
Lab Dept: Chemistry

Test Name: LIPID PROFILE

General Information

Lab Order Codes: LIPL

Synonyms: Lipid Panel

CPT Codes: 80061 – Lipid panel

Test Includes: Total Cholesterol, Triglycerides, HDL Cholesterol and LDL Cholesterol (measured)

Logistics

Test Indications: Evaluation of cardiovascular risk.

Lab Testing Sections: Chemistry

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 2 hours

Special Instructions: See [Patient Preparation](#)

Specimen

Specimen Type: Blood

Container: Green (Li Heparin) top tube
Alternate: SST –Serum Separator (Red, marble or gold top tube)

Draw Volume: 1.5 mL (Minimum: 0.6 mL) blood

Processed Volume: 0.5 mL (Minimum: 0.2 mL) plasma/serum

Collection: Routine blood collection.
Note: Venipuncture should occur prior to administration of N-Acetylcysteine (NAC) or Metamizole due to the potential for falsely depressed results.

Special Processing: Lab Staff: Centrifuge specimen, remove plasma/serum aliquot into a plastic sample cup. Sample to be run within 2 hours.

Patient Preparation: Patient should be on a stable diet for 3 weeks, and fast 9-12 hours before collection, recommended.

Sample Rejection: Mislabeled or unlabeled specimen

Interpretive

Reference Range:

Reference Ranges:		2 – 17 yrs	≥18 yrs	
Total Cholesterol: (mg/dL)	Desirable	<170	<200	
	Borderline high:	170 - 199	200 - 239	
	High	≥200	≥240	
HDL Cholesterol: (mg/dL)	Low:	<40	<40	
	Normal:	≥60	40 – 60	
	Desirable:	>60	≥60	
LDL Cholesterol: (mg/dL)	Acceptable:	<110	<100	
	Near optimal:	NA	100 - 129	
	Borderline:	110 – 129	130 – 159	
	High:	≥130	≥160	
Triglycerides: (mg/dL)		0 – 9 yrs	10 – 17 yrs	≥18 yrs
	Acceptable:	0 - 75	<90	<150
	Borderline:	75 - 99	90 - 129	150 – 199
	High:	≥100	≥130	≥200
Note: The National Education Program (NCEP) has set the above guidelines for lipids (total cholesterol, triglycerides, HDL, and LDL cholesterol).				

Critical Values: N/A

Limitations: Use of gel tubes may adversely affect HDL/LDL levels.

Methodology:

Enzymatic colorimetric; dextran sulfate, direct measure LDL

References:

CHOL Flex™ reagent cartridge insert sheet Siemens Healthcare Diagnostics Inc. (2008-03-04) Rev I 717027.001 – US

TGL Flex® reagent cartridge insert sheet Siemens Healthcare Diagnostics Inc (2013-08-20) Rev E 781069.001

AHDL Flex™ reagent cartridge insert sheet, Siemens Healthcare Diagnostics Inc. (2009-07-22) Rev A, PN 717048.002 –US

ALDL Flex® reagent cartridge insert sheet PN 717731.001 (Issue Date 2008-02-13) Rev. B

US Department of Health and Human Services (May 2001) National Institutes of Health Publication # 01-3305

US Department of Health and Human Services, Summary Report of the Expert Panel on Integrated Guidelines for Cardiovascular Health and Risk Reduction in Children and Adolescents:7

Mayo Medical Laboratories (1/6/2012) online test catalogue

Medical Device Correction Notice, DC-16-02.A.US (3/17/2016) Siemens Healthcare Diagnostics

Updates:

2/21/2012: Testing moved to inhouse test at Children's, previously listed as referred to Mayo Medical Laboratories.

6/18/2013: Added no gel restriction for red top tubes.

2/8/2016: Update alt tube types

3/29/2016:Updated collection information and references