
Lab Dept: Chemistry

Test Name: C3 (THIRD COMPONENT OF COMPLEMENT)

General Information

Lab Order Codes: C3

Synonyms: C'3; Third component of complement; Complement 3

CPT Codes: 86160 – Complement; antigen, each component

Test Includes: C3 concentration reported in mg/dL.

Logistics

Test Indications: C3 is the functional link between the classical and alternative pathways of activation for the membrane attack complex. The test is used for detecting consumption of the complement as seen in immune complex diseases.

Lab Testing Sections: Chemistry

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 1 day

Special Instructions: N/A

Specimen

Specimen Type: Blood

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

Draw Volume: 0.6 mL blood

Processed Volume: 0.2 mL serum

Collection: Routine blood collection

Special Processing: Lab Staff: Centrifuge specimen, remove serum aliquot into a plastic sample cup. Specimens can be stored at refrigerated temperatures for up to 7 days. Centrifuge turbid or particulate samples prior to analysis.

Patient Preparation: None

Sample Rejection: Mislabeled or unlabeled specimens

Interpretive

Reference Range:	Age	Range (mg/dL)
	0 – <15 days:	50 – 121
	15 days – <1 year:	51 - 160
	1 - <19 years:	83 - 152
	Adult:	82 - 193

Critical Values: N/A

Limitations: Samples containing paraproteins (abnormal monoclonal antibodies) may interfere with test results. Samples with elevated total protein concentrations or samples from patients with suspected paraproteinemia can be screened using other laboratory methods, such as protein electrophoresis.

Methodology: Immunoturbidimetric

References: Tietz, NW, Textbook of Clinical Chemistry (1999) WB Saunders Co., Philadelphia, PA, 3rd edition

Abbott Alinity c Complement C3 Reagent Kit Instructions for Use (March 2018) Abbott Laboratories Diagnostics Division, Abbott Park, IL, 60064, USA

Abbott Alinity c Specific Proteins Multiconstituent Calibrators Package Insert (February 2018) Abbott Laboratories Diagnostics Division, Abbott Park, IL, 60064 USA

Bio-Rad Liquichek Immunology Control Package Insert, Bio-Rad Laboratories, Irvine, CA, 92618

CALIPER Reference Range Studies (accessed October 27, 2020)

Updates: 2/8/2016: Update alt tube types
 12/8/2020: Updated for method Abbott Alinity, removed method Siemens Vista

