

Lipid Panel, Serum

Test ID: LPSC1

Useful for:

Managing atherosclerotic cardiovascular disease risk using serum specimens

Profile Information:

Test ID	Reporting Name	Available Separately	Always Performed
CHOL	Cholesterol, Total, S	Yes	Yes
TRIG	Triglycerides, S	Yes	Yes
HDCH	Cholesterol, HDL, S	Yes	Yes
CLDL1	Cholesterol, LDL, Calculated, S	No	Yes
NHDCH	Cholesterol, Non-HDL, Calculated, S	No	Yes
INTC1	Fasting (8 HR or more)	No	Yes

Methods:

CHOL, TRIG, HDCH: Enzymatic Colorimetric

CLDL1, NHDCH: Calculation

Reference Values:

The National Lipid Association and the National Cholesterol Education Program have set the following guidelines for lipids in a context of cardiovascular risk for adults 18 years of age and older:

TOTAL CHOLESTEROL

Desirable: <200 mg/dL

Borderline High: 200-239 mg/dL

High: > or =240 mg/dL

TRIGLYCERIDES

Normal: <150 mg/dL

Borderline High: 150-199 mg/dL

High: 200-499 mg/dL

Very High: > or =500 mg/dL

HIGH DENSITY LIPOPROTEIN (HDL) CHOLESTEROL

Males

> or =40 mg/dL

Females

> or =50 mg/dL

LOW DENSITY LIPOPROTEIN (LDL) CHOLESTEROL

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

NON-HDL CHOLESTEROL

Desirable: <130 mg/dL

Above Desirable: 130-159 mg/dL

Borderline High: 160-189 mg/dL

High: 190-219 mg/dL

Very High: > or =220 mg/dL

The Expert Panel on Integrated Guidelines for Cardiovascular Health and Risk Reduction in Children and Adolescents has set the following guidelines for lipids in a context of cardiovascular risk for children ages 2-17: Reference values have not been established for patients who are younger than 24 months of age.

TOTAL CHOLESTEROL

Acceptable: <170 mg/dL

Borderline High: 170-199 mg/dL

High: > or =200 mg/dL

TRIGLYCERIDES

2-9 years:

Acceptable: <75 mg/dL

Borderline High: 75-99 mg/dL

High: > or =100mg/dL

10-17 years:

Acceptable: <90 mg/dL

Borderline High: 90-129 mg/dL

High: > or =130 mg/dL

HDL CHOLESTEROL

Low HDL: <40 mg/dL

Borderline Low: 40-45 mg/dL

Acceptable: >45 mg/dL

LDL CHOLESTEROL

Acceptable: <110 mg/dL

Borderline High: 110-129 mg/dL

High: > or =130 mg/dL

NON-HDL CHOLESTEROL

Acceptable: <120 mg/dL

Borderline High: 120-144 mg/dL

High: > or =145 mg/dL

Specimen Requirements:

Preferred: Serum gel

Acceptable: Red top

Specimen Volume: 1 mL

Collection Instructions:

1. Serum gel tube must be centrifuged within 2 hours of collection.
2. Red-top tube must be centrifuged and the serum aliquoted into a plastic vial within 2 hours of collection.

Minimum Volume: 0.5 mL

Specimen Stability Information:

Specimen Type	Temperature	Time
Serum	Refrigerated (preferred)	7 days
	Frozen	30 days

Cautions:

Consuming alcohol or fatty foods 24 hours prior to specimen collection can increase serum triglycerides.

Eating a meal 12 hours prior to specimen collection can increase serum triglycerides.

Calculated low-density lipoprotein cholesterol is not applicable when triglyceride levels are greater than 800 mg/dL.

Consider repeat measurement of lipids prior to initiating or changing lipid therapy.

CPT Codes:

80061-Lipid panel (if all 3 performed)

82465-Cholesterol, total (if all 3 are not performed)

84478-Triglycerides (if all 3 are not performed)

83718-Cholesterol, HDL (if all 3 are not performed)

Day(s) Performed: Monday through Sunday **Report Available:** 1 day

Questions

Contact Nancy Benson, Laboratory Technologist Resource Coordinator at 800-533-1710.