



4021 Stirrup Creek Dr, Suite 110 CLIA ID#: 34D2337158
 Durham, NC 27703 CAP Accr #: 7820223
 Phone: 1-877-TEST4A1 Lab Director: James Fuller, PhD
 Fax: xxx-xxx-xxxx

Patient:	TEST, PATIENT	Accession:	1047
Patient #:	1000	Birth:	7/8/1980
Provider:	DOCTOR, TEST	Age:	46 years
		Gender:	Female
		Collection Date:	7/30/2026 12:41 PM
		Received Date:	7/30/2026 12:41 PM ~LD
		Specimen Type	Serum

Test Name	Result	Units	Flag	Reference Range/Cutoff
Alpha-1 Antitrypsin				
A1AT Genotype	M/M		NORMAL	NORMAL RANGE=M/M
AAT Level	96	mg/dL	NORMAL	90 - 160

Run by ~LD on 7/30/2026 12:41:41 PM

Notes: Providers seeking additional information regarding the genetic results found in this report, please contact AlphaDetect at 1-877-TEST4A1.

People with Alpha-1 Antitrypsin Deficiency (Alpha-1) have mutations in a gene called SERPINA1. The SERPINA1 gene provides instructions for making a protein called alpha-1 antitrypsin (AAT), which protects the body from damage by its immune cells. If the results show alpha-1 antitrypsin deficiency (low AAT level) the person inherited at least one copy of the abnormal SERPINA1 gene- from one of their parents. More than 150 different mutations in the SERPINA1 gene have been identified, but some can increase the risk of serious lung, liver or skin disorders.

Of note, AAT is an acute phase protein so high levels of AAT can be present during infection, inflammation, or pregnancy. Therefore, AAT level should be interpreted with caution during infection or illness.

Common SERPINA1 Alleles

M allele: Normal, functional AAT production (Most common)

Z allele: Severely deficient AAT production (most common deficient allele)

S allele: Moderately deficient AAT production

I and F alleles: Rare variants with varying effects on AAT production and function

SERPINA1 Genotype: qPCR Genotyping test for the simultaneous detection of 4 allelic variants and their associated alleles found in the Alpha-1 Antitrypsin (AAT) codifying gene SERPINA1. PCR Genotyping only detects the 4 alleles targeted by the assay. AAT phenotype may be associated with other alleles.

AAT levels: AAT level is an immunoassay for AAT from peripheral blood. AAT is an acute phase protein so it can be increased during infection and inflammation.

These tests were developed by, and its performance characteristics determined by AlphaDetect LLC. This test is used for clinical purposes and should not be regarded as investigational or for research. It has not been cleared or approved by the US Food and Drug Administration. The FDA has determined that such clearance or approval is not necessary. This laboratory is CLIA certified to perform high complexity testing.



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Providers – Please share the Alpha-1 Foundation Resources below with patients

If your results show you are at risk for Alpha-1, the Alpha-1 Foundation wants to support you and your needs. The Alpha-1 Foundation is a non-profit organization committed to finding a cure for Alpha-1 and to improving the lives of people affected by Alpha-1 worldwide.

Through the Alpha-1 Foundation (A1F), you now have access to trusted information, compassionate support, and a community of people who understand what you're going through. While this diagnosis may feel overwhelming at first, there are clear next steps and A1F will help you navigate them at your own pace. At A1F, you'll find free educational resources and events, opportunities to connect with Alpha-1 experts, and a Patient Information Line staffed by knowledgeable professionals who can answer your questions and help you better understand your Alpha-1 diagnosis. Genetic counseling placeholder info here

Let A1F help you find the answers you need!

Visit Alpha1.org/answers or call 877-2-CURE-A1 (877-228-7321)