SERVICE DELIVERABLES FOR BLOOD ANALYSIS

Research use only

All listed biomarkers are available for Serum and Heparin plasma samples. Biomarkers marked with $\mbox{^{\star}}$ 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)	mmol/l	Apolipoprotein B	g/l
VLDL cholesterol	mmol/l	Apolipoprotein A1	g/l
Clinical LDL cholesterol LDL cholesterol	mmol/l mmol/l	Ratio of apolipoprotein B to apolipoprotein A1	ratio
HDL cholesterol	mmol/l	Fatty acids	
Trighyogrides		•	
Triglycerides		Total fatty acids Degree of unsaturation	mmol/l
Total triglycerides	mmol/l	Omega-3 fatty acids	degree mmol/l
Triglycerides in VLDL	mmol/l	Omega-6 fatty acids	mmol/l
Triglycerides in LDL	mmol/l	Polyunsaturated fatty acids	mmol/l
Triglycerides in HDL	mmol/l	Monounsaturated fatty acids	mmol/l
Phospholipids		Saturated fatty acids	mmol/l
Total phaankalinida in linewystain neutialaa		Linoleic acid	mmol/l
Total phospholipids in lipoprotein particles	mmol/l mmol/l	Docosahexaenoic acid	mmol/l
Phospholipids in VLDL Phospholipids in LDL	mmol/l	Fatty acid ratios	
Phospholipids in HDL	mmol/l	ratty acid ratios	
1 Hoopholipido III II B E	1111101/1	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 Ratio of linoleic acid to total fatty acids	% %
Cholesteryl esters in HDL	mmol/l	Ratio of docosahexaenoic acid to total fatty acids	% %
Free cholesterol		Ratio of polyunsaturated fatty acids to monounsaturated fatty aci	
Total free ab electoral		Ratio of omega-6 fatty acids to omega-3 fatty acids	ratio
Total free cholesterol Free cholesterol in VLDL	mmol/l mmol/l	Amino acids	
Free cholesterol in LDL	mmol/l		
Free cholesterol in HDL	mmol/l	Alanine	mmol/l
		Glutamine Glycine	mmol/l mmol/l
Total lipids		Histidine	mmol/l
Total lipids in lipoprotein particles	mmol/l	Hottonic	11111101/1
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
	1.0	Leucine	mmol/l
Total concentration of lipoprotein particles	mmol/l	Valine	mmol/l
Concentration of VLDL particles Concentration of LDL particles	mmol/l mmol/l	Aromatic amino acids	
Concentration of HDL particles	mmol/l	B	1.0
Lipoprotein particle sizes		Phenylalanine Tyrosine	mmol/l mmol/l
Lipoprotein particle sizes		•	
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
Phoenhoolycoridos	mmal/l	Citrate **	mmol/l
Phosphoglycerides Ratio of triglycerides to phosphoglycerides	mmol/l ratio	Glycerol *	mmol/l
Total cholines	mmol/l		

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Name	Unit	Name	Unit
Ketone bodies		Cholesterol in very small VLDL	mmol/l
3-Hydroxybutyrate	mmol/l	Cholesteryl esters in very small VLDL Free cholesterol in very small VLDL	mmol/l mmol/l
Acetagestate	mmol/l	Triglycerides in very small VLDL	mmol/l
Acetoacetate 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 Phospholipids in IDL	mmol/l
Albumin	g/l	Cholesterol in IDL	mmol/l 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)	
Chylomicrons and extremely large VLDL		Concentration of large LDL particles	mmol/l
(particle diameters from 75 nm upwards)		Total lipids in large LDL	mmol/l
Concentration of chylomicrons and extremely large VLDL particles	mmol/l	Phospholipids in large LDL	mmol/l
Total lipids in chylomicrons and extremely large VLDL	mmol/l	Cholesterol in large LDL	mmol/l
Phospholipids in chylomicrons and extremely large VLDL	mmol/l	Cholesteryl esters in large LDL Free cholesterol in large LDL	mmol/l 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	Thighy centres in large 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)	
, , ,		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 Triglycerides in medium LDL	mmol/l mmol/l
Cholesteryl esters in very large VLDL	mmol/l	Trigiycerides in medidin LDL	1111101/1
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	mmol/l
Large VLDL (average diameter 53.6 nm)		Total lipids in small LDL	mmol/l
Concentration of large VLDL particles	mmol/l	Phospholipids in small LDL	mmol/l
Total lipids in large VLDL	mmol/l	Cholesterol in small LDL	mmol/l
Phospholipids in large VLDL	mmol/l	Cholesteryl esters in small LDL	mmol/l
Cholesterol in large VLDL	mmol/l	Free cholesterol in small LDL	mmol/l
Cholesteryl esters in large VLDL	mmol/l	Triglycerides in small LDL	mmol/l
Free cholesterol in large VLDL	mmol/l	Very large HDL (average diameter 14.3 nm)	
Triglycerides in large VLDL	mmol/l	Concentration of very large HDL particles	mmol/l
Medium VLDL (average diameter 44.5 nm)		Total lipids in very large HDL	mmol/l
One and trading of an adjust VI DI an adjust		Phospholipids in very large HDL	mmol/l
Concentration of medium VLDL particles Total lipids in medium VLDL	mmol/l mmol/l	Cholesterol in very large HDL	mmol/l
Phospholipids in medium VLDL	mmol/l	Cholesteryl esters in very large HDL	mmol/l
Cholesterol in medium VLDL	mmol/l	Free cholesterol in very large HDL	mmol/l
Cholesteryl esters in medium VLDL	mmol/l	Triglycerides in very large HDL	mmol/l
Free cholesterol in medium VLDL	mmol/l	Large HDL (average diameter 12.1 nm)	
Triglycerides in medium VLDL	mmol/l	Concentration of large HDL particles	mmol/l
Small VLDL (average diameter 36.8 nm)		Total lipids in large HDL	mmol/l
Concentration of small VLDL particles	mmol/l	Phospholipids in large HDL	mmol/l
Total lipids in small VLDL	mmol/l	Cholesterol in large HDL	mmol/l
Phospholipids in small VLDL	mmol/l	Cholesteryl esters in large HDL	mmol/l
Cholesterol in small VLDL	mmol/l	Free cholesterol in large HDL	mmol/l
Cholesteryl esters in small VLDL	mmol/l	Triglycerides in large HDL	mmol/l
Free cholesterol in small VLDL	mmol/l	Medium HDL (average diameter 10.9 nm)	
Triglycerides in small VLDL	mmol/l	Concentration of medium HDL particles	mmcl/l
Very small VLDL (average diameter 31.3 nm)		Concentration of medium HDL particles Total lipids in medium HDL	mmol/l 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

Name	Unit	Name	Unit
Free cholesterol in medium HDL	mmol/l	Triglycerides to total lipids ratio in IDL	%
Triglycerides in medium HDL	mmol/l	Large LDL ratios	
Small HDL (average diameter 8.7 nm)		Phospholipids to total lipids ratio in large LDL	%
Concentration of small HDL particles	mmol/l	Cholesterol to total lipids ratio in large LDL	%
Total lipids in small HDL	mmol/l	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	g.,	
Free cholesterol in small HDL	mmol/l	Medium LDL ratios	
Triglycerides in small HDL	mmol/l	Phospholipids to total lipids ratio in medium LDL	0/
g., coacc ca		Cholesterol to total lipids ratio in medium LDL	%
Relative lipoprotein lipid concentrations		•	% %
Chylomicrons and extremely large VLDL ratios		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	%
Phospholipids to total lipids ratio in chylomicrons	%	Small I DI vation	
and extremely large VLDL Cholesterol to total lipids ratio in chylomicrons	%	Small LDL ratios	
and extremely large VLDL	70	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 chylomicrons	%	Free cholesterol to total lipids ratio in small LDL	%
and extremely large VLDL	70	Triglycerides to total lipids ratio in small LDL	%
Triglycerides to total lipids ratio in chylomicrons	%	Very large HDL ratios	
and extremely large VLDL		, ,	
		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	%
Cholesterol to total lipids ratio in very large VLDL	%	Free cholesterol to total lipids ratio in very large HDL	%
Cholesteryl esters to total lipids ratio in very large VLDL	%	Triglycerides to total lipids ratio in very large HDL	%
Free cholesterol to total lipids ratio in very large VLDL	%	Large HDL ratios	
Triglycerides to total lipids ratio in very large VLDL	%		
Large VLDL ratios		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	%
Cholesterol to total lipids ratio in large VLDL	%	Free cholesterol to total lipids ratio in large HDL	%
Cholesteryl esters to total lipids ratio in large VLDL	%	Triglycerides to total lipids ratio in large HDL	%
Free cholesterol to total lipids ratio in large VLDL	%	Medium HDL ratios	
Triglycerides to total lipids ratio in large VLDL	%		
Madium VI DI ration		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	%
Cholesteryl esters to total lipids ratio in medium VLDL	%	Triglycerides to total lipids ratio in medium HDL	%
Free cholesterol to total lipids ratio in medium VLDL	%	Small HDL ratios	
Triglycerides to total lipids ratio in medium VLDL	%		
Small VI DI vatica		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	%
Cholesteryl esters to total lipids ratio in small VLDL	%	Triglycerides to total lipids ratio in small HDL	%
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 due	
Very small VLDL ratios		of Nightingale's Service to analyse the data with more the metabolic measures missing for a Sample, there will be no characteristics.	
Phospholipids to total lipids ratio in very small VLDL	%	respective Sample.	go 101 tilo
Cholesterol to total lipids ratio in very small VLDL	%	. separatio Gampio.	
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			
	0/		
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	% %		
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