SERVICE DELIVERABLES FOR CORD 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		
Remnant cholesterol (non-HDL, non-LDL -cholesterol)	mmol/l	Apolipoproteins	
VLDL cholesterol	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		
Triglycerides		Fatty acids	
rrigiyeerides		Total fatty acids	mmol/l
Total triglycerides	mmol/l	Degree of unsaturation	degree
Triglycerides in VLDL	mmol/l	Omega-3 fatty acids	mmol/l
Triglycerides in LDL	mmol/l	Omega-6 fatty acids	mmol/l
Triglycerides in HDL	mmol/l	Polyunsaturated fatty acids	mmol/l
Phospholipids		Monounsaturated fatty acids	mmol/l
Filospilolipius		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 Phospholipids in HDL	mmol/l mmol/l	Fatty acid ratios	
1 Hospitolipids III HDE	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	%
Cholesteryl esters in HDL	mmol/l	Ratio of linoleic acid to total fatty acids	%
Cholodoly) Coloro III 1 ID 2	1111101/1	Ratio of docosahexaenoic acid to total fatty acids	%
Free cholesterol		Ratio of polyunsaturated fatty acids to monounsaturated fatty acid	ds %
Total free cholesterol	mmol/l	Ratio of omega-6 fatty acids to omega-3 fatty acids	%
Free cholesterol in VLDL	mmol/l	Amino acids	
Free cholesterol in LDL	mmol/l	Amino acids	
Free cholesterol in HDL	mmol/l	Alanine	mmol/l
		Glutamine	mmol/l
Total lipids		Glycine	mmol/l
Total lipids in lipoprotein particles	mmol/l	Histidine	mmol/l
Total lipids in VLDL	mmol/l	Branched-chain amino acids	
Total lipids in LDL	mmol/l	Dianonou onam ammo doldo	
Total lipids in HDL	mmol/l	Total concentration of branched-chain amino acids (leucine +	mmol/l
		Isoleucine + valine)	
Lipoprotein particle concentrations		Isoleucine	mmol/l
Total concentration of lipoprotein particles	mmol/l	Leucine	mmol/l
Concentration of VLDL particles	mmol/l	Valine	mmol/l
Concentration of LDL particles	mmol/l	Aromatic amino acids	
Concentration of HDL particles	mmol/l		
Lipoprotein particle sizes		Phenylalanine Tyrosine	mmol/l mmol/l
		Tyrosine	1111101/1
Average diameter for VLDL particles	nm	Glycolysis related metabolites	
Average diameter for LDL particles	nm		
Average diameter for HDL particles	nm	Glucose	mmol/l
Other lipids		Lactate	mmol/l
·		Pyruvate	mmol/l
Phosphoglycerides	mmol/l	Citrate **	mmol/l
Ratio of triglycerides to phosphoglycerides	ratio	Glycerol *	mmol/l
Total cholines	mmol/l		

Name	Unit	Name	Unit
Ketone bodies		Medium HDL (average diameter 10.9 nm)	
3-Hydroxybutyrate Acetate	mmol/l mmol/l	·	mmol/l mmol/l
Acetoacetate Acetone	mmol/l mmol/l	Small HDL (average diameter 8.7 nm)	
Fluid balance		,	mmol/l
Creatinine	mmol/l	Total lipids in small HDL	mmol/l
Albumin	g/l	If Nightingale is not able to deliver the Service Deliverables due to in	inability
Inflammation Chaptratain agentals	mmol/l	of Nightingale's Service to analyse the data with more than 2 metabolic measures missing for a Sample, there will be no charge	
Glycoprotein acetyls Lipoprotein subclasses	TTTTTOI/T	respective Sample.	
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	mmol/l mmol/l		
Very large VLDL (average diameter 64 nm)			
Concentration of very large VLDL particles Total lipids in very large VLDL	mmol/l mmol/l		
Large VLDL (average diameter 53.6 nm)			
Concentration of large VLDL particles Total lipids in large VLDL	mmol/l mmol/l		
Medium VLDL (average diameter 44.5 nm)			
Concentration of medium VLDL particles Total lipids in medium VLDL	mmol/l mmol/l		
Small VLDL (average diameter 36.8 nm)			
Concentration of small VLDL particles Total lipids in small VLDL	mmol/l mmol/l		
Very small VLDL (average diameter 31.3 nm)			
Concentration of very small VLDL particles Total lipids in very small VLDL	mmol/l mmol/l		
IDL (average diameter 28.6 nm)			
Concentration of IDL particles Total lipids in IDL	mmol/l mmol/l		
Large LDL (average diameter 25.5 nm)			
Concentration of large LDL particles Total lipids in large LDL	mmol/l mmol/l		
Medium LDL (average diameter 23 nm)			
Concentration of medium LDL particles Total lipids in medium LDL	mmol/l mmol/l		
Small LDL (average diameter 18.7 nm)			
Concentration of small LDL particles Total lipids in small LDL	mmol/l mmol/l		
Very large HDL (average diameter 14.3 nm)			
Concentration of very large HDL particles Total lipids in very large HDL	mmol/l mmol/l		
Large HDL (average diameter 12.1 nm)			
Concentration of large HDL particles Total lipids in large HDL	mmol/l mmol/l		