
Lab Dept: Chemistry

Test Name: ALPHA-1-ANTITRYPSIN, RANDOM STOOL

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.

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: 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

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

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

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](#) December 2017