Effective from 17 February 2020

## 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	mmal/l
Total cholesterol	mmol/l	Sphingomyelins	mmol/l 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	Fatty acids	
Triglycerides		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
1 Hospitolipius		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 FIDE	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	%
·		Ratio of docosahexaenoic acid to total fatty acids	%
Free cholesterol		Ratio of polyunsaturated fatty acids to monounsaturated fatty acid	
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	Allillo doldo	
Free cholesterol in HDL	mmol/l	Alanine	mmol/l
Total liuida		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		
Total lipids in HDL	mmol/l	Total concentration of branched-chain amino acids (leucine +	mmol/l
Lipoprotein particle concentrations		Isoleucine + valine)	mmal/l
Elpoprotonii partiolo conconti attorio		Isoleucine Leucine	mmol/l mmol/l
Total concentration of lipoprotein particles	mmol/l	Valine	mmol/l
Concentration of VLDL particles	mmol/l	Valific	1111101/1
Concentration of LDL particles	mmol/l	Aromatic amino acids	
Concentration of HDL particles	mmol/l	Phenylalanine	mmol/l
Lipoprotein particle sizes		Tyrosine	mmol/l
Average diameter for VLDL particles	nm		
Average diameter for LDL particles	nm	Glycolysis related metabolites	
Average diameter for HDL particles	nm	Glucose	mmol/l
Other linide		Lactate	mmol/l
Other lipids		Pyruvate	mmol/l
Phosphoglycerides	mmol/l	Citrate **	mmol/l
Ratio of triglycerides to phosphoglycerides	ratio	Glycerol *	mmol/l
Total cholines	mmol/l		

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Appendix 7

Medium HDL (average diameter 10.9 nm)   3-Hydroxybutyrate	
Acetate mmol/l Acetoacetate mmol/l Acetone mmol/l  Fluid balance Creatinine mmol/l Albumin g/l  Inflammation Total lipids in medium HDL mmol/l  Small HDL (average diameter 8.7 nm)  Concentration of small HDL particles mmol/l  Total lipids in small HDL particles mmol/l  If Nightingale is not able to deliver the Service Deliverables due to inability	
Acetone mmol/l Small HDL (average diameter 8.7 nm)  Fluid balance Creatinine mmol/l Albumin g/l  Inflammation Small HDL (average diameter 8.7 nm)  Concentration of small HDL particles mmol/l mmol/l mmol/l mmol/l g/l  If Nightingale is not able to deliver the Service Deliverables due to inability	
Total lipids in small HDL mmol/l Creatinine mmol/l Albumin g/l Inflammation If Nightingale is not able to deliver the Service Deliverables due to inability	
Creatinine mmol/l Albumin g/l  Inflammation If Nightingale is not able to deliver the Service Deliverables due to inability	
Inflammation If Nightingale is not able to deliver the Service Deliverables due to inability	
Glycoprotein acetyls metabolic measures missing for a Sample, there will be no charge for the	
respective Sample.  Lipoprotein subclasses	
Chylomicrons and extremely large VLDL (particle diameters from 75 nm upwards)	
Concentration of chylomicrons and extremely large VLDL particles mmol/l Total lipids in chylomicrons and extremely large VLDL mmol/l	
Very large VLDL (average diameter 64 nm)	
Concentration of very large VLDL particles mmol/l Total lipids in very large VLDL mmol/l	
Large VLDL (average diameter 53.6 nm)	
Concentration of large VLDL particles mmol/l Total lipids in large VLDL mmol/l	
Medium VLDL (average diameter 44.5 nm)	
Concentration of medium VLDL particles mmol/l Total lipids in medium VLDL mmol/l	
Small VLDL (average diameter 36.8 nm)	
Concentration of small VLDL particles mmol/l Total lipids in small VLDL mmol/l	
Very small VLDL (average diameter 31.3 nm)	
Concentration of very small VLDL particles mmol/l Total lipids in very small VLDL mmol/l	
IDL (average diameter 28.6 nm)	
Concentration of IDL particles mmol/l Total lipids 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	
Medium LDL (average diameter 23 nm)	
Concentration of medium LDL particles mmol/l Total lipids in medium LDL mmol/l	
Small LDL (average diameter 18.7 nm)	
Concentration of small LDL particles mmol/l Total lipids in small LDL mmol/l	
Very large HDL (average diameter 14.3 nm)	
Concentration of very large HDL particles mmol/l Total lipids in very large HDL mmol/l	
Large HDL (average diameter 12.1 nm)	
Concentration of large HDL particles mmol/l Total lipids in large HDL mmol/l	

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