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
Cholesterol	
Total cholesterol Total cholesterol minus HDL-C Remnant cholesterol (non-HDL, non-LDL -cholesterol) VLDL cholesterol Clinical LDL cholesterol LDL cholesterol HDL cholesterol	mmol/l mmol/l mmol/l mmol/l mmol/l mmol/l
Triglycerides	
Total triglycerides Triglycerides in VLDL Triglycerides in LDL Triglycerides in HDL	mmol/l mmol/l mmol/l mmol/l
Phospholipids	
Total phospholipids in lipoprotein particles Phospholipids in VLDL Phospholipids in LDL Phospholipids in HDL	mmol/l mmol/l mmol/l mmol/l
Cholesteryl esters	
Total esterified cholesterol Cholesteryl esters in VLDL Cholesteryl esters in LDL Cholesteryl esters in HDL	mmol/l mmol/l mmol/l mmol/l
Free cholesterol	
Total free cholesterol Free cholesterol in VLDL Free cholesterol in LDL Free cholesterol in HDL	mmol/l mmol/l mmol/l mmol/l
Total lipids	
Total lipids in lipoprotein particles Total lipids in VLDL Total lipids in LDL Total lipids in HDL	mmol/l mmol/l mmol/l mmol/l
Lipoprotein particle concentrations	
Total concentration of lipoprotein particles Concentration of VLDL particles Concentration of LDL particles Concentration of HDL particles	mmol/l mmol/l mmol/l mmol/l
Lipoprotein particle sizes	
Average diameter for VLDL particles Average diameter for LDL particles Average diameter for HDL particles	nm nm nm
Other lipids	
Phosphoglycerides Ratio of triglycerides to phosphoglycerides Total cholines	mmol/l ratio mmol/l

Name	Unit
Phosphatidylcholines Sphingomyelins	mmol/l mmol/l
Apolipoproteins	
Apolipoprotein B Apolipoprotein A1 Ratio of apolipoprotein B to apolipoprotein A1	g/l g/l ratio
Fatty acids	
Total fatty acids Degree of unsaturation Omega-3 fatty acids Omega-6 fatty acids Polyunsaturated fatty acids Monounsaturated fatty acids Saturated fatty acids Linoleic acid Docosahexaenoic acid	mmol/l degree mmol/l mmol/l mmol/l mmol/l mmol/l
Fatty acid ratios	
Ratio of omega-3 fatty acids to total fatty acids Ratio of omega-6 fatty acids to total fatty acids Ratio of polyunsaturated fatty acids to total fatty acids Ratio of monounsaturated fatty acids to total fatty acids Ratio of saturated fatty acids to total fatty acids Ratio of saturated fatty acids to total fatty acids Ratio of linoleic acid to total fatty acids Ratio of docosahexaenoic acid to total fatty acids Ratio of polyunsaturated fatty acids to monounsaturated fatty acid Ratio of omega-6 fatty acids to omega-3 fatty acids	% % % % % ds ratio ratio
Amino acids	
Alanine Glutamine Glycine Histidine	mmol/l mmol/l mmol/l mmol/l
Branched-chain amino acids	
Total concentration of branched-chain amino acids (leucine + isoleucine + valine) Isoleucine Leucine	mmol/l mmol/l mmol/l
Valine Aromatic amino acids	mmol/l
Phenylalanine	mmol/l
Tyrosine	mmol/l
Glycolysis related metabolites	
Glucose Lactate Pyruvate Citrate ** Glycerol *	mmol/l mmol/l mmol/l mmol/l mmol/l

Name	Unit
Ketone bodies	
3-Hydroxybutyrate Acetate Acetoacetate Acetone	mmol/l mmol/l mmol/l mmol/l
Fluid balance	
Creatinine Albumin	mmol/l g/l
Inflammation	
Glycoprotein acetyls	mmol/l
Lipoprotein subclasses	
Chylomicrons and extremely large VLDL (particle diameters from 75 nm upwards)	
Concentration of chylomicrons and extremely large VLDL particles Total lipids in chylomicrons and extremely large VLDL Phospholipids in chylomicrons and extremely large VLDL Cholesterol in chylomicrons and extremely large VLDL Cholesteryl esters in chylomicrons and extremely large VLDL Free cholesterol in chylomicrons and extremely large VLDL Triglycerides in chylomicrons and extremely large VLDL	mmol/l mmol/l mmol/l mmol/l mmol/l mmol/l
Very large VLDL (average diameter 64 nm)	
Concentration of very large VLDL particles Total lipids in very large VLDL Phospholipids in very large VLDL Cholesterol in very large VLDL Cholesteryl esters in very large VLDL Free cholesterol in very large VLDL Triglycerides in very large VLDL	mmol/l mmol/l mmol/l mmol/l mmol/l mmol/l
Large VLDL (average diameter 53.6 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	mmol/l mmol/l mmol/l mmol/l mmol/l mmol/l
Medium VLDL (average diameter 44.5 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	mmol/l mmol/l mmol/l mmol/l mmol/l mmol/l
Small VLDL (average diameter 36.8 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	mmol/l mmol/l mmol/l mmol/l mmol/l mmol/l
Very small VLDL (average diameter 31.3 nm)	
Concentration of very small VLDL particles Total lipids in very small VLDL Phospholipids in very small VLDL	mmol/l mmol/l mmol/l

Appendix 2 Service Deliverables for Blood Analysis

Name	Unit
Cholesterol in very small VLDL	mmol/l
Cholesteryl esters in very small VLDL	mmol/l
Free cholesterol in very small VLDL	mmol/l
Triglycerides in very small VLDL	mmol/l
IDL (average diameter 28.6 nm)	
Concentration of IDL particles	mmol/l
Total lipids in IDL	mmol/l
Phospholipids in IDL	mmol/l
Cholesterol in IDL Cholesteryl esters in IDL	mmol/l mmol/l
Free cholesterol in IDL	mmol/l
Triglycerides in IDL	mmol/l
Large LDL (average diameter 25.5 nm)	
Concentration of large LDL particles	mmol/l
Total lipids in large LDL	mmol/l
Phospholipids in large LDL	mmol/l
Cholesterol in large LDL	mmol/l
Cholesteryl esters in large LDL	mmol/l
Free cholesterol in large LDL	mmol/l mmol/l
Triglycerides in large LDL	mmoi/i
Medium LDL (average diameter 23 nm)	
Concentration of medium LDL particles	mmol/l
Total lipids in medium LDL	mmol/l
Phospholipids in medium LDL Cholesterol in medium LDL	mmol/l mmol/l
Cholesteryl esters in medium LDL	mmol/l
Free cholesterol in medium LDL	mmol/l
Triglycerides in medium LDL	mmol/l
Small LDL (average diameter 18.7 nm)	
Small LDL (average diameter 18.7 nm) Concentration of small LDL particles	mmol/l
	mmol/l mmol/l
Concentration of small LDL particles Total lipids in small LDL Phospholipids in small LDL	mmol/l mmol/l
Concentration of small LDL particles Total lipids in small LDL Phospholipids in small LDL Cholesterol in small LDL	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	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	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	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 Very large HDL (average diameter 14.3 nm)	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 Very large HDL (average diameter 14.3 nm) Concentration of very large HDL particles	mmol/I mmol/I mmol/I mmol/I mmol/I mmol/I
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 Very large HDL (average diameter 14.3 nm) Concentration of very large HDL particles Total lipids in very large HDL	mmol/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 Very large HDL (average diameter 14.3 nm) Concentration of very large HDL particles	mmol/l mmol/l mmol/l mmol/l mmol/l mmol/l mmol/l mmol/l
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Concentration of small LDL particles Total lipids in small LDL Phospholipids in small LDL Cholesterol in small LDL Cholesterol in small LDL Free cholesterol in small LDL Triglycerides in small LDL Very large HDL (average diameter 14.3 nm) Concentration of very large HDL particles Total lipids in very large HDL Phospholipids in very large HDL Cholesterol in very large HDL Cholesterol in very large HDL Cholesterol in very large HDL Free cholesterol in very large HDL Free cholesterol in very large HDL	mmol/l mmol/l mmol/l mmol/l mmol/l mmol/l mmol/l mmol/l mmol/l mmol/l mmol/l
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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 Very large HDL (average diameter 14.3 nm) Concentration of very large HDL particles Total lipids in very large HDL Cholesterol in very large HDL Cholesterol in very large HDL Cholesterol in very large HDL Cholesterol in very large HDL Free cholesterol in very large HDL Triglycerides in very large HDL Triglycerides in very large HDL Concentration of large HDL particles Total lipids in large HDL Cholesterol in large HDL Triglycerides in large HDL Cholesterol in large HDL Cholesterol in large HDL Cholesterol in large HDL Cholesterol in large HDL Triglycerides in large HDL Cholesterol in l	mmol/l mmol/l mmol/l mmol/l mmol/l mmol/l mmol/l mmol/l mmol/l mmol/l mmol/l mmol/l mmol/l mmol/l mmol/l mmol/l mmol/l
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Name	Unit
Free cholesterol in medium HDL Triglycerides in medium HDL	mmol/l mmol/l
Small HDL (average diameter 8.7 nm)	
Concentration of small HDL particles Total lipids in small HDL Phospholipids in small HDL 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 mmol/l 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	%

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	%

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Name	Unit
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	% % %

If Nightingale is not able to deliver the Service Deliverables due to inability of Nightingale's Service to analyse the data with more than 20% of metabolic measures missing for a Sample, there will be no charge for the respective Sample.