
Lab Dept: Chemistry

Test Name: ALBUMIN

General Information

Lab Order Codes: ALB

Synonyms: N/A

CPT Codes: 82040 – Albumin; serum

Test Includes: Albumin concentration reported in g/dL.

Logistics

Test Indications: Useful for the evaluation of nutritional status and renal disease. Albumin is the most abundant plasma protein accounting for approximately one half of the plasma protein mass. Albumin is a significant component of most extravascular body fluids. The primary function of albumin is generally considered to be the maintenance of colloidal osmotic pressure in both the vascular and extravascular spaces. Albumin is a negative acute phase reactant.

Lab Testing Sections: Chemistry

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 4 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. Store at refrigerated temperatures.
Patient Preparation:	Levels are posture dependent, increasing up to 10-15% if the individual is standing. Draw while patient is seated whenever possible. Suggest a redraw if falsely low results are suspected due to supine draw.
Sample Rejection:	Mislabeled or unlabeled specimen

Interpretive

Method Abbott	
0 – 14 days:	3.3 – 4.5
15 days – 1 year:	2.8 – 4.7
1 – 7 years:	3.8 – 4.7
8 – 14 years:	4.1 – 4.8
15 – 18 years female:	4.0 – 4.9
15 – 18 years male:	4.1 – 5.1
Adult:	3.0 – 5.2

Critical Values:	N/A
Limitations:	Albumin may be lower for patients in a supine position.
Methodology:	ABBOTT: Colorimetric (Bromcresol Green)
References:	<p>Jacobs & DeMott Laboratory Test Handbook (2001) Lexi-Comp, Inc, Hudson, OH, 5th Edition</p> <p>Architect Albumin BCG Pkg Insert, Abbott Laboratories Diagnostics Division, Abbott Park, IL 60064, December 2015</p> <p>Alinity Albumin BCG Pkg Insert, Abbott Laboratories Diagnostics Division, Abbott Park, IL 60064, December 2017</p> <p>CALIPER pediatric reference range database (2019) Retrieved October 3, 2019, from https://caliper.research.sickkids.ca/#/</p>

Clinical Significance, Dade Behring Inc., Glasgow Business Community,
Mailbox 531, P.O. Box 6101, Newark, Delaware 19714

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

Updates:

5/1/2015: Reference range update

2/8/2016: Alternate tube update

10/18/2019: New backup instrumentation and related reference ranges.

11/6/2020: Vista method retired and removed, update patient prep.