
Lab Dept: Chemistry

Test Name: PREALBUMIN

General Information

Lab Order Codes: PRAB

Synonyms: Transthyretin

CPT Codes: 84134 - Prealbumin

Test Includes: Prealbumin concentration reported in mg/dL.

Logistics

Test Indications: Prealbumin is a short-lived, rapid responder to nutritional adequacy and a transport protein for thyroxine and Vitamin A. An elevated concentration is associated with renal insufficiency and steroid administration.

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: SST (Red, marbled, or gold) top tube

Draw Volume: 0.6 mL blood

Processed Volume: 0.2 mL serum

Collection: Routine venipuncture..

Special Processing: Lab Staff: Centrifuge specimen, remove serum aliquot into a plastic sample cup. Store at refrigerated temperatures.

Patient Preparation: None

Sample Rejection: Mislabeled or unlabeled specimen

Interpretive

Reference Range:

Age:	Range (mg/dL):
Male & Female	
0 - <15 days:	2 - 12
15 days - <1 year:	5 - 24
1 - <5 years:	12 - 22
5 - <13 years:	14 - 26
13 - <16 years:	18 - 31
Female	
16 - <19 years:	17 - 33
Male	
16 - <19 years:	20 - 35
Male & Female	
Adults:	20 - 42

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: Jacobs and DeMott Laboratory Test Handbook (2001) Lexi-Comp, Inc., Hudson, OH, 5th ed

Abbott Alinity c Prealbumin Reagent Kit Instructions for Use, Abbott Laboratories Diagnostics Division, Abbott Park, IL, 60064, USA. Revised February 2018

Abbott Alinity c Prealbumin Calibrator Package Insert, Abbott Laboratories Diagnostics Division, Abbott Park, IL 60064, USA. Revised April 2018

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

CALIPER Reference Range Studies, accessed October 27, 2020, <https://caliper.research.sickkids.ca/#/>

Updates:

12/22/2011: Turnaround time updated, previously listed as 1 day.

3/6/2014: Method update, previously listed as PETIA

2/9/2016: Update alt tube type

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