

Reporting Title: Lipoprotein Metabolism Profile

Performing Location: Rochester

Necessary Information:

Patient's age and sex are required.

Specimen Requirements:

Patient Preparation:

- 1. Fasting-overnight (12-14 hours)
- 2. Patient must not consume any alcohol for 24 hours before the specimen is collected.

Collection Container/Tube:

Preferred: Serum gel

Acceptable: Red top

Submission Container/Tube: Plastic vial

Specimen Volume: 5 mL

Collection Instructions: Centrifuge and aliquot serum into a plastic vial.

Forms:

If not ordering electronically, complete, print, and send a [Cardiovascular Test Request Form](#) (T724) with the specimen.

Specimen Type	Temperature	Time	Special Container
Serum	Refrigerated (preferred)	7 days	
	Frozen	60 days	

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
TCS	Cholesterol, Total, CDC, S	Numeric	mg/dL	2093-3
HDLS	HDL Cholesterol, CDC, S	Numeric	mg/dL	2085-9
TRIGC	Triglycerides, CDC, S	Numeric	mg/dL	2571-8
APLBS	Apolipoprotein B, S	Numeric	mg/dL	1884-6
2839	LDL Cholesterol	Alphanumeric	mg/dL	2089-1
2840	LDL Triglycerides	Alphanumeric	mg/dL	3046-0
2844	VLDL cholesterol	Alphanumeric	mg/dL	2091-7
2847	VLDL triglycerides	Alphanumeric	mg/dL	3047-8
2842	Beta VLDL Cholesterol	Alphanumeric	mg/dL	66499-5
2843	Beta VLDL triglycerides	Alphanumeric	mg/dL	3045-2
2855	Chylomicron cholesterol	Alphanumeric	mg/dL	34467-1
2856	Chylomicron triglycerides	Alphanumeric	mg/dL	35363-1
2849	Lp(a) Cholesterol	Numeric	mg/dL	35388-8
23924	LpX	Alphanumeric		42178-4
23937	Interpretation	Alphanumeric		59462-2

LOINC® and CPT codes are provided by the performing laboratory.

Supplemental Report:
No

Components:

Test Id	Reporting Name	CPT Units	CPT Code	Always Performed	Available Separately
TCS	Cholesterol, Total, CDC, S	1	82465	Yes	No
TRIGC	Triglycerides, CDC, S	1	84478	Yes	No
APLBS	Apolipoprotein B, S	1	82172	Yes	Yes, (order APOLB)
HDLS	HDL Cholesterol, CDC, S	1	83718	Yes	No
LMPP1	Lipoprotein Metabolism Profile 1			Yes	No

CPT Code Information:
80061-Lipid panel (includes: HDL [CPT Code 83718], total cholesterol [CPT Code 82465], and triglycerides [CPT Code 84478] if all performed)
82172-Apolipoprotein B
83700-Lp(a) cholesterol electrophoresis

Reference Values:

	2-9 years	10-17 years	> or =18 years
Total cholesterol	* Acceptable: <170 mg/dL Borderline high: 170-199 mg/dL High: > or =200 mg/dL		** Desirable: <200 mg/dL Borderline high: 200-239 mg/dL High: > or = 240 mg/dL
Triglycerides	* Acceptable: <75 mg/dL Borderline high: 75-99 mg/dL High: > or =100 mg/dL	* Acceptable: <90 mg/dL Borderline high: 90-129 mg/dL High: > or =130 mg/dL	** Normal: <150 mg/dL Borderline high: 150-199 mg/dL High: 200-499 mg/dL Very high: > or =500 mg/dL
Low-density lipoprotein (LDL) cholesterol	* Acceptable: <110 mg/dL Borderline high: 110-129 mg/dL High: > or =130 mg/dL		*** Desirable: <100 mg/dL Above Desirable: 100-129 mg/dL Borderline high: 130-159 mg/dL High: 160-189 mg/dL Very high: > or =190 mg/dL
LDL triglycerides	< or =50 mg/dL		< or =50 mg/dL
Apolipoprotein B	* Acceptable: <90 mg/dL Borderline high: 90-109 mg/dL		*** Desirable: <90 mg/dL Above Desirable: 90-99mg/dL

	High: > or =110 mg/dL	Borderline high: 100-119 mg/dL High: 120-139 mg/dL Very high: > or =140 mg/dL
High-density lipoprotein (HDL) cholesterol	* Low: <40 mg/dL Borderline low: 40-45 mg/dL Acceptable: >45 mg/dL	*** Males: > or =40mg/dL Females: > or =50mg/dL
Very low-density lipoprotein (VLDL) cholesterol	<30 mg/dL	<30 mg/dL
VLDL triglycerides	<90 mg/dL	<120 mg/dL
Beta VLDL cholesterol	<15 mg/dL	<15 mg/dL
Beta VLDL triglycerides	<15 mg/dL	<15 mg/dL
Chylomicron cholesterol	Undetectable	Undetectable
Chylomicron triglycerides	Undetectable	Undetectable
Lp(a) cholesterol	<5 mg/dL	<5 mg/dL
LpX	Undetectable	Undetectable

Reference values have not been established for patients who are less than 2 years of age.

*Expert Panel on Integrated Guidelines for Cardiovascular Health and Risk Reduction in Children and Adolescents

**National Cholesterol Education Program (NCEP)

***National Lipid Association