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**Lab Dept:** Chemistry

**Test Name:** ALPHA-1-ANTITRYPSIN, RANDOM STOOL

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***General Information***

**Lab Order Codes:** AATS

**Synonyms:** A1A, random stool; AAT, random stool

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

**Test Includes:** Alpha-1-Antitrypsin Random quantitative stool reported in mg/dL.

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***Logistics***

**Test Indications:** The recommended procedure for protein-losing enteropathy is "[Alpha-1-Antitrypsin Clearance, Feces and Serum](#)".

**Lab Testing Sections:** Chemistry - Sendouts

**Referred to:** Mayo Medical Laboratories (MML Test: 182/A1AF)

**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

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***Specimen***

**Specimen Type:** Stool

**Container:** Stool containers supplied by Mayo Medical Laboratories (Supply T291) and obtained from Children's laboratory

**Draw Volume:** Random stool specimen (at least 5 grams)

**Processed Volume:** Entire random stool of at least 5 grams (Absolute Minimum: 1 gram homogenized stool)

**Collection:** Random stool collection

<b>Special Processing:</b>	Lab Staff: Freeze all stool sample obtained. Send sample in the original collection container. Store and ship frozen at frozen temperatures. Forward promptly.
<b>Patient Preparation:</b>	None
<b>Sample Rejection:</b>	Specimens other than stool; mislabeled or unlabeled specimens

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### ***Interpretive***

**Reference Range:** ≤54 mg/dL

Interpretation: Patients with protein-losing enteropathies generally A1A stool concentrations >100 mg/mL.

Borderline elevations above the normal range are equivocal for protein-losing enteropathies.

**Critical Values:** N/A

**Limitations:** The clearance studies using 24 hour stool specimens and serum determinations are preferred in order to normalize the large range of serum A1A concentrations and the variability in random stool A1A concentration. In the absence of either a 24 hour stool collection or a contemporary serum specimen, the fecal concentration of A1A can be used as a surrogate marker.

**Methodology:** Nephelometry

**References:** [Mayo Medical Laboratories Web Page](#) (October 2014)