

Table 1

| No | Metabolites | Short name | Group |
|----|---|----------------|--------------------------------|
| 1 | Total cholesterol | Total-C | Cholesterol |
| 2 | VLDL cholesterol | VLDL-C | Cholesterol |
| 3 | Remnant cholesterol (non-HDL, non-LDL -cholesterol) | Remnant-C | Cholesterol |
| 4 | LDL cholesterol | LDL-C | Cholesterol |
| 5 | HDL cholesterol | HDL-C | Cholesterol |
| 6 | HDL2 cholesterol | HDL2-C | Cholesterol |
| 7 | HDL3 cholesterol | HDL3-C | Cholesterol |
| 8 | Total esterified cholesterol | Esterified-C | Cholesterol |
| 9 | Total free cholesterol | Free-C | Cholesterol |
| 10 | Total triglycerides | Total-TG | Glycerides and phospholipids |
| 11 | Triglycerides in VLDL | VLDL-TG | Glycerides and phospholipids |
| 12 | Triglycerides in LDL | LDL-TG | Glycerides and phospholipids |
| 13 | Triglycerides in HDL | HDL-TG | Glycerides and phospholipids |
| 14 | Phosphoglycerides | Phosphoglyc | Glycerides and phospholipids |
| 15 | Ratio of triglycerides to phosphoglycerides | TG/PG | Glycerides and phospholipids |
| 16 | Total cholines | Cholines | Glycerides and phospholipids |
| 17 | Phosphatidylcholines | Phosphatidylc | Glycerides and phospholipids |
| 18 | Sphingomyelins | Sphingomyelins | Glycerides and phospholipids |
| 19 | Apolipoprotein B | ApoB | Apolipoproteins |
| 20 | Apolipoprotein A1 | ApoA1 | Apolipoproteins |
| 21 | Total fatty acids | Total-FA | Fatty acids |
| 22 | Degree of unsaturation | Unsaturation | Fatty acids |
| 23 | Omega-3 fatty acids | Omega-3 | Fatty acids |
| 24 | Omega-6 fatty acids | Omega-6 | Fatty acids |
| 25 | Polyunsaturated fatty acids | PUFA | Fatty acids |
| 26 | Monounsaturated fatty acids | MUFA | Fatty acids |
| 27 | Saturated fatty acids | SFA | Fatty acids |
| 28 | Linoleic acid | LA | Fatty acids |
| 29 | Docosahexaenoic acid | DHA | Fatty acids |
| 30 | Alanine | Ala | Amino acids |
| 31 | Glutamine | Gln | Amino acids |
| 32 | Glycine | Gly | Amino acids |
| 33 | Histidine | His | Amino acids |
| 34 | Isoleucine | Ile | Amino acids |
| 35 | Leucine | Leu | Amino acids |
| 36 | Valine | Val | Amino acids |
| 37 | Phenylalanine | Phe | Amino acids |
| 38 | Tyrosine | Tyr | Amino acids |
| 39 | Glucose | Glucose | Glycolysis related metabolites |
| 40 | Lactate | Lactate | Glycolysis related metabolites |
| 41 | Pyruvate | Pyruvate | Glycolysis related metabolites |

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|----|--|--------------|--------------------------------|
| 42 | Citrate | Citrate | Glycolysis related metabolites |
| 43 | Glycerol | Glycerol | Glycolysis related metabolites |
| 44 | Acetate | Acetate | Ketone bodies |
| 45 | Acetoacetate | Acetoacetate | Ketone bodies |
| 46 | Beta-hydroxybutyrate | bOHbutyrate | Ketone bodies |
| 47 | Creatinine | Creatinine | Fluid balance |
| 48 | Albumin | Albumin | Fluid balance |
| 49 | Glycoprotein acetyls | GlycA | Inflammation |
| 50 | Concentration of chylomicrons and extremely large VLDL particles | XXL-VLDL-P | Lipoprotein subclasses |
| 51 | Total lipids in chylomicrons and extremely large VLDL | XXL-VLDL-L | Lipoprotein subclasses |
| 52 | Phospholipids in chylomicrons and extremely large VLDL | XXL-VLDL-PL | Lipoprotein subclasses |
| 53 | Cholesterol in chylomicrons and extremely large VLDL | XXL-VLDL-C | Lipoprotein subclasses |
| 54 | Cholesteryl esters in chylomicrons and extremely large VLDL | XXL-VLDL-CE | Lipoprotein subclasses |
| 55 | Free cholesterol in chylomicrons and extremely large VLDL | XXL-VLDL-FC | Lipoprotein subclasses |
| 56 | Triglycerides in chylomicrons and extremely large VLDL | XXL-VLDL-TG | Lipoprotein subclasses |
| 57 | Concentration of very large VLDL particles | XL-VLDL-P | Lipoprotein subclasses |
| 58 | Total lipids in very large VLDL | XL-VLDL-L | Lipoprotein subclasses |
| 59 | Phospholipids in very large VLDL | XL-VLDL-PL | Lipoprotein subclasses |
| 60 | Cholesterol in very large VLDL | XL-VLDL-C | Lipoprotein subclasses |
| 61 | Cholesteryl esters in very large VLDL | XL-VLDL-CE | Lipoprotein subclasses |
| 62 | Free cholesterol in very large VLDL | XL-VLDL-FC | Lipoprotein subclasses |
| 63 | Triglycerides in very large VLDL | XL-VLDL-TG | Lipoprotein subclasses |
| 64 | Concentration of large VLDL particles | L-VLDL-P | Lipoprotein subclasses |
| 65 | Total lipids in large VLDL | L-VLDL-L | Lipoprotein subclasses |
| 66 | Phospholipids in large VLDL | L-VLDL-PL | Lipoprotein subclasses |
| 67 | Cholesterol in large VLDL | L-VLDL-C | Lipoprotein subclasses |
| 68 | Cholesteryl esters in large VLDL | L-VLDL-CE | Lipoprotein subclasses |
| 69 | Free cholesterol in large VLDL | L-VLDL-FC | Lipoprotein subclasses |
| 70 | Triglycerides in large VLDL | L-VLDL-TG | Lipoprotein subclasses |
| 71 | Concentration of medium VLDL particles | M-VLDL-P | Lipoprotein subclasses |
| 72 | Total lipids in medium VLDL | M-VLDL-L | Lipoprotein subclasses |
| 73 | Phospholipids in medium VLDL | M-VLDL-PL | Lipoprotein subclasses |
| 74 | Cholesterol in medium VLDL | M-VLDL-C | Lipoprotein subclasses |
| 75 | Cholesteryl esters in medium VLDL | M-VLDL-CE | Lipoprotein subclasses |
| 76 | Free cholesterol in medium VLDL | M-VLDL-FC | Lipoprotein subclasses |
| 77 | Triglycerides in medium VLDL | M-VLDL-TG | Lipoprotein subclasses |
| 78 | Concentration of small VLDL particles | S-VLDL-P | Lipoprotein subclasses |
| 79 | Total lipids in small VLDL | S-VLDL-L | Lipoprotein subclasses |
| 80 | Phospholipids in small VLDL | S-VLDL-PL | Lipoprotein subclasses |
| 81 | Cholesterol in small VLDL | S-VLDL-C | Lipoprotein subclasses |
| 82 | Cholesteryl esters in small VLDL | S-VLDL-CE | Lipoprotein subclasses |
| 83 | Free cholesterol in small VLDL | S-VLDL-FC | Lipoprotein subclasses |
| 84 | Triglycerides in small VLDL | S-VLDL-TG | Lipoprotein subclasses |
| 85 | Concentration of very small VLDL particles | XS-VLDL-P | Lipoprotein subclasses |

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|-----|---|------------|------------------------|
| 86 | Total lipids in very small VLDL | XS-VLDL-L | Lipoprotein subclasses |
| 87 | Phospholipids in very small VLDL | XS-VLDL-PL | Lipoprotein subclasses |
| 88 | Cholesterol in very small VLDL | XS-VLDL-C | Lipoprotein subclasses |
| 89 | Cholesteryl esters in very small VLDL | XS-VLDL-CE | Lipoprotein subclasses |
| 90 | Free cholesterol in very small VLDL | XS-VLDL-FC | Lipoprotein subclasses |
| 91 | Triglycerides in very small VLDL | XS-VLDL-TG | Lipoprotein subclasses |
| 92 | Concentration of IDL particles | IDL-P | Lipoprotein subclasses |
| 93 | Total lipids in IDL | IDL-L | Lipoprotein subclasses |
| 94 | Phospholipids in IDL | IDL-PL | Lipoprotein subclasses |
| 95 | Cholesterol in IDL | IDL-C | Lipoprotein subclasses |
| 96 | Cholesteryl esters in IDL | IDL-CE | Lipoprotein subclasses |
| 97 | Free cholesterol in IDL | IDL-FC | Lipoprotein subclasses |
| 98 | Triglycerides in IDL | IDL-TG | Lipoprotein subclasses |
| 99 | Concentration of large LDL particles | L-LDL-P | Lipoprotein subclasses |
| 100 | Total lipids in large LDL | L-LDL-L | Lipoprotein subclasses |
| 101 | Phospholipids in large LDL | L-LDL-PL | Lipoprotein subclasses |
| 102 | Cholesterol in large LDL | L-LDL-C | Lipoprotein subclasses |
| 103 | Cholesteryl esters in large LDL | L-LDL-CE | Lipoprotein subclasses |
| 104 | Free cholesterol in large LDL | L-LDL-FC | Lipoprotein subclasses |
| 105 | Triglycerides in large LDL | L-LDL-TG | Lipoprotein subclasses |
| 106 | Concentration of medium LDL particles | M-LDL-P | Lipoprotein subclasses |
| 107 | Total lipids in medium LDL | M-LDL-L | Lipoprotein subclasses |
| 108 | Phospholipids in medium LDL | M-LDL-PL | Lipoprotein subclasses |
| 109 | Cholesterol in medium LDL | M-LDL-C | Lipoprotein subclasses |
| 110 | Cholesteryl esters in medium LDL | M-LDL-CE | Lipoprotein subclasses |
| 111 | Free cholesterol in medium LDL | M-LDL-FC | Lipoprotein subclasses |
| 112 | Triglycerides in medium LDL | M-LDL-TG | Lipoprotein subclasses |
| 113 | Concentration of small LDL particles | S-LDL-P | Lipoprotein subclasses |
| 114 | Total lipids in small LDL | S-LDL-L | Lipoprotein subclasses |
| 115 | Phospholipids in small LDL | S-LDL-PL | Lipoprotein subclasses |
| 116 | Cholesterol in small LDL | S-LDL-C | Lipoprotein subclasses |
| 117 | Cholesteryl esters in small LDL | S-LDL-CE | Lipoprotein subclasses |
| 118 | Free cholesterol in small LDL | S-LDL-FC | Lipoprotein subclasses |
| 119 | Triglycerides in small LDL | S-LDL-TG | Lipoprotein subclasses |
| 120 | Concentration of very large HDL particles | XL-HDL-P | Lipoprotein subclasses |
| 121 | Total lipids in very large HDL | XL-HDL-L | Lipoprotein subclasses |
| 122 | Phospholipids in very large HDL | XL-HDL-PL | Lipoprotein subclasses |
| 123 | Cholesterol in very large HDL | XL-HDL-C | Lipoprotein subclasses |
| 124 | Cholesteryl esters in very large HDL | XL-HDL-CE | Lipoprotein subclasses |
| 125 | Free cholesterol in very large HDL | XL-HDL-FC | Lipoprotein subclasses |
| 126 | Triglycerides in very large HDL | XL-HDL-TG | Lipoprotein subclasses |
| 127 | Concentration of large HDL particles | L-HDL-P | Lipoprotein subclasses |
| 128 | Total lipids in large HDL | L-HDL-L | Lipoprotein subclasses |
| 129 | Phospholipids in large HDL | L-HDL-PL | Lipoprotein subclasses |

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|-----|---------------------------------------|----------|------------------------|
| 130 | Cholesterol in large HDL | L-HDL-C | Lipoprotein subclasses |
| 131 | Cholesteryl esters in large HDL | L-HDL-CE | Lipoprotein subclasses |
| 132 | Free cholesterol in large HDL | L-HDL-FC | Lipoprotein subclasses |
| 133 | Triglycerides in large HDL | L-HDL-TG | Lipoprotein subclasses |
| 134 | Concentration of medium HDL particles | M-HDL-P | Lipoprotein subclasses |
| 135 | Total lipids in medium HDL | M-HDL-L | Lipoprotein subclasses |
| 136 | Phospholipids in medium HDL | M-HDL-PL | Lipoprotein subclasses |
| 137 | Cholesterol in medium HDL | M-HDL-C | Lipoprotein subclasses |
| 138 | Cholesteryl esters in medium HDL | M-HDL-CE | Lipoprotein subclasses |
| 139 | Free cholesterol in medium HDL | M-HDL-FC | Lipoprotein subclasses |
| 140 | Triglycerides in medium HDL | M-HDL-TG | Lipoprotein subclasses |
| 141 | Concentration of small HDL particles | S-HDL-P | Lipoprotein subclasses |
| 142 | Total lipids in small HDL | S-HDL-L | Lipoprotein subclasses |
| 143 | Phospholipids in small HDL | S-HDL-PL | Lipoprotein subclasses |
| 144 | Cholesterol in small HDL | S-HDL-C | Lipoprotein subclasses |
| 145 | Cholesteryl esters in small HDL | S-HDL-CE | Lipoprotein subclasses |
| 146 | Free cholesterol in small HDL | S-HDL-FC | Lipoprotein subclasses |
| 147 | Triglycerides in small HDL | S-HDL-TG | Lipoprotein subclasses |