

Reporting Title: LDL and HDL Particles NMR, P
Performing Location: Rochester

Specimen Requirements:

Container/Tube: Lavender top (EDTA)
Specimen Volume: 1 mL

Specimen Type	Temperature	Time
Plasma EDTA	Refrigerated (preferred)	6 days
	Frozen	

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
LDLPV	Total LDL Particle Concentration Also used by tests: TLDLP	Numeric	nmol/L	14815-5
LSPV	Small LDL Particle Concentration	Numeric	nmol/L	In Process
HDLPV	Total HDL Particle Concentration	Numeric	mcmol/L	In Process
HLPV	Large HDL Particle Concentration	Numeric	mcmol/L	In Process
NMRI2	Interpretation	Alphanumeric		In Process

CPT Code: 1 x 83704

Reference Values:

TOTAL LDL PARTICLE CONCENTRATION

< or =15 years: not established
Adults (> or =16 years):
<1,000 nmol/L (optimal)
1,000-1,299 nmol/L (near or above optimal)
1,300-1,599 nmol/L (borderline high)
1,600-2,000 nmol/L (high)
>2,000 nmol/L (very high)

SMALL LDL PARTICLE CONCENTRATION

< or =15 years: not established
Adults (> or =16 years):
<117 nmol/L (optimal)
117-526 nmol/L (intermediate)
527-839 nmol/L (borderline high)

>839 nmol/L (high)

TOTAL HDL PARTICLE CONCENTRATION

< or =15 years: not established

Adults (> or =16 years):

<26.7 mcmol/L (low)

26.7-34.9 mcmol/L (intermediate)

>34.9 mcmol/L (optimal)

LARGE HDL PARTICLE CONCENTRATION

< or =15 years: not established

Adults (> or =16 years):

<3.1 mcmol/L (low)

3.1-7.3 mcmol/L (intermediate)

>7.3 mcmol/L (optimal)

Small LDL, Total HDL and Large HDL Particle Concentrations were validated by LipoScience and the CVLM laboratory at the Mayo Clinic. NMR spectra are generated at Mayo Clinic, 200 First St., Rochester, MN 55905 and results calculated by Liposcience, Inc., 2500 Sumner Boulevard, Raleigh NC 27616.

Interpretation of LDL lipoprotein concentration should be conducted within the context of standard lipid profile results (total cholesterol, triglycerides, HDL cholesterol, calculated LDL cholesterol and non-HDL cholesterol).