Effective from 6 March 2023

LB-0498 version 2

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 Remnant cholesterol (non-HDL, non-LDL -cholesterol)	mmol/l 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	
		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
		Saturated fatty acids Linoleic acid	mmol/l mmol/l
Total phospholipids in lipoprotein particles	mmol/l	Docosahexaenoic acid	mmol/l
Phospholipids in VLDL	mmol/l	Docosanexaciole acid	1111101/1
Phospholipids in LDL Phospholipids in HDL	mmol/l mmol/l	Fatty acid ratios	
Filospilolipias III FIDE	IIIIIO//I	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	mmal/l	Ratio of polyunsaturated fatty acids to total fatty acids	%
	mmol/l mmol/l	Ratio of monounsaturated fatty acids to total fatty acids	%
Cholesteryl esters in VLDL 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	%
Officiality resters in Fibe	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	Austria	
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	Dianonea-onam ammo aolas	
Total lipids in HDL	mmol/l	Total concentration of branched-chain amino acids (leucine +	mmol/l
l in annatain mantiala a annantuationa		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	Di III	1.0
Lipoprotein particle sizes		Phenylalanine Tyrosine	mmol/l mmol/l
		,	
Average diameter for VLDL particles	nm	Glycolysis related metabolites	
Average diameter for LDL particles Average diameter for HDL particles	nm		
Average diameter for TIDE particles	nm	Glucose	mmol/l
Other lipids		Lactate	mmol/l
Phoenhoolycoridos	mmol/l	Pyruvate Citrate **	mmol/l mmol/l
Phosphoglycerides Ratio of triglycerides to phosphoglycerides	mmol/l ratio	Glycerol *	mmol/l
Total cholines	mmol/l	Giyodioi	1111101/1
i otai onomines	1111101/1		

Name	Unit	Name	Unit
Ketone bodies		Medium HDL (average diameter 10.9 nm)	
3-Hydroxybutyrate Acetate	mmol/l mmol/l	Concentration of medium HDL particles Total lipids in medium HDL	mmol/l mmol/l
Acetoacetate Acetone	mmol/l mmol/l	Small HDL (average diameter 8.7 nm)	
Fluid balance		Concentration of small HDL particles Total lipids in small HDL	mmol/l mmol/l
Creatinine	mmol/l	Total lipids III stitali TIDE	1111101/1
Albumin Inflammation	g/l	If Nightingale is not able to deliver the Service Deliverables due to	
Glycoprotein acetyls	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	
Lipoprotein subclasses	111110111	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		