

# Protein, Total and Protein Electrophoresis

**CPT Code:** 84155, 84165

**Order Code:** 1395

**Includes:** Total Protein, Albumin, Alpha-1 Globulin, Alpha-2 Globulin, Beta-1 Globulin, Beta-2 Globulin, Gamma Globulin, Abnormal Protein Band 1 (if present), Abnormal Protein Band 2 (if present), Abnormal Protein Band 3 (if present)

**ABN Requirement:** No

**Specimen:** Serum

**Volume:** 2.0 mL

**Minimum Volume:** 1.0 mL

**Container:** Gel-barrier tube (SST, Tiger Top)

## Collection:

1. Collect and label sample according to standard protocols.
2. Gently invert tube 5 times immediately after draw. DO NOT SHAKE.
3. Allow blood to clot 30 minutes.
4. Centrifuge for 10 minutes.

**Fasting:** Overnight fasting is preferred

**Transport:** Store serum at 2°C to 8°C after collection and ship the same day per packaging instructions provided with the Cleveland HeartLab shipping box.

## Stability:

**Ambient (15-25°C):** 5 days

**Refrigerated (2-8°C):** 7 days

**Frozen (-20°C):** 28 days

**Causes for Rejection:** Specimens other than serum; grossly hemolyzed specimens; grossly lipemic specimens; improper labeling; samples not stored properly; samples older than stability limits

**Methodology:** Capillary Zone Electrophoresis (CZE), Spectrophotometry (SP)

**Turn Around Time:** 2 to 4 days

**Reference Range:**

## **Protein, Total, Serum:**

## **Protein Electrophoresis:**

**Clinical Significance:** Serum protein electrophoresis (SPE) is an analytical technique that provides separation of serum protein into six fractions: Albumin, Alpha-1, Alpha-2, Beta-1, Beta-2, and Gamma. Interpretation of elevation, decreased, or visual change in different fractions can be used as a diagnostic aid for a variety of different disease states and protein abnormalities, including monoclonal gammopathies (MG).

*The CPT codes provided are based on AMA guidelines and are for informational purposes only. CPT coding is the sole responsibility of the billing party. Please direct any questions regarding coding to the payer being billed.*