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
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:	All ages:	Range (mg/dL)
Total Cholesterol: (mg/dL)	Normal	42 – 199
	Abnormal	≥200
HDL Cholesterol	Normal	≥40
	Abnormal	<40
LDL Cholesterol	Abnormal high	≥130
	Age	Range
Triglycerides	Normal	
	0 – 9 years:	<100
	9 – 18 years:	<130
	Adult:	<200

Critical Values:

N/A

Limitations:

N-Acetyl-L-Cysteine at therapeutically achieved concentrations may lead to falsely low results.

Methodology:

Cholesterol: Enzymatic HDL Cholesterol: Accelerator Selective Detergent LDL Cholesterol: Measured, Liquid Selective Detergent Triglycerides: Glycerol Phosphate Oxidase

References:	Abbott Alinity c Cholesterol Instructions for Use, Abbott Diagnostics Division, Abbott Park, IL, 60064, USA, December 2017,
	Abbot Alinity c Multiconstituent Calibrator Package Insert, Abbott Diagnostics Division, Abbott Park, IL 60064, USA
	Bio-Rad Liquichek Multiqual 1,2,3, Unassayed Chemistry Control Package Insert, Bio-Rad Laboratoriies
	2018 Guideline on the Management of Blood Cholesterol, GUIDELINES MADE SIMPLE, A Selection of Tables and Figures. Americal College of Cardiology, acc.org/GMSCholesterol. Updated June 2019
	Abbott Alinity c Ultra HDL Instructions for Use, Abbott Diagnostics Division, Abbott Park, IL, 60064, USA. Revised February 2018
	Bio-Rad Laboratories Liquichek Multiqual 1,2,3, Unassayed QC Product Insert, Bio-Rad Laboratories, Irvine, CA, USA
	Abbott Alinity c Direct LDL Instructions for Use, Abbott Diagnostics Division, Abbott Park, IL, 60064, USA. Revised December 2017
	Abbott Alinity Lipid Multiconstituent Calibrator, Abbott Diagnostics Division, Abbott Park, IL, 60064, USA
	Bio-Rad Liquichek Unassayed Mutlqual 1,2,3, Control Package Insert, Bio-Rad Laboratories, Irvine, CA, USA
	Abbott Alinity c Triglyceride Reagent Kit Instructions for Use, Abbott Diagnostics Division, Abbott Diagnostics Division, Abbott Park, IL, 60064, USA. December 2017
	Abbott Alinity c Multiconstituent Calibrator Package Insert, Abbott Diagnostics Division, Abbott Park, IL 60064, USA. December 2017
	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
Updates:	 2/21/2012: Testing moved to in house 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 9/10/2020: Updated reference range for HDL cholesterol 11/24/2020: Updated for method Abbott Alinity