

# Alpha-1 Antitrypsin

## Synonyms

Alpha-1 antitrypsin

## Clinical Indication

Evaluation of chronic obstructive airway disease, emphysema (particularly occurring between 30-40 years of age) and in neonatal and adult liver disease where low values may have diagnostic importance. Family studies.

Total alpha-1 antitrypsin measured and referred for alpha-1 antitrypsin phenotyping if level is less than 1.2 g/L. If low alpha-1 antitrypsin has been picked up as an incidental finding from electrophoresis then a comment will be added to the report asking for the requesting clinician to discuss with the patient before phenotyping is carried out.

Phenotyping may be added on where the alpha 1 antitrypsin level is low.

## Part of Profile / See Also

## Request Form

Combined Pathology manual blood form or ICE request

## Availability / Frequency of Analysis

On request.

## Turnaround Time

Same day (weekdays only)

## Patient Preparation

## Sample Requirements

### Specimen Type

Serum or plasma

### Volume

2 ml (600µL in paediatric tubes)

### Container



Gold-top (SST) tube

### Paediatric tube



Paediatric orange-top (lithium heparin) tube

Plain serum samples may also be used

## Reference Range & Units

Age Range	Alpha-1 AT (g/L)
0 - 6 months	0.8 - 1.8
6 months - 1 year	1.1 - 2.0
1 - 5 years	1.1 - 2.2
5 - 10 years	1.4 - 2.3
10 - 15 years	1.2 - 2.0
Over 15 years	1.1 - 2.1

Reference: Protein Reference Unit

**Interferences****Interpretation & Clinical****Decision Value (if applicable)****References****Test code**

AAT

**Lab Handling**

Analysed from primary tube and stored at 4°C.