

Cardiovascular Risk Marker Panel, Serum

Test ID: CRMP1

Useful for:

Assessment for risk of developing cardiovascular disease, major adverse cardiovascular events, or ischemic cerebrovascular events

Profile Information:

Test ID	Reporting Name	Available Separately	Always Performed
CLDL1	Cholesterol, LDL, Calculated, S	No	Yes
NHDCH	Cholesterol, Non-HDL, Calculated, S	No	Yes
APOLB	Apolipoprotein B, S	Yes	Yes
HDCH	Cholesterol, HDL, S	Yes	Yes
CHOL	Cholesterol, Total, S	Yes	Yes
TRIG	Triglycerides, S	Yes	Yes
LIPA1	Lipoprotein(a), S	Yes	Yes
HSCR P	C-Reactive Protein, High Sens, S	Yes	Yes
CVINT	Interpretation	No	Yes
INTC1	Fasting (8 HR or more)	No	Yes

Methods:

LIPA1, HSCR P, APOLB: Immunospectrophotometry Assay

CHOL, TRIG, HDCH: Enzymatic Colorimetric

CLDL1, NHDCH: Calculation

Reference Values:

Age	2-17 years	> or =18 years
CALCULATED NON-HDL CHOLESTEROL (mg/dL)	** Acceptable: <120 Borderline high: 120-144 High: > or =145	* Desirable: <130 Above Desirable: 130-159 Borderline high: 160-189 High: 190-219 Very high: > or =220
CALCULATED LDL CHOLESTEROL (mg/dL)	** Acceptable: <110 Borderline high: 110-129 High: > or =130	*** Desirable: <100 Above Desirable: 100-129 Borderline high: 130-159 High: 160-189 Very high: > or =190
HDL CHOLESTEROL (mg/dL)	** Low: <40 Borderline low: 40-45 Acceptable: > 45	*** Males: > or =40 Females: > or =50
TOTAL CHOLESTEROL (mg/dL)	** Acceptable: <170 Borderline high: 170-199 High: > or =200	* Desirable: < 200 Borderline high: 200 - 239 High: > or = 240
LIPOPROTEIN (a) (nmol/L)	Not established	< 75 nmol/L Values >= 75 nmol/L may suggest increased risk of coronary heart disease.
C-REACTIVE PROTEIN, HIGH SENSITIVITY (mg/L)	* Lower risk: <2.0 Higher risk: >=2.0 Acute inflammation: >10.0	* Lower risk: <2.0 Higher risk: >=2.0 Acute inflammation: >10.0
APOLIPOPROTEIN B (mg/dL)	Acceptable: <90 Borderline high: 90-109 High: > or =110	Desirable: <90 Above Desirable: 90-99 Borderline high: 100-119 High: 120-139 Very high: > or =140

Age	2-9 years	10-17 years	> or =18 years
TRIGLYCERIDES (mg/dL)	** Acceptable: <75 Borderline high: 75-99 High: > or =100	** Acceptable: <90 Borderline high: 90-129 High: > or =130	* Normal: <150 Borderline high: 150-199 High: 200-499 Very high: > or =500

*National Lipid Association 2014

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

***National Cholesterol Education Program (NCEP)

Specimen Requirements:

Preferred:	Serum gel
Acceptable:	Red top
Specimen Volume:	2.5 mL
Collection Instructions:	Centrifuge and aliquot serum into plastic vial. Send refrigerated.
Minimum Volume:	1.25 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 triglycerides are greater than 800 mg/dL.

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

Result can be falsely decreased in patients with elevated levels of N-acetyl-p-benzoquinone imine -a metabolite of acetaminophen, N-acetylcysteine , and metamizole.

CPT Codes:

80061-Lipid panel (includes: HDL [CPT Code 83718], total cholesterol [CPT Code 82465], and triglycerides [CPT Code 84478])

83695-Lipoprotein (a)

86141-C-reactive protein; high sensitivity (hsCRP)

82172-Apolipoprotein B

Day(s) Performed: Monday through Sunday **Report Available:** 1 to 2 days

Questions

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