



Normal –Abnormal Values of Proteins

Normal Values

Total protein in Human blood serum: 6.4 to 8.3 g/dL

- Albumin: 3.5 to 5.0 g/dL
- Alpha-1 globulin: 0.1 to 0.3 g/dL
- Alpha-2 globulin: 0.6 to 1.0 g/dL
- Beta globulin: 0.7 to 1.2 g/dL
- Gamma globulin: 0.7 to 1.6 g/dL

What abnormal results mean

Increased alpha-1 globulin proteins may indicate:

- Chronic inflammatory disease (for example, rheumatoid arthritis, SLE)
- Acute inflammatory disease
- Malignancy

Increased alpha-2 globulin proteins may indicate:

- Acute inflammation
- Chronic inflammation

Increased beta globulin proteins may indicate:

- Hyperlipoproteinemia (for example, familial hypercholesterolemia)
- Estrogen therapy

Increased gamma globulin proteins may indicate:

- Multiple myeloma
- Chronic inflammatory disease (e.g., rheumatoid arthritis, SLE)
- Hyperimmunization
- Acute infection
- Waldenstrom's macroglobulinemia
- Chronic liver disease

Decreased total protein may indicate:

- Malnutrition
- Nephrotic syndrome
- Gastrointestinal protein-losing enteropathy

Decreased alpha-1 globulin proteins may indicate:

- Alpha-1 antitrypsin deficiency

Decreased alpha-2 globulin proteins may indicate:

- Hemolysis

Decreased beta globulin proteins may indicate:

- Congenital coagulation disorder
- Consumptive coagulopathy
- Disseminated intravascular coagulation