

TEST STATUS – NEW TEST

Notification Date: 1/14/25

Effective Date: 1/29/25

Test Name: Alpha-1 Antitrypsin Level and Phenotype

Test ID: LAB6749

Explanation: On the effective date, alpha-1 antitrypsin (A1AT) level and phenotype will become an in-house test and no longer be sent to a reference laboratory.

Useful For: Evaluation of A1AT deficiency

Methodology:

Level: Immunospectrophotometric assay, quantitative

Phenotype: Isoelectric focusing electrophoresis, qualitative

Reference Interval:

Level: 90-200 mg/dL

Phenotype: See interpretation

Specimen Requirements:

Test	A1AT Level and Phenotype
Specimen Type:	Serum
Alternate Specimen:	Not applicable
Container/Tube:	Serum (gold top)
Specimen Preparation:	Spin and separate from cells ASAP or within 2 hours of collection; refrigerate immediately
Specimen Volume:	Fill to Indicator Line
Pediatric Collection:	1 Gold Microtainer (0.5 mL minimum)
Storage/Transport Temperature:	Refrigerated (2-8 °C)

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Specimen Stability Information:

Specimen Type	Temperature	Time
Serum	Ambient	4 hr
Serum	2° to 8°C	1 week
Serum	Frozen	1 month

Cautions: Keep refrigerated as much as possible. Avoid prolonged exposure to high or ambient temperatures.

Reasons for Rejection: Improper collection container, sample outside of stability limits.

CPT Code(s): 82103 (level) and 82104 (phenotype)

Days(s) Performed: Monday, Wednesday, and Friday

Report Available: Within 24 hours

Questions: Please get in touch with Vanderbilt Medical Laboratories Customer Service at 615-875-5227 (5-LABS) or 800-551-5227 or visit our website: [Home | Vanderbilt Medical Laboratories \(vumc.org\)](http://Home | Vanderbilt Medical Laboratories (vumc.org))