
Lab Dept: Chemistry

Test Name: CHOLESTEROL

General Information

Lab Order Codes: CHOL

Synonyms: N/A

CPT Codes: 82465 – Cholesterol, serum or whole blood, total

Test Includes: Cholesterol concentration reported in mg/dL.

Logistics

Test Indications: Useful for the evaluation of lipid status and metabolic disorders; elevated levels of cholesterol contribute to the tendency to develop atherosclerosis and coronary heart disease.

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: N/A

Specimen

Specimen Type: Blood

Container: Green top (Li Heparin) tube **preferred**
Alternate tube: Red, marble or gold top tube

Draw Volume: 0.6 mL blood

Processed Volume: 0.2 mL serum/plasma

Collection: Routine blood collection. Mix tubes containing anticoagulant by gentle inversion.

Special Processing: Lab Staff: Centrifuge specimen, remove serum/plasma aliquot into plastic sample cup. Analyze sample immediately or store at refrigerated temperatures.

Do Not use ultracentrifugation.

Patient Preparation: None

Sample Rejection: Mislabeled or unlabeled specimen

Interpretive

Reference Range:	Age (All ages:	Range (mg/dL)
	Normal	42 - 199
	Abnormal	≥200

Critical Values: N/A

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

Methodology: Enzymatic

References: Abbott Alinity c Cholesterol Instructions for Use, 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

Bio-Rad Liquichek Mutiquel 1,2,3, Unassayed Chemistry Control Package Insert, Bio-Rad Laboratories

2018 Guideline on the Management of Blood Cholesterol, GUIDELINES MADE SIMPLE, A Selection of Tables and Figures. American College of Cardiology, acc.org/GMS Cholesterol. Updated June 2019

Jacobs & DeMott Laboratory Test Handbook (2001) Lexi-Comp, Inc, Hudson, OH, 5th Edition, p146

Biorad MultiQual Chemistry Control Product Insert, Bio-Rad Laboratories, Irvine, CA 92618

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

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

Mayo Medical Laboratories, online test catalog 1/6/2014

Updates:

2/8/2016: Update alt tube types

11/24/2020: Updated for method Abbott Alinity, removed method Siemens Vista