

# Dried blood analysis + Nightingale Kit CoreMetabolomics biomarker list

# **Biomarkers**

Cholesterol		Total lipids		Fatty acids (continued)	
Total cholesterol	mmol/L	Total lipids in lipoprotein particles	mmol/L	Linoleic acid	mmol/L
Total cholesterol minus HDL-C	mmol/L	Total lipids in VLDL	mmol/L	Docosahexaenoic acid	mmol/L
Remnant cholesterol (non-HDL,	mmol/L	Total lipids in LDL	mmol/L		
non-LDL -cholesterol)		Total lipids in HDL	mmol/L	Fatty acid ratios	
VLDL cholesterol	mmol/L			Ratio of omega-3 fatty acids to total % fatty acids	
Clinical LDL cholesterol	mmol/L	Lipoprotein particle concentrations		Ratio of omega-6 fatty acids to total %	al %
LDL cholesterol	mmol/L	Total concentration of lipoprotein particles	mmol/L	fatty acids	
HDL cholesterol	mmol/L			Ratio of polyunsaturated fatty acid total fatty acids	s to %
Triglycerides		Concentration of LDL particles	mmol/L	Ratio of monounsaturated fatty ac	ids to %
Total triglycerides	mmol/L	Concentration of HDL particles	mmol/L	total fatty acids	
Triglycerides in VLDL	mmol/L	Other lipids		Ratio of saturated fatty acids to total % fatty acids	
Triglycerides in LDL	mmol/L	Phosphoglycerides	mmol/L	Ratio of linoleic acid to total fatty a	icids %
Triglycerides in HDL	mmol/L	Ratio of triglycerides to	ratio	Ratio of docosahexaenoic acid to t	
Phospholipids		phosphoglycerides		fatty acids	
Total phospholipids in lipoprotein	mmol/L	Total cholines	mmol/L	Ratio of polyunsaturated fatty acids ratio monounsaturated fatty acids	
particles		Phosphatidylcholines	mmol/L	Ratio of omega-6 fatty acids to	ratio
Phospholipids in VLDL	mmol/L	Sphingomyelins	mmol/L	omega-3 fatty acids	
Phospholipids in LDL	mmol/L	Apolipoproteins		Australia	
Phospholipids in HDL	holipids in HDL mmol/L ^ A		g/L	Amino acids	1.0
Cholesteryl esters		Apolipoprotein A1	g/L	Alanine	mmol/L
Total esterified cholesterol	mmol/L	Ratio of apolipoprotein B to	ratio	Branched-chain amino acids	
Cholesteryl esters in VLDL	mmol/L	apolipoprotein A1		Total concentration of branched-	mmol/L
Cholesteryl esters in LDL	mmol/L	Fathy saids		chain amino acids (leucine +	
Cholesteryl esters in HDL	mmol/L	Fatty acids		isoleucine + valine)	
		Total fatty acids	mmol/L	Isoleucine	mmol/L
Free cholesterol		Degree of unsaturation	degree	Leucine	mmol/L
Total free cholesterol	mmol/L	Omega-3 fatty acids	mmol/L	Valine	mmol/L
Free cholesterol in VLDL	mmol/L	Omega-6 fatty acids	mmol/L	Aromatic amino acids	
Free cholesterol in LDL	mmol/L	Polyunsaturated fatty acids	mmol/L	Tyrosine mmol/L	
Free cholesterol in HDL	mmol/L	Monounsaturated fatty acids	mmol/L	.,	
		Saturated fatty acids	mmol/L		

All listed biomarkers are available for dried blood samples collected from Nightingale Health's self-collection kit. For Research Use Only. Not for use in diagnostic procedures.

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Ketone bodies

3-Hydroxybutyrate mmol/L

Fluid balance

Creatinine µmol/L

Inflammation

Glycoprotein acetyls mmol/L

# Lipoprotein subclasses

#### Very Large VLDL (average diameter 64 nm)

Cholesterol in very large VLDL mmol/L
Total lipids in very large VLDL mmol/L
Triglycerides in very large VLDL mmol/L

## Large VLDL (average diameter 53.6 nm)

Cholesterol in large VLDL mmol/L

Total lipids in large VLDL mmol/L

Triglycerides in large VLDL mmol/L

#### Medium VLDL (average diameter 44.5 nm)

Cholesterol in medium VLDL mmol/L

Total lipids in medium VLDL mmol/L

Triglycerides in medium VLDL mmol/L

# Small VLDL (average diameter 36.8 nm)

Cholesterol in small VLDL mmol/L

Total lipids in small VLDL mmol/L

Triglycerides in small VLDL mmol/L

# Very small VLDL (average diameter 31.3 nm)

Cholesterol in very small VLDL mmol/L

Total lipids in very small VLDL mmol/L

Triglycerides in very small VLDL mmol/L

#### IDL (average diameter 28.6 nm)

Cholesterol in IDL mmol/L
Total lipids in IDL mmol/L
Triglycerides in IDL mmol/L

## Large LDL (average diameter 25.5 nm)

Cholesterol in large LDL mmol/L

Total lipids in large LDL mmol/L

Triglycerides in large LDL mmol/L

## Medium LDL (average diameter 23 nm)

Cholesterol in medium LDL mmol/L

Total lipids in medium LDL mmol/L

Triglycerides in medium LDL mmol/L

#### Small LDL (average diameter 18.7 nm)

Cholesterol in small LDL mmol/L

Total lipids in small LDL mmol/L

Triglycerides in small LDL mmol/L

#### Very large HDL (average diameter 14.3 nm)

Cholesterol in very large HDL mmol/L
Total lipids in very large HDL mmol/L
Triglycerides in very large HDL mmol/L

#### Large HDL (average diameter 12.1 nm)

Cholesterol in large HDL mmol/L
Total lipids in large HDL mmol/L
Triglycerides in large HDL mmol/L

#### Medium HDL (average diameter 10.9 nm)

Cholesterol in medium HDL mmol/L

Total lipids in medium HDL mmol/L

Triglycerides in medium HDL mmol/L

## Small HDL (average diameter 8.7 nm)

Cholesterol in small HDL mmol/L
Total lipids in small HDL mmol/L
Triglycerides in small HDL mmol/L

# Glycated hemoglobin

# Available as an additional service

Glycated hemoglobin (HbA1c) mmol/mol

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