### Lab Dept: Chemistry

**Test Name:** ALPHA-1-ANTITRYPSIN, SERUM

#### General Information

<table>
<thead>
<tr>
<th>Lab Order Codes:</th>
<th>AATB</th>
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<tbody>
<tr>
<td>Synonyms:</td>
<td>AAT, serum; A1A, serum</td>
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<tr>
<td>CPT Codes:</td>
<td>82103 – Alpha-1-antitrypsin; total</td>
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<tr>
<td>Test Includes:</td>
<td>Serum alpha-1-antitrypsin concentration in mg/dL</td>
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#### 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