (242)	

* For detailed metabolite list, please refer to the MxP® Quant 500 kit metabolite list document

SMartIDQ alpha 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 (31)	
	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)	

* For detailed metabolite list, please refer to the SMartIDQ alpha kit metabolite list document

AbsoluteIDQ p400 HR kit – Overview*

Analyte class (number of metabolites)		Analytical method
Small molecules (43)	Amino acids (21)	LC-MS/MS
	Biogenic amines (21)	
	Carbohydrates and related (1)	FIA-MS/MS
Lipids (365)	Acylcarnitines (55)	
	Lysophosphatidylcholines (24)	
	Phosphatidylcholines (172)	
	Sphingomyelins (31)	
	Ceramides (9)	
	Cholesteryl esters (14)	
	Diglycerides (18)	
	Triglycerides (42)	

* For detailed metabolite list, please refer to the AbsoluteIDQ p400 HR kit metabolite list document

MxP® Quant HR Xpress kit – Overview*

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

* For detailed metabolite list, please refer to the MxP® Quant HR Xpress kit metabolite list document

AbsoluteIDQ p180 kit – Overview*

Analyte class (number of metabolites)		Analytical method
Small molecules (43)	Amino acids (21)	LC-MS/MS
	Biogenic amines (21)	
	Monosaccharides (1)	FIA-MS/MS
Lipids (145)	Acylcarnitines (40)	
	Glycerophospholipids (90)	
	Sphingolipids (15)	

* For detailed metabolite list, please refer to the AbsoluteIDQ p180 kit metabolite list document

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-Murichoclic 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 assay

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

Oxysterol assay

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

Acylcarnitine assay

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

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	

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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biocrates life sciences gmbh
Eduard-Bodem-Gasse 8 | 6020 Innsbruck | Austria
biocrates.com

EU | APAC | RoW +43 512 579 823
North America +1 774 772 4365
office@biocrates.com