

Trait abbreviation	Trait description
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LIPOPROTEIN SUBCLASSES

XXL-VLDL	Chylomicrons and extremely large very-low-density lipoprotein (VLDL) particles (average particle diameter ≥ 75 nm)
XL-VLDL	Very large VLDL particles (64 nm)
L-VLDL	Large VLDL particles (53.6 nm)
M-VLDL	Medium VLDL particles (44.5 nm)
S-VLDL	Small VLDL particles (36.8 nm)
XS-VLDL	Very small VLDL particles (31.3 nm)
IDL	Intermediate-density lipoprotein particles (28.6 nm)
L-LDL	Large low-density lipoprotein (LDL) particles (25.5 nm)
M-LDL	Medium (LDL) particles (23.0 nm)
S-LDL	Small (LDL) particles (18.7 nm)
XL-HDL	Very large high-density lipoprotein (HDL) particles (14.3 nm)
L-HDL	Large (HDL) particles (12.1 nm)
M-HDL	Medium (HDL) particles (10.9 nm)
S-HDL	Small (HDL) particles (8.7 nm)

CONCENTRATIONS OF CIRCULATING LIPIDS

P	Particle concentration (mol/l)
L	Total lipids (mmol/l)
PL	Phospholipids (mmol/l)
C	Total cholesterol (mmol/l)
CE	Cholesterol esters (mmol/l)
FC	Free cholesterol (mmol/l)
TG	Triglycerides (mmol/l)

LIPOPROTEIN COMPOSITION MEASURES

PL%	Phospholipids to total lipids ratio (%)
C%	Total cholesterol to total lipids ratio (%)
CE%	Cholesterol esters to total lipids ratio (%)
FC%	Free cholesterol to total lipids ratio (%)
TG%	Triglycerides to total lipids ratio (%)

AVERAGE PARTICLE DIAMETER

VLDL-D	Mean diameter for VLDL particles (nm)
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LDL-D	Mean diameter for LDL particles (nm)
HDL-D	Mean diameter for HDL particles (nm)
TOTAL CIRCULATING LIPID CONCENTRATIONS	
Serum-C	Serum total cholesterol (mmol/l)
VLDL-C	Total cholesterol in VLDL particles (mmol/l)
Remnant-C	Remnant cholesterol (non-HDL, non-LDL cholesterol) (mmol/l)
LDL-C	Total cholesterol in LDL particles (mmol/l)
HDL-C	Total cholesterol in HDL particles (mmol/l)
HDL2-C	Total cholesterol in HDL2 particles (mmol/l)
HDL3-C	Total cholesterol in HDL3 particles (mmol/l)
EstC	Esterified cholesterol (mmol/l)
FreeC	Free cholesterol (mmol/l)
Serum-TG	Serum total triglycerides (mmol/l)
VLDL-TG	Triglycerides in VLDL particles (mmol/l)
LDL-TG	Triglycerides in LDL particles (mmol/l)
HDL-TG	Triglycerides in HDL particles (mmol/l)
TotPG	Total phosphoglycerides (mmol/l)
TG/PG	Ratio of triglycerides to phosphoglycerides
PC	Phosphatidylcholine and other cholines (mmol/l)
SM	Sphingomyelins (mmol/l)
TotCho	Total cholines (mmol/l)
APOLIPOPROTEIN CONCENTRATIONS	
ApoA-I	Apolipoprotein A-I (g/l)
ApoB	Apolipoprotein B (g/l)