SERVICE DELIVERABLES FOR BLOOD ANALYSIS

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		Branched-chain amino acids	
Total cholesterol VLDL cholesterol	mmol/l mmol/l	Isoleucine Leucine	mmol/l
Remnant cholesterol (non-HDL, non-LDL -cholesterol)	mmol/l	Valine	mmol/l
LDL cholesterol	mmol/l	Valino	111110111
HDL cholesterol	mmol/l	Aromatic amino acids	
HDL2 cholesterol	mmol/l	Phenylalanine	mmol/l
HDL3 cholesterol	mmol/l	Tyrosine	mmol/l
Total esterified cholesterol	mmol/l		
Total free cholesterol	mmol/l	Glycolysis related metabolites	
Glycerides and phospholipids		Glucose	mmol/l
Total triglycerides	mmol/l	Lactate	mmol/l
Triglycerides in VLDL	mmol/l	Pyruvate *	mmol/l
Triglycerides in LDL	mmol/l	Citrate **	mmol/l
Triglycerides in HDL	mmol/l	Glycerol *	mmol/l
Phosphoglycerides	mmol/l	Ketone bodies	
Ratio of triglycerides to phosphoglycerides	ratio	Acetate	mmol/l
Total cholines	mmol/l	Acetoacetate	mmol/l
Phosphatidylcholines	mmol/l	Beta-hydroxybutyrate	mmol/l
Sphingomyelins	mmol/l		1111101/1
Apolipoproteins		Fluid balance	
Apolipoprotein B	g/l	Creatinine	mmol/l
Apolipoprotein A1	g/l	Albumin sig	gnal area
Ratio of apolipoprotein B to apolipoprotein A1	ratio	Inflammation	
Fatty acids		Glycoprotein acetyls	mmol/l
Total fatty acids	mmol/l	Lipoprotein subclasses	
Degree of unsaturation	degree		
Omega-3 fatty acids	mmol/l	Chylomicrons and extremely large VLDL	
Omega-6 fatty acids	mmol/l	(particle diameters from 75 nm upwards)	
Polyunsaturated fatty acids	mmol/l	Concentration of chylomicrons and extremely large VLDL particles	s mol/l
Monounsaturated fatty acids	mmol/l	Total lipids in chylomicrons and extremely large VLDL	mmol/l
Saturated fatty acids Docosahexaenoic acid	mmol/l	Phospholipids in chylomicrons and extremely large VLDL	mmol/l
Linoleic acid	mmol/l mmol/l	Cholesterol in chylomicrons and extremely large VLDL	mmol/l
Elifoleic acid	1111101/1	Cholesteryl esters in chylomicrons and extremely large VLDL	mmol/l
Fatty acid ratios		Free cholesterol in chylomicrons and extremely large VLDL	mmol/l
Ratio of omega-3 fatty acids to total fatty acids	%	Triglycerides in chylomicrons and extremely large VLDL	mmol/l
Ratio of omega-6 fatty acids to total fatty acids	% %	Very large VLDL (average diameter 64 nm)	
Ratio of polyunsaturated fatty acids to total fatty acids	%	,	
Ratio of monounsaturated fatty acids to total fatty acids	%	Concentration of very large VLDL particles	mol/l
Ratio of saturated fatty acids to total fatty acids	%	Total lipids in very large VLDL	mmol/l
Ratio of docosahexaenoic acid to total fatty acids	%	Phospholipids in very large VLDL	mmol/l
Ratio of linoleic acid to total fatty acids	%	Cholesterol in very large VLDL	mmol/l
Austria astala		Cholesteryl esters in very large VLDL Free cholesterol in very large VLDL	mmol/l mmol/l
Amino acids		Triglycerides in very large VLDL	mmol/l
Alanine	mmol/l		
Glutamine	mmol/l		
Glycine *	mmol/l		
Histidine	mmol/l		

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Name	Unit	Name	Unit
Large VLDL (average diameter 53.6 nm)		Small LDL (average diameter 18.7 nm)	
Concentration of large VLDL particles Total lipids in large VLDL Phospholipids in large VLDL Cholesterol in large VLDL Cholesteryl esters in large VLDL Free cholesterol in large VLDL Triglycerides in large VLDL	mol/l mmol/l mmol/l mmol/l mmol/l mmol/l	Concentration of small LDL particles Total lipids in small LDL Phospholipids in small LDL Cholesterol in small LDL Cholesteryl esters in small LDL Free cholesterol in small LDL Triglycerides in small LDL	mol/l mmol/l mmol/l mmol/l mmol/l mmol/l
Medium VLDL (average diameter 44.5 nm)		Very large HDL (average diameter 14.3 nm)	
Concentration of medium VLDL particles Total lipids in medium VLDL Phospholipids in medium VLDL Cholesterol in medium VLDL Cholesteryl esters in medium VLDL Free cholesterol in medium VLDL Triglycerides in medium VLDL	mol/l mmol/l mmol/l mmol/l mmol/l mmol/l	Concentration of very large HDL particles Total lipids in very large HDL Phospholipids in very large HDL Cholesterol in very large HDL Cholesteryl esters in very large HDL Free cholesterol in very large HDL Triglycerides in very large HDL	mol/l mmol/l mmol/l mmol/l mmol/l mmol/l
Small VLDL (average diameter 36.8 nm)		Large HDL (average diameter 12.1 nm)	
Concentration of small VLDL particles Total lipids in small VLDL Phospholipids in small VLDL Cholesterol in small VLDL Cholesteryl esters in small VLDL Free cholesterol in small VLDL Triglycerides in small VLDL	mol/l mmol/l mmol/l mmol/l mmol/l mmol/l	Concentration of large HDL particles Total lipids in large HDL Phospholipids in large HDL Cholesterol in large HDL Cholesteryl esters in large HDL Free cholesterol in large HDL Triglycerides in large HDL	mol/l mmol/l mmol/l mmol/l mmol/l
Very small VLDL (average diameter 31.3 nm)		Medium HDL (average diameter 10.9 nm)	
Concentration of very small VLDL particles Total lipids in very small VLDL Phospholipids in very small VLDL Cholesterol in very small VLDL Cholesteryl esters in very small VLDL Free cholesterol in very small VLDL Triglycerides in very small VLDL IDL (average diameter 28.6 nm) Concentration of IDL particles Total lipids in IDL Phospholipids in IDL	mol/l mmol/l mmol/l mmol/l mmol/l mmol/l mmol/l	Concentration of medium HDL particles Total lipids in medium HDL Phospholipids in medium HDL Cholesterol in medium HDL Cholesterol in medium HDL Free cholesterol in medium HDL Triglycerides in medium HDL Small HDL (average diameter 8.7 nm) Concentration of small HDL particles Total lipids in small HDL Phospholipids in small HDL	mol/l mmol/l mmol/l mmol/l mmol/l mmol/l mmol/l
Cholesterol in IDL Cholesteryl esters in IDL Free cholesterol in IDL Triglycerides in IDL	mmol/l mmol/l mmol/l mmol/l	Cholesterol in small HDL Cholesteryl esters in small HDL Free cholesterol in small HDL Triglycerides in small HDL	mmol/l mmol/l mmol/l mmol/l
Large LDL (average diameter 25.5 nm)	IIIIIOI/I	Lipoprotein particle sizes	mmoi/i
Concentration of large LDL particles Total lipids in large LDL Phospholipids in large LDL Cholesterol in large LDL Cholesteryl esters in large LDL Free cholesterol in large LDL	mol/l mmol/l mmol/l mmol/l mmol/l	Average diameter for VLDL particles Average diameter for LDL particles Average diameter for HDL particles Relative lipoprotein lipid concentrations	nm nm nm
Triglycerides in large LDL	mmol/l	Chylomicrons and extremely large VLDL ratios	6/
Medium LDL (average diameter 23 nm) Concentration of medium LDL particles	mol/l	Phospholipids to total lipids ratio in VLDL chylomicrons and extremely large Cholesterol to total lipids ratio in	%
Total lipids in medium LDL Phospholipids in medium LDL	mmol/l	chylomicrons and extremely large VLDL Cholesteryl esters to total lipids ratio in	%
Cholesterol in medium LDL Cholesteryl esters in medium LDL	mmol/l mmol/l mmol/l	chylomicrons and extremely large VLDL Free cholesterol to total lipids ratio in chylomicrons and extremely large VLDL	%
Free cholesterol in medium LDL Triglycerides in medium LDL	mmol/l mmol/l	Triglycerides to total lipids ratio in chylomicrons and extremely large VLDL	%

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Service Deliverables for Blood Analysis

Appendix 2

Name	Unit	Name	Unit
Very large VLDL ratios		Very large HDL 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	% % %	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 VLDL ratios Phospholipids to total lipids ratio in large VLDL	%	Name	Unit
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	% % %	Large HDL ratios Phospholipids to total lipids ratio in large HDL Chalacter total lipids ratio in large HDL	%
Triglycerides to total lipids ratio in large VLDL	%	Cholesterol to total lipids ratio in large HDL Cholesteryl esters to total lipids ratio in large HDL	% %
Medium VLDL ratios		Free cholesterol to total lipids ratio in large HDL Triglycerides to total lipids ratio in large HDL	% %
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	% %	Medium HDL ratios	,,
Free cholesterol to total lipids ratio in medium VLDL Triglycerides to total lipids ratio in medium VLDL	% % %	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	% % %
Small VLDL ratios		Free cholesterol to total lipids ratio in medium HDL	%
Phospholipids to total lipids ratio in small VLDL Cholesterol to total lipids ratio in small VLDL	% %	Triglycerides to total lipids ratio in medium HDL Small HDL ratios	%
Cholesteryl esters to total lipids ratio in small VLDL Free cholesterol to total lipids ratio in small VLDL	%	Phospholipids to total lipids ratio in small HDL	%
Triglycerides to total lipids ratio in small VLDL	% %	Cholesterol to total lipids ratio in small HDL Cholesteryl esters to total lipids ratio in small HDL	%
Very small VLDL ratios		Free cholesterol to total lipids ratio in small HDL	% %
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	% % % %	Triglycerides to total lipids ratio in small HDL If Nightingale is not able to deliver the Service Deliverables du of Nightingale's Service to analyse the data with more the metabolic measures missing for a Sample, there will be no ch	ne to inability
IDL ratios		respective Sample.	argo for the
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	% % % %		

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