SERVICE DELIVERABLES FOR CORD 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		Isoleucine	mmol/l
Total cholesterol	mmol/l	Leucine	mmol/l
VLDL cholesterol	mmol/l	Valine	mmol/l
Remnant cholesterol (non-HDL, non-LDL -cholesterol)	mmol/l	Aromatic amino acids	
LDL cholesterol	mmol/l		
HDL cholesterol	mmol/l	Phenylalanine	mmol/l
HDL2 cholesterol	mmol/l	Tyrosine	mmol/l
HDL3 cholesterol	mmol/l	Glycolysis related metabolites	Unit
Total esterified cholesterol	mmol/l	Glucose	mmol/l
Total free cholesterol	mmol/l	Lastata	mmal/l
Glycerides and phospholipids		Lactate Pyruvate *	mmol/l mmol/l
		Citrate **	mmol/l
Total triglycerides	mmol/l	Glycerol *	mmol/l
Triglycerides in VLDL	mmol/l		
Triglycerides in LDL Triglycerides in HDL	mmol/l	Ketone bodies	
Phosphoglycerides	mmol/l mmol/l	Acetate	mmol/l
Ratio of triglycerides to phosphoglycerides	ratio	Acetoacetate	mmol/l
Total cholines	mmol/l	Beta-hydroxybutyrate	mmol/I
Phosphatidylcholines	mmol/l		
Sphingomyelins	mmol/l	Fluid balance	
A wall a sum fair a		Creatinine	mmol/l
Apolipoproteins		Albumin si	gnal area
Apolipoprotein B	g/l	Inflammation	
Apolipoprotein A1	g/l	imanmaton	
Ratio of apolipoprotein B to apolipoprotein A1	ratio	Glycoprotein acetyls	mmol/l
Fatty acids		Lipoprotein subclasses	
Total fatty acids	mmol/l	Chylomicrons and extremely large VLDL	
Degree of unsaturation	degree	(particle diameters from 75 nm upwards)	
Omega-3 fatty acids	mmol/l	Operation of shadowing and extremely large \(D) and its	
Omega-6 fatty acids	mmol/l	Concentration of chylomicrons and extremely large VLDL particles	
Polyunsaturated fatty acids	mmol/l	Total lipids in chylomicrons and extremely large VLDL	mmol/l
Monounsaturated fatty acids	mmol/l	Very large VLDL (average diameter 64 nm)	
Saturated fatty acids Docosahexaenoic acid	mmol/l	Concentration of very large VLDL particles	mol/l
Linoleic acid	mmol/l	Total lipids in very large VLDL	mmol/l
	mmol/l		1111101/1
Fatty acid ratios		Large VLDL (average diameter 53.6 nm)	
Ratio of omega-3 fatty acids to total fatty acids	%	Concentration of large VLDL particles	mol/l
Ratio of omega-6 fatty acids to total fatty acids	%	Total lipids in large VLDL	mmol/l
Ratio of polyunsaturated fatty acids to total fatty acids	%	Medium VLDL (average diameter 44.5 nm)	
Ratio of monounsaturated fatty acids to total fatty acids	%	(, ,	
Ratio of saturated fatty acids to total fatty acids	%	Concentration of medium VLDL particles	mol/l
Ratio of docosahexaenoic acid to total fatty acids Ratio of linoleic acid to total fatty acids	%	Total lipids in medium VLDL	mmol/l
	%	Small VLDL (average diameter 36.8 nm)	
Amino acids		Concentration of small VLDL particles	mol/l
Alanine	mmol/l	Total lipids in small VLDL	mmol/l
Glutamine	mmol/l		
Glycine *	mmol/l		
Histidine	mmol/l		
Branched-chain amino acids	Unit		

Name	Unit			
Very small VLDL (average diameter 31.3 nm)				
Concentration of very small VLDL particles Total lipids in very small VLDL	mol/l mmol/l			
IDL (average diameter 28.6 nm)				
Concentration of IDL particles Total lipids in IDL	mol/l mmol/l			
Large LDL (average diameter 25.5 nm)				
Concentration of large LDL particles Total lipids in large LDL	mol/l mmol/l			
Medium LDL (average diameter 23 nm)				
Concentration of medium LDL particles Total lipids in medium LDL	mol/l mmol/l			
Small LDL (average diameter 18.7 nm)				
Concentration of small LDL particles Total lipids in small LDL	mol/l mmol/l			
Very large HDL (average diameter 14.3 nm)				
Concentration of very large HDL particles Total lipids in very large HDL	mol/l mmol/l			
Large HDL (average diameter 12.1 nm)				
Concentration of large HDL particles Total lipids in large HDL	mol/l mmol/l			
Medium HDL (average diameter 10.9 nm)				
Concentration of medium HDL particles Total lipids in medium HDL	mol/l mmol/l			
Small HDL (average diameter 8.7 nm)				
Concentration of small HDL particles Total lipids in small HDL	mol/l mmol/l			
Lipoprotein particle sizes				
Average diameter for VLDL particles Average diameter for LDL particles Average diameter for HDL particles	nm nm nm			

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.