

Full List of Nightingale's Biomarkers

Delivered measurements for metabolic profiling service

- Blood
- Urine
- Cord blood
- Cerebrospinal fluid (CSF)

List of blood biomarkers 1/2

Cholesterol		Other lipids		Glycolysis related metabolites		Medium VLDL (average diameter 44.5 nm)	
Total cholesterol	mmol/l	Phosphoglycerides	mmol/l	Glucose	mmol/l	Concentration of medium VLDL particles	mmol/l
Total cholesterol minus HDL-C	mmol/l	Ratio of triglycerides to phosphoglycerides	ratio	Lactate	mmol/l	Total lipids in medium VLDL	mmol/l
Remnant cholesterol		Total cholines	mmol/l	Pyruvate	mmol/l	Phospholipids in medium VLDL	mmol/l
(non-HDL, non-LDL -cholesterol)	mmol/l	Phosphatidylcholines	mmol/l	Citrate **	mmol/l	Cholesterol in medium VLDL	mmol/l
VLDL cholesterol	mmol/l	Sphingomyelins	mmol/l	Glycerol *	mmol/l	Cholesteryl esters in medium VLDL	mmol/l
Clinical LDL cholesterol	mmol/l					Free cholesterol in medium VLDL	mmol/l
LDL cholesterol	mmol/l	Apolipoproteins		Ketone bodies		Triglycerides in medium VLDL	mmol/l
HDL cholesterol	mmol/l	Apolipoprotein B	g/l	3-Hydroxybutyrate	mmol/l		
		Apolipoprotein A1	g/l	Acetate	mmol/l	Small VLDL (average diameter 36.8 nm)	
		Ratio of apolipoprotein B to apolipoprotein A1	ratio	Acetoacetate	mmol/l	Concentration of small VLDL particles	mmol/l
Triglycerides				Acetone	mmol/l	Total lipids in small VLDL	mmol/l
Total triglycerides	mmol/l	Fatty acids				Phospholipids in small VLDL	mmol/l
Triglycerides in VLDL	mmol/l	Total fatty acids	mmol/l	Fluid balance		Cholesterol in small VLDL	mmol/l
Triglycerides in LDL	mmol/l	Degree of unsaturation	degree	Creatinine	mmol/l	Cholesteryl esters in small VLDL	mmol/l
Triglycerides in HDL	mmol/l	Omega-3 fatty acids	mmol/l	Albumin	g/l	Free cholesterol in small VLDL	mmol/l
		Omega-6 fatty acids	mmol/l			Triglycerides in small VLDL	mmol/l
		Polyunsaturated fatty acids	mmol/l	Inflammation			
Phospholipids		Monounsaturated fatty acids	mmol/l	Glycoprotein acetyls	mmol/l	Very small VLDL (average diameter 31.3 nm)	
Total phospholipids in lipoprotein particles	mmol/l	Saturated fatty acids	mmol/l			Concentration of very small VLDL particles	mmol/l
Phospholipids in VLDL	mmol/l	Linoleic acid	mmol/l	Lipoprotein subclasses		Total lipids in very small VLDL	mmol/l
Phospholipids in LDL	mmol/l	Docosahexaenoic acid	mmol/l	Chylomicrons and extremely large VLDL (particle diameters from 75 nm upwards)		Phospholipids in very small VLDL	mmol/l
Phospholipids in HDL	mmol/l			Concentration of chylomicrons and extremely large VLDL particles	mmol/l	Cholesterol in very small VLDL	mmol/l
		Fatty acid ratios		Total lipids in chylomicrons and extremely large VLDL	mmol/l	Cholesteryl esters in very small VLDL	mmol/l
Cholesteryl esters		Ratio of omega-3 fatty acids to total fatty acids	%	Phospholipids in chylomicrons and extremely large VLDL	mmol/l	Free cholesterol in very small VLDL	mmol/l
Total esterified cholesterol	mmol/l	Ratio of omega-6 fatty acids to total fatty acids	%	Cholesterol in chylomicrons and extremely large VLDL	mmol/l	Triglycerides in very small VLDL	mmol/l
Cholesterol esters in VLDL	mmol/l	Ratio of polyunsaturated fatty acids to total fatty acids	%	Cholesteryl esters in chylomicrons and extremely large VLDL	mmol/l		
Cholesterol esters in LDL	mmol/l	Ratio of saturated fatty acids to total fatty acids	%	Free cholesterol in chylomicrons and extremely large VLDL	mmol/l	IDL (average diameter 28.6 nm)	
Cholesterol esters in HDL	mmol/l	Ratio of linoleic acid to total fatty acids	%	Triglycerides in chylomicrons and extremely large VLDL	mmol/l	Concentration of IDL particles	mmol/l
		Ratio of docosahexaenoic acid to total fatty acids	%			Total lipids in IDL	mmol/l
Free cholesterol		Ratio of polyunsaturated fatty acids to monounsaturated fatty acids	ratio	Very large VLDL (average diameter 64 nm)		Phospholipids in IDL	mmol/l
Total free cholesterol	mmol/l	Ratio of omega-6 fatty acids to omega-3 fatty acids	ratio	Concentration of very large VLDL particles	mmol/l	Cholesterol in IDL	mmol/l
Free cholesterol in VLDL	mmol/l			Total lipids in very large VLDL	mmol/l	Cholesteryl esters in IDL	mmol/l
Free cholesterol in LDL	mmol/l	Amino acids		Phospholipids in very large VLDL	mmol/l	Free cholesterol in IDL	mmol/l
Free cholesterol in HDL	mmol/l	Alanine	mmol/l	Cholesterol in very large VLDL	mmol/l	Triglycerides in IDL	mmol/l
		Glutamine	mmol/l	Cholesteryl esters in very large VLDL	mmol/l		
Total lipids		Glycine	mmol/l	Free cholesterol in very large VLDL	mmol/l	Large LDL (average diameter 25.5 nm)	
Total lipids in lipoprotein particles	mmol/l	Histidine	mmol/l	Triglycerides in very large VLDL	mmol/l	Concentration of large LDL particles	mmol/l
Total lipids in VLDL	mmol/l					Total lipids in large LDL	mmol/l
Total lipids in LDL	mmol/l	Branched-chain amino acids		Large VLDL (average diameter 53.6 nm)		Phospholipids in large LDL	mmol/l
Total lipids in HDL	mmol/l	Total concentration of branched -chain amino acids (leucine + isoleucine + valine)	mmol/l	Concentration of large VLDL particles	mmol/l	Cholesterol in large LDL	mmol/l
		Isoleucine	mmol/l	Total lipids in very large VLDL	mmol/l	Cholesteryl esters in large LDL	mmol/l
Lipoprotein particle concentrations		Leucine	mmol/l	Phospholipids in very large VLDL	mmol/l	Free cholesterol in large LDL	mmol/l
Total concentration of lipoprotein particles	mmol/l	Valine	mmol/l	Cholesterol in very large VLDL	mmol/l	Triglycerides in large LDL	mmol/l
Concentration of LDL particles	mmol/l			Cholesteryl esters in very large VLDL	mmol/l		
Concentration of VLDL particles	mmol/l	Aromatic amino acids		Free cholesterol in very large VLDL	mmol/l	Medium LDL (average diameter 23 nm)	
Concentration of HDL particles	mmol/l	Phenylalanine	mmol/l	Triglycerides in very large VLDL	mmol/l	Concentration of medium LDL particles	mmol/l
		Tyrosine	mmol/l			Total lipids in medium LDL	mmol/l
Lipoprotein particle sizes				Very large VLDL (average diameter 64 nm)		Phospholipids in medium LDL	mmol/l
Average diameter for VLDL particles	nm			Concentration of very large VLDL particles	mmol/l	Cholesterol in medium LDL	mmol/l
Average diameter for LDL particles	nm			Total lipids in large VLDL	mmol/l	Cholesteryl esters in medium LDL	mmol/l
Average diameter for HDL particles	nm			Phospholipids in large VLDL	mmol/l	Free cholesterol in medium LDL	mmol/l
				Cholesterol in large VLDL	mmol/l	Triglycerides in medium LDL	mmol/l
				Cholesteryl esters in large VLDL	mmol/l		
				Free cholesterol in large VLDL	mmol/l		
				Triglycerides in large VLDL	mmol/l		

All listed biomarkers are available for Serum and Heparin plasma samples.

Biomarkers marked with * are not available for EDTA plasma samples.

Biomarkers marked with ** are not available for Citrate plasma samples.

List of blood biomarkers 2/2

Small LDL (average diameter 18.7 nm)

Concentration of small LDL particles	mmol/l
Total lipids in small LDL	mmol/l
Phospholipids in small LDL	mmol/l
Cholesterol in small LDL	mmol/l
Cholesteryl esters in small LDL	mmol/l
Free cholesterol in small LDL	mmol/l
Triglycerides in small LDL	mmol/l

Very large HDL (average diameter 14.3 nm)

Concentration of very large HDL particles	mmol/l
Total lipids in very large HDL	mmol/l
Phospholipids in very large HDL	mmol/l
Cholesterol in very large HDL	mmol/l
Cholesteryl esters in very large HDL	mmol/l
Free cholesterol in very large HDL	mmol/l
Triglycerides in very large HDL	mmol/l

Large HDL (average diameter 12.1 nm)

Concentration of large HDL particles	mmol/l
Total lipids in large HDL	mmol/l
Phospholipids in large HDL	mmol/l
Cholesterol in large HDL	mmol/l
Cholesteryl esters in large HDL	mmol/l
Free cholesterol in large HDL	mmol/l
Triglycerides in large HDL	mmol/l

Medium HDL (average diameter 10.9 nm)

Concentration of medium HDL particles	mmol/l
Total lipids in medium HDL	mmol/l
Phospholipids in medium HDL	mmol/l
Cholesterol in medium HDL	mmol/l
Cholesteryl esters in medium HDL	mmol/l
Free cholesterol in medium HDL	mmol/l
Triglycerides in medium HDL	mmol/l

Small HDL (average diameter 8.7 nm)

Concentration of small HDL particles	mmol/l
Total lipids in small HDL	mmol/l
Phospholipids in small HDL	mmol/l
Cholesterol in small HDL	mmol/l
Cholesteryl esters in small HDL	mmol/l
Free cholesterol in small HDL	mmol/l
Triglycerides in small HDL	mmol/l

Relative lipoprotein lipid concentrations

Chylomicrons and extremely large VLDL ratios

Phospholipids to total lipids ratio in chylomicrons and extremely large VLDL	%
Cholesterol to total lipids ratio in chylomicrons and extremely large VLDL	%
Cholesteryl esters to total lipids ratio in chylomicrons and extremely large VLDL	%
Free cholesterol to total lipids ratio in chylomicrons and extremely large VLDL	%

Triglycerides to total lipids ratio in chylomicrons and extremely large VLDL	%
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Very large VLDL ratios

Phospholipids to total lipids ratio in very large VLDL	%
Cholesterol to total lipids ratio in very large VLDL	%
Cholesteryl esters to total lipids ratio in very large VLDL	%
Free cholesterol to total lipids ratio in very large VLDL	%
Triglycerides to total lipids ratio in very large VLDL	%

Large VLDL ratios

Phospholipids to total lipids ratio in large VLDL	%
Cholesterol to total lipids ratio in large VLDL	%
Cholesteryl esters to total lipids ratio in large VLDL	%
Free cholesterol to total lipids ratio in large VLDL	%
Triglycerides to total lipids ratio in large VLDL	%

Medium VLDL ratios

Phospholipids to total lipids ratio in medium VLDL	%
Cholesterol to total lipids ratio in medium VLDL	%
Cholesteryl esters to total lipids ratio in medium VLDL	%
Free cholesterol to total lipids ratio in medium VLDL	%
Triglycerides to total lipids ratio in medium VLDL	%

Small VLDL ratios

Phospholipids to total lipids ratio in small VLDL	%
Cholesterol to total lipids ratio in small VLDL	%
Cholesteryl esters to total lipids ratio in small VLDL	%
Free cholesterol to total lipids ratio in small VLDL	%
Triglycerides to total lipids ratio in small VLDL	%

Very small VLDL ratios

Phospholipids to total lipids ratio in very small VLDL	%
Cholesterol to total lipids ratio in very small VLDL	%
Cholesteryl esters to total lipids ratio in very small VLDL	%
Free cholesterol to total lipids ratio in very small VLDL	%
Triglycerides to total lipids ratio in very small VLDL	%

IDL ratios

Phospholipids to total lipids ratio in IDL	%
Cholesterol to total lipids ratio in IDL	%
Cholesteryl esters to total lipids ratio in IDL	%
Free cholesterol to total lipids ratio in IDL	%
Triglycerides to total lipids ratio in IDL	%

Large LDL ratios

Phospholipids to total lipids ratio in large LDL	%
Cholesterol to total lipids ratio in large LDL	%
Cholesteryl esters to total lipids ratio in large LDL	%
Free cholesterol to total lipids ratio in large LDL	%
Triglycerides to total lipids ratio in large LDL	%

Medium LDL ratios

Phospholipids to total lipids ratio in medium LDL	%
Cholesterol to total lipids ratio in medium LDL	%

Cholesteryl esters to total lipids ratio in medium LDL	%
Free cholesterol to total lipids ratio in medium LDL	%
Triglycerides to total lipids ratio in medium LDL	%

Small LDL ratios

Phospholipids to total lipids ratio in small LDL	%
Cholesterol to total lipids ratio in small LDL	%
Cholesteryl esters to total lipids ratio in small LDL	%
Free cholesterol to total lipids ratio in small LDL	%
Triglycerides to total lipids ratio in small LDL	%

Very large HDL ratios

Phospholipids to total lipids ratio in very large HDL	%
Cholesterol to total lipids ratio in very large HDL	%
Cholesteryl esters to total lipids ratio in very large HDL	%
Free cholesterol to total lipids ratio in very large HDL	%
Triglycerides to total lipids ratio in very large HDL	%

Large HDL ratios

Phospholipids to total lipids ratio in large HDL	%
Cholesterol to total lipids ratio in large HDL	%
Cholesteryl esters to total lipids ratio in large HDL	%
Free cholesterol to total lipids ratio in large HDL	%
Triglycerides to total lipids ratio in large HDL	%

Medium HDL ratios

Phospholipids to total lipids ratio in medium HDL	%
Cholesterol to total lipids ratio in medium HDL	%
Cholesteryl esters to total lipids ratio in medium HDL	%
Free cholesterol to total lipids ratio in medium HDL	%
Triglycerides to total lipids ratio in medium HDL	%

Small HDL ratios

Phospholipids to total lipids ratio in small HDL	%
Cholesterol to total lipids ratio in small HDL	%
Cholesteryl esters to total lipids ratio in small HDL	%
Free cholesterol to total lipids ratio in small HDL	%
Triglycerides to total lipids ratio in small HDL	%

List of urine biomarkers

Available in March 2020

Amino acids

Alanine	mmol/l & ratio to creatinine
Glutamine	mmol/l & ratio to creatinine
Glycine	mmol/l & ratio to creatinine
Histidine	mmol/l & ratio to creatinine
Taurine	mmol/l & ratio to creatinine
Threonine	mmol/l & ratio to creatinine
Tryptophan	mmol/l & ratio to creatinine

Branched-chain amino acids

Isoleucine	mmol/l & ratio to creatinine
Leucine	mmol/l & ratio to creatinine
Valine	mmol/l & ratio to creatinine

Aromatic amino acids

Tyrosine	mmol/l & ratio to creatinine
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Dietary metabolites

2-Furoylglycine	mmol/l & ratio to creatinine
3-Methylhistidine	mmol/l & ratio to creatinine
Arabinose	mmol/l & ratio to creatinine
Ethanol	mmol/l & ratio to creatinine
HPPHA	mmol/l & ratio to creatinine
Mannitol	mmol/l & ratio to creatinine
Proline betaine ¹	mmol/l & ratio to creatinine
Propylene glycol ¹	mmol/l & ratio to creatinine
Quinic acid	mmol/l & ratio to creatinine
Sucrose	mmol/l & ratio to creatinine
Trans-aconitate	mmol/l & ratio to creatinine
Xanthosine	mmol/l & ratio to creatinine
Xylose	mmol/l & ratio to creatinine

Fluid balance

Creatinine	mmol/l
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Glycolysis related metabolites

cis-Aconitate	mmol/l & ratio to creatinine
Citrate	mmol/l & ratio to creatinine
Glucose	mmol/l & ratio to creatinine
Lactate	mmol/l & ratio to creatinine

Ketone bodies

Acetate	mmol/l & ratio to creatinine
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Microbial metabolism

3-Hydroxyhippurate	mmol/l & ratio to creatinine
Dimethylamine	mmol/l & ratio to creatinine
Trimethylamine N-oxide	mmol/l & ratio to creatinine

Miscellaneous

2-Hydroxyisobutyrate	mmol/l & ratio to creatinine
3-Hydroxyisobutyrate	mmol/l & ratio to creatinine
3-Hydroxyisovalerate	mmol/l & ratio to creatinine
4-Deoxyerythronic acid	mmol/l & ratio to creatinine
4-Deoxythreonate	mmol/l & ratio to creatinine
4-Hydroxyhippurate	mmol/l & ratio to creatinine
Allantoin	mmol/l & ratio to creatinine
Creatine	mmol/l & ratio to creatinine
Ethanolamine	mmol/l & ratio to creatinine
Formate	mmol/l & ratio to creatinine
Glycolate	mmol/l & ratio to creatinine
Hypoxanthine	mmol/l & ratio to creatinine
Indoxyl Sulfate	mmol/l & ratio to creatinine
Pseudouridine	mmol/l & ratio to creatinine
Pyroglutamate	mmol/l & ratio to creatinine
Urea	mmol/l & ratio to creatinine

Nicotinate and nicotinamide metabolism

1-Methylnicotinamide	mmol/l & ratio to creatinine
Trigonelline	mmol/l & ratio to creatinine

Phenylalanine metabolism

Hippurate	mmol/l & ratio to creatinine
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Pyrimidine metabolism

3-Aminoisobutyrate	mmol/l & ratio to creatinine
Uracil	mmol/l & ratio to creatinine

¹ Preliminary biomarkers

List of cord blood biomarkers

Cholesterol		Phosphatidylcholines	mmol/l	Ketone bodies		Small LDL (average size 18.7 nm)	
Total cholesterol	mmol/l	Sphingomyelins	mmol/l	3-Hydroxybutyrate	mmol/l	Concentration of small LDL particles	mmol/l
Total cholesterol minus HDL-C	mmol/l			Acetate	mmol/l	Total lipids in small LDL	mmol/l
Remnant cholesterol (non-HDL, non-LDL -cholesterol)	mmol/l	Apolipoproteins		Acetoacetate	mmol/l		
VLDL cholesterol	mmol/l	Apolipoprotein B	g/l	Acetone	mmol/l	Very large HDL (average size 14.3 nm)	
Clinical LDL cholesterol	mmol/l	Apolipoprotein A1	g/l			Concentration of very large HDL particles	mmol/l
LDL cholesterol	mmol/l	Ratio of apolipoprotein B to apolipoprotein A1	ratio	Fluid balance		Total lipids in very large HDL	mmol/l
HDL cholesterol	mmol/l			Creatinine	mmol/l		
		Fatty acids		Albumin	signal area	Large HDL (average size 12.1 nm)	
Triglycerides		Total fatty acids	mmol/l			Concentration of large HDL particles	mmol/l
Total triglycerides	mmol/l	Degree of unsaturation	degree	Inflammation		Total lipids in very large HDL	mmol/l
Triglycerides in VLDL	mmol/l	Omega-3 fatty acids	mmol/l	Glycoprotein acetyls (GlycA)	mmol/l		
Triglycerides in LDL	mmol/l	Omega-6 fatty acids	mmol/l			Medium HDL (average size 10.9 nm)	
Triglycerides in HDL	mmol/l	Polyunsaturated fatty acids	mmol/l	Lipoprotein subclasses		Concentration of medium HDL particles	mmol/l
		Monounsaturated fatty acids	mmol/l	Chylomicrons and extremely large VLDL (particle diameters from 75 nm upwards)		Total lipids in medium HDL	mmol/l
Phospholipids		Saturated fatty acids	mmol/l	Concentration of chylomicrons and extremely large VLDL particles	mmol/l	Small HDL (average size of 8.7 nm)	
Total phospholipids in lipoprotein particles	mmol/l	Linoleic acid	mmol/l	Total lipids in chylomicrons and extremely large VLDL	mmol/l	Concentration of small HDL particle	mmol/l
Phospholipids in VLDL	mmol/l	Docosahexaenoic acid	mmol/l			Total lipids in small HDL	mmol/l
Phospholipids in LDL	mmol/l			Very large VLDL (average size 64 nm)			
Phospholipids in HDL	mmol/l	Fatty acid ratios		Concentration of very large VLDL particles	mmol/l		
		Ratio of omega-3 fatty acids to total fatty acids	%	Total lipids in very large VLDL	mmol/l		
Cholesteryl esters		Ratio of omega-6 fatty acids to total fatty acids	%			Large VLDL (average size 53.6 nm)	
Total esterified cholesterol	mmol/l	Ratio of polyunsaturated fatty acids to total fatty acids	%	Concentration of large VLDL particles	mmol/l	Total lipids in large VLDL	mmol/l
Cholesteryl esters in VLDL	mmol/l	Ratio of monounsaturated fatty acids to total fatty acids	%				
Cholesteryl esters in LDL	mmol/l	Ratio of saturated fatty acids to total fatty acids	%	Medium VLDL (average size 44.5 nm)			
Cholesteryl esters in HDL	mmol/l	Ratio of linoleic acid to total fatty acids	%	Concentration of medium VLDL particles	mmol/l		
		Ratio of docosahexaenoic acid to total fatty acids	%	Total lipids in medium VLDL	mmol/l		
Free cholesterol		Ratio of polyunsaturated fatty acids to monounsaturated fatty acids	ratio	Small VLDL (average size 36.8 nm)			
Total free cholesterol	mmol/l	Ratio of omega-6 fatty acids to omega-3 fatty acids	ratio	Concentration of small VLDL particles	mmol/l		
Free cholesterol in VLDL	mmol/l			Total lipids in small VLDL	mmol/l		
Free cholesterol in LDL	mmol/l	Amino acids		Very small VLDL (average size 31.3 nm)			
Free cholesterol in HDL	mmol/l	Alanine	mmol/l	Concentration of very small VLDL particles	mmol/l		
		Glutamine	mmol/l	Total lipids in very small VLDL	mmol/l		
Total lipids		Glycine	mmol/l			IDL (average size 28.6 nm)	
Total lipids in lipoprotein particles	mmol/l	Histidine	mmol/l	Large LDL (average size 25.5 nm)		Concentration of IDL particles	mmol/l
Total lipids in VLDL	mmol/l			Concentration of large LDL particles	mmol/l	Total lipids in IDL	mmol/l
Total lipids in LDL	mmol/l	Branched-chain amino acids		Total lipids in large LDL	mmol/l		
Total lipids in HDL	mmol/l	Total concentration of branched-chain amino acids (leucine + isoleucine + valine)	mmol/l			Medium LDL (average size 23 nm)	
		Isoleucine	mmol/l	Small VLDL (average size 36.8 nm)		Concentration of medium LDL particles	mmol/l
Lipoprotein particle concentrations		Leucine	mmol/l	Concentration of small VLDL particles	mmol/l	Total lipids in medium LDL	mmol/l
Total concentration of lipoprotein particles	mmol/l	Valine	mmol/l	Total lipids in small VLDL	mmol/l		
Concentration of VLDL particles	mmol/l			Very large HDL (average size 14.3 nm)			
Concentration of LDL particles	mmol/l	Aromatic amino acids		Concentration of very large HDL particles	mmol/l		
Concentration of HDL particles	mmol/l	Phenylalanine	mmol/l	Total lipids in very large HDL	mmol/l		
		Tyrosine	mmol/l			Large HDL (average size 12.1 nm)	
Lipoprotein particle sizes				Medium HDL (average size 10.9 nm)		Concentration of large HDL particles	mmol/l
Average diameter for VLDL particles	nm	Glycolysis related metabolites		Total lipids in very large HDL	mmol/l	Total lipids in large HDL	mmol/l
Average diameter for LDL particles	nm	Glucose	mmol/l				
Average diameter for HDL particles	nm	Lactate	mmol/l	Small HDL (average size of 8.7 nm)			
		Pyruvate	mmol/l	Concentration of small HDL particle	mmol/l		
Other lipids		Citrate ³	mmol/l	Total lipids in small HDL	mmol/l		
Phosphoglycerides	mmol/l	Glycerol ²	mmol/l				
Ratio of triglycerides to phosphoglycerides	ratio						
Total cholines	mmol/l						

All listed biomarkers are available for Serum and Heparin plasma samples.

Biomarkers marked with ² are not available for EDTA plasma samples.

Biomarkers marked with ³ are not available for Citrate plasma samples.

List of CSF biomarkers

Amino acids

Alanine	mmol/l
Glutamine	mmol/l
Histidine	mmol/l
Lysine	mmol/l

Branched-chain amino acids

Isoleucine	mmol/l
Leucine	mmol/l
Valine	mmol/l

Aromatic amino acids

Phenylalanine	mmol/l
Tyrosine	mmol/l

Dietary metabolites

Ascorbate	mmol/l
Fructose	mmol/l

Glycolysis related metabolites

Glucose	mmol/l
Lactate	mmol/l
Pyruvate	mmol/l
Citrate	mmol/l
Myo-Inositol	mmol/l

Ketone bodies

3-Hydroxybutyrate	mmol/l
Acetate	mmol/l

Fluid balance

Creatinine	mmol/l
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Miscellaneous

2-Hydroxybutyrate	mmol/l
2-Hydroxyisovalerate	mmol/l
2-Ketoisovalerate	mmol/l
3-Hydroxyisobutyrate	mmol/l
3-Hydroxyisovalerate	mmol/l
Creatine	mmol/l
Formate	mmol/l
Mannose	mmol/l
Urea ⁴	mmol/l

ABOUT US

Nightingale Health Ltd. provides a NMR (Nuclear Magnetic Resonance) based metabolomics technology, supplying biomarker analysis services for human blood, urine, CSF and umbilical cord blood samples. By measuring biomarkers from multiple pathways in a single experiment, Nightingale equips public health researchers with comprehensive insights into the effects of lifestyle factors and future disease risk, accelerating future breakthroughs in precision medicine. In the long term, the company plans to fully integrate its services into clinical practice, helping to empower patients to follow-up on their own well-being and take proactive steps to stay healthy.

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