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 | 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 |
| Phoenholinida | | Monounsaturated fatty acids | mmol/l |
| Phospholipids | | 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 | |
| | | 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 | 7 | |
| Free cholesterol in HDL | mmol/l | Alanine | mmol/l |
| Total linida | | 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 | T. 1 | |
| Total lipids in HDL | mmol/l | Total concentration of branched-chain amino acids (leucine + | mmol/l |
| Lipoprotein particle concentrations | | Isoleucine + valine) Isoleucine | mmol/l |
| pop.eto particle concentrations | | Leucine | 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 | 0 | |
| Average diameter for LDL particles | nm | Glycolysis related metabolites | |
| Average diameter for HDL particles | nm | Glucose | mmol/l |
| Other lipide | | 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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| 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 Albumin | mmol/l g/l | | mmol/l |
| Inflammation | | If Nightingale is not able to deliver the Service Deliverables due to in of Nightingale's Service to analyse the data with more than 2 | - |
| Glycoprotein acetyls | mmol/l | metabolic measures missing for a Sample, there will be no charge respective Sample. | |
| Lipoprotein subclasses | | respective dample. | |
| 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 | | |

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