## **SERVICE DELIVERABLES FOR BLOOD ANALYSIS**

## Research use only

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.

Name	Unit	Name	Unit
Cholesterol		Phosphatidylcholines	mmol/l
Total cholesterol	mmol/l	Sphingomyelins	mmol/l
Total cholesterol minus HDL-C	mmol/l	Apolipoproteins	
Remnant cholesterol (non-HDL, non-LDL -cholesterol) VLDL cholesterol	mmol/l mmol/l	Apolipoprotein B	g/l
Clinical LDL cholesterol	mmol/l	Apolipoprotein A1	g/l
LDL cholesterol	mmol/l	Ratio of apolipoprotein B to apolipoprotein A1	ratio
HDL cholesterol	mmol/l	Fatty acids	
Triglycerides		Total fatty acids	mmol/l
Total triglycoridos	mmol/l	Degree of unsaturation	degree
Total triglycerides Triglycerides in VLDL	mmol/l mmol/l	Omega-3 fatty acids	mmol/l
Triglycerides in VEDL  Triglycerides in LDL	mmol/l	Omega-6 fatty acids	mmol/l
Triglycerides in HDL	mmol/l	Polyunsaturated fatty acids	mmol/l
riigiyoondoo iirriib E	1111101/1	Monounsaturated fatty acids	mmol/l
Phospholipids		Saturated fatty acids	mmol/l
Total phospholipids in lipoprotein particles	mmol/l	Linoleic acid	mmol/l
Phospholipids in VLDL	mmol/l	Docosahexaenoic acid	mmol/l
Phospholipids in LDL	mmol/l	Fatty acid ratios	
Phospholipids in HDL	mmol/l	,	
		Ratio of omega-3 fatty acids to total fatty acids	%
Cholesteryl esters		Ratio of omega-6 fatty acids to total fatty acids	%
Total esterified cholesterol	mmol/l	Ratio of polyunsaturated fatty acids to total fatty acids	%
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	%
Cholesteryl esters in HDL	mmol/l	Ratio of linoleic acid to total fatty acids	% %
For a districtional		Ratio of docosahexaenoic acid to total fatty acids Ratio of polyunsaturated fatty acids to monounsaturated fatty aci	
Free cholesterol		Ratio of omega-6 fatty acids to omega-3 fatty acids	ratio
Total free cholesterol	mmol/l	realis of officea strategy dollars to officea strategy dollars	Tatio
Free cholesterol in VLDL	mmol/l	Amino acids	
Free cholesterol in LDL	mmol/l	Alanine	mmol/l
Free cholesterol in HDL	mmol/l	Glutamine	mmol/l
Total lipids		Glycine	mmol/l
Total lipius		Histidine	mmol/l
Total lipids in lipoprotein particles	mmol/l		
Total lipids in VLDL	mmol/l	Branched-chain amino acids	
Total lipids in LDL	mmol/l	Total concentration of branched-chain amino acids (leucine +	mmol/l
Total lipids in HDL	mmol/l	isoleucine + valine)	
Lipoprotein particle concentrations		Isoleucine	mmol/l
	.,,	Leucine	mmol/l
Total concentration of lipoprotein particles	mmol/l	Valine	mmol/l
Concentration of VLDL particles	mmol/l	Aromatic amino acids	
Concentration of LDL particles	mmol/l mmol/l	Alomatic annie acido	
Concentration of HDL particles	IIIIIIOI/I	Phenylalanine	mmol/l
Lipoprotein particle sizes		Tyrosine	mmol/l
Average diameter for VLDL particles	nm	Glycolysis related metabolites	
Average diameter for LDL particles	nm	Glucose	mmol/l
Average diameter for HDL particles	nm	Lactate	mmol/l
Other lipids		Pyruvate	mmol/l
·		Citrate **	mmol/l
Phosphoglycerides	mmol/l	Glycerol *	mmol/l
Ratio of triglycerides to phosphoglycerides	ratio		
Total cholines	mmol/l		

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Name	Unit	Name	Unit
Ketone bodies		Cholesterol in very small VLDL	mmol/l
	1.0	Cholesteryl esters in very small VLDL	mmol/l
3-Hydroxybutyrate	mmol/l	Free cholesterol in very small VLDL	mmol/l
Acetate Acetoacetate	mmol/l	Triglycerides in very small VLDL	mmol/l
Acetone	mmol/l mmol/l	IDL (average diameter 28.6 nm)	
Fluid balance		Concentration of IDL particles	mmol/l
Creatinine	mmol/l	Total lipids in IDL	mmol/l
Albumin	g/l	Phospholipids in IDL	mmol/l
AMATTINI	9/1	Cholesterol in IDL	mmol/l
Inflammation		Cholesteryl esters in IDL	mmol/l
Glycoprotein acetyls	mmol/l	Free cholesterol in IDL Triglycerides in IDL	mmol/l mmol/l
Lipoprotein subclasses		Large LDL (average diameter 25.5 nm)	1111101/1
Chylomicrons and extremely large VLDL			
(particle diameters from 75 nm upwards)		Concentration of large LDL particles	mmol/l
(particle diameters from 70 mil apwards)		Total lipids in large LDL Phospholipids in large LDL	mmol/l
Concentration of chylomicrons and extremely large VLDL particles	mmol/l	Cholesterol in large LDL	mmol/l mmol/l
Total lipids in chylomicrons and extremely large VLDL	mmol/l	Cholesteryl esters in large LDL	mmol/l
Phospholipids in chylomicrons and extremely large VLDL	mmol/l	Free cholesterol in large LDL	mmol/l
Cholesterol in chylomicrons and extremely large VLDL	mmol/l	Triglycerides in large LDL	mmol/l
Cholesteryl esters in chylomicrons and extremely large VLDL	mmol/l	mgryoondoo iir largo LDL	1111101/1
Free cholesterol in chylomicrons and extremely large VLDL Triglycerides in chylomicrons and extremely large VLDL	mmol/l mmol/l	Medium LDL (average diameter 23 nm)	
Vamalanna VI DI (avanana diamatan CA mm)		Concentration of medium LDL particles	mmol/l
Very large VLDL (average diameter 64 nm)		Total lipids in medium LDL	mmol/l
Concentration of very large VLDL particles	mmol/l	Phospholipids in medium LDL	mmol/l
Total lipids in very large VLDL	mmol/l	Cholesterol in medium LDL	mmol/l
Phospholipids in very large VLDL	mmol/l	Cholesteryl esters in medium LDL	mmol/l
Cholesterol in very large VLDL	mmol/l	Free cholesterol in medium LDL	mmol/l
Cholesteryl esters in very large VLDL	mmol/l	Triglycerides in medium LDL	mmol/l
Free cholesterol in very large VLDL	mmol/l	Small LDL (average diameter 18.7 nm)	
Triglycerides in very large VLDL	mmol/l	Concentration of small LDL particles	mmal/l
Large VLDL (average diameter 53.6 nm)		Concentration of small LDL particles Total lipids in small LDL	mmol/l mmol/l
(		Phospholipids in small LDL	mmol/l
Concentration of large VLDL particles	mmol/l	Cholesterol in small LDL	mmol/l
Total lipids in large VLDL	mmol/l	Cholesteryl esters in small LDL	mmol/l
Phospholipids in large VLDL	mmol/l	Free cholesterol in small LDL	mmol/l
Cholesterol in large VLDL	mmol/l	Triglycerides in small LDL	mmol/l
Cholesteryl esters in large VLDL	mmol/l	•	
Free cholesterol in large VLDL Triglycerides in large VLDL	mmol/l mmol/l	Very large HDL (average diameter 14.3 nm)	
Medium VLDL (average diameter 44.5 nm)		Concentration of very large HDL particles	mmol/l
medium VEDE (average diameter 44.5 mm)		Total lipids in very large HDL	mmol/l
Concentration of medium VLDL particles	mmol/l	Phospholipids in very large HDL Cholesterol in very large HDL	mmol/l mmol/l
Total lipids in medium VLDL	mmol/l	Cholesteryl esters in very large HDL	mmol/l
Phospholipids in medium VLDL	mmol/l	Free cholesterol in very large HDL	mmol/l
Cholesterol in medium VLDL	mmol/l	Triglycerides in very large HDL	mmol/l
Cholesteryl esters in medium VLDL	mmol/l	g.y.co.nacc iii very iai.go v.22	
Free cholesterol in medium VLDL Triglycerides in medium VLDL	mmol/l mmol/l	Large HDL (average diameter 12.1 nm)	
Small VLDL (average diameter 36.8 nm)		Concentration of large HDL particles Total lipids in large HDL	mmol/l mmol/l
, -		Phospholipids in large HDL	mmol/l
Concentration of small VLDL particles	mmol/l	Cholesterol in large HDL	mmol/l
Total lipids in small VLDL	mmol/l	Cholesteryl esters in large HDL	mmol/l
Phospholipids in small VLDL	mmol/l	Free cholesterol in large HDL	mmol/l
Cholesterol in small VLDL	mmol/l	Triglycerides in large HDL	mmol/l
Cholesteryl esters in small VLDL Free cholesterol in small VLDL	mmol/l mmol/l		
Triglycerides in small VLDL	mmol/l	Medium HDL (average diameter 10.9 nm)	
g., soridos in omaii vede		Concentration of medium HDL particles	mmol/l
Very small VLDL (average diameter 31.3 nm)		Total lipids in medium HDL	mmol/l
Concentration of very small VLDL particles	mmol/l	Phospholipids in medium HDL	mmol/l
Total lipids in very small VLDL	mmol/l	Cholesterol in medium HDL	mmol/l
Phospholipids in very small VLDL	mmol/l	Cholesteryl esters in medium HDL	mmol/l
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Service Deliverables for Blood Analysis

Effective from 6 March 2023

Name	Unit	Nama	Unit
Name	Unit	Name	
Free cholesterol in medium HDL Triglycerides in medium HDL	mmol/l mmol/l	Triglycerides to total lipids ratio in IDL	%
Small HDL (average diameter 8.7 nm)		Large LDL ratios	
		Phospholipids to total lipids ratio in large LDL	%
Concentration of small HDL particles Total lipids in small HDL	mmol/l mmol/l	Cholesterol to total lipids ratio in large LDL Cholesteryl esters to total lipids ratio in large LDL	% %
Phospholipids in small HDL	mmol/l	Free cholesterol to total lipids ratio in large LDL	%
Cholesterol in small HDL	mmol/l	Triglycerides to total lipids ratio in large LDL	%
Cholesteryl esters in small HDL	mmol/l	Medium LDL ratios	
Free cholesterol in small HDL	mmol/l	Medium LDL ratios	
Triglycerides in small HDL	mmol/l	Phospholipids to total lipids ratio in medium LDL	%
Relative lipoprotein lipid concentrations		Cholesterol to total lipids ratio in medium LDL Cholesteryl esters to total lipids ratio in medium LDL	% %
Chylomicrons and extremely large VLDL ratios		Free cholesterol to total lipids ratio in medium LDL	%
· ·	0/	Triglycerides to total lipids ratio in medium LDL	%
Phospholipids to total lipids ratio in chylomicrons and extremely large VLDL	%	Small LDL ratios	
Cholesterol to total lipids ratio in chylomicrons	%		
and extremely large VLDL	,,	Phospholipids to total lipids ratio in small LDL	%
Cholesteryl esters to total lipids ratio in chylomicrons	%	Cholesterol to total lipids ratio in small LDL	%
and extremely large VLDL		Cholesteryl esters to total lipids ratio in small LDL Free cholesterol to total lipids ratio in small LDL	% %
Free cholesterol to total lipids ratio in chylomicrons	%	Triglycerides to total lipids ratio in small LDL	%
and extremely large VLDL Triglycerides to total lipids ratio in chylomicrons	%		
and extremely large VLDL	70	Very large HDL ratios	
		Phospholipids to total lipids ratio in very large HDL	%
Very large VLDL ratios		Cholesterol to total lipids ratio in very large HDL	%
Phospholipids to total lipids ratio in very large VLDL	%	Cholesteryl esters to total lipids ratio in very large HDL Free cholesterol to total lipids ratio in very large HDL	% %
Cholesterol to total lipids ratio in very large VLDL	%	Triglycerides to total lipids ratio in very large HDL	% %
Cholesteryl esters to total lipids ratio in very large VLDL	%		70
Free cholesterol to total lipids ratio in very large VLDL Triglycerides to total lipids ratio in very large VLDL	% %	Large HDL ratios	
	70	Phospholipids to total lipids ratio in large HDL	%
Large VLDL ratios		Cholesterol to total lipids ratio in large HDL	%
Phospholipids to total lipids ratio in large VLDL	%	Cholesteryl esters to total lipids ratio in large HDL Free cholesterol to total lipids ratio in large HDL	% %
Cholesterol to total lipids ratio in large VLDL	%	Triglycerides to total lipids ratio in large HDL	% %
Cholesteryl esters to total lipids ratio in large VLDL	%		70
Free cholesterol to total lipids ratio in large VLDL Triglycerides to total lipids ratio in large VLDL	% %	Medium HDL ratios	
	70	Phospholipids to total lipids ratio in medium HDL	%
Medium VLDL ratios		Cholesterol to total lipids ratio in medium HDL	%
Phospholipids to total lipids ratio in medium VLDL	%	Cholesteryl esters to total lipids ratio in medium HDL	%
Cholesterol to total lipids ratio in medium VLDL	%	Free cholesterol to total lipids ratio in medium HDL Triglycerides to total lipids ratio in medium HDL	% %
Cholesteryl esters to total lipids ratio in medium VLDL	%		70
Free cholesterol to total lipids ratio in medium VLDL Triglycerides to total lipids ratio in medium VLDL	% %	Small HDL ratios	
•	/0	Phospholipids to total lipids ratio in small HDL	%
Small VLDL ratios		Cholesterol to total lipids ratio in small HDL	%
Phospholipids to total lipids ratio in small VLDL	%	Cholesteryl esters to total lipids ratio in small HDL	%
Cholesterol to total lipids ratio in small VLDL	%	Free cholesterol to total lipids ratio in small HDL Triglycerides to total lipids ratio in small HDL	% %
Cholesteryl esters to total lipids ratio in small VLDL	%	Trigiyeendes to total lipids fatio in small HDE	/0
Free cholesterol to total lipids ratio in small VLDL	%		
Triglycerides to total lipids ratio in small VLDL	%	If Nightingale is not able to deliver the Service Deliverables du	
Very small VLDL ratios		of Nightingale's Service to analyse the data with more the	
Phospholipids to total lipids ratio in very small VLDL	%	metabolic measures missing for a Sample, there will be no chrespective Sample.	large for the
Cholesterol to total lipids ratio in very small VLDL	%	respective dample.	
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	% %		
	/0		
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	70		

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