
Lab Dept: Chemistry

Test Name: ALPHA-1-ANTITRYPSIN, SERUM

General Information

Lab Order Codes: AATB

Synonyms: AAT, serum; A1A, serum

CPT Codes: 82103 – Alpha-1-antitrypsin; total

Test Includes: Serum alpha-1-antitrypsin concentration in mg/dL

Logistics

Test Indications: Useful for workup of individuals with suspected disorders such as familial chronic obstructive lung disease.

Lab Testing Sections: Chemistry - Sendouts

Referred to: Mayo Medical Laboratories (MML Test: 8161/AAT)

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 1 - 2 days, test set up Monday - Saturday

Special Instructions: N/A

Specimen

Specimen Type: Blood

Container: SST (Gold, marble or red) tube

Draw Volume: 3 mL (Minimum: 1.5 mL) blood

Processed Volume: 1 mL (Minimum: 0.5 mL) serum

Collection: Routine venipuncture

Special Processing: Lab Staff: Centrifuge specimen, remove serum aliquot into a screw-capped plastic vial. Store and ship at refrigerated temperatures. Forward promptly.

Patient Preparation: None

Sample Rejection: Specimens other than serum; mislabeled or unlabeled specimens; gross hemolysis; gross lipemia

Interpretive

Reference Range: 100 - 190 mg/dL

Critical Values: N/A

Limitations: Low Alpha-1-antitrypsin (A1A) levels may result from liver disease, and A1A genotyping should be done to confirm A1A deficiency disease.

A1A is an acute phase reactant and any inflammatory process will elevate serum A1A levels.

Methodology: Nephelometry

References: [Mayo Medical Laboratories Web Page](#) November 2017

Updates: 11/8/2017: Collection container update.