

**TEST CHANGE**

**Protein Electrophoresis, Serum**

0050640, SPEP

**Specimen Requirements:**

**Patient Preparation:**

**Collect:** Serum Separator Tube (SST).

**Specimen Preparation:** Separate from cells ASAP or within 2 hours of collection. Transfer 1.5 mL serum to an ARUP Standard Transport Tube. (Min: 1 mL)

**Transport Temperature:** Refrigerated.

**Unacceptable Conditions:** Plasma.

**Remarks:**

**Stability:** After separation from cells: Ambient: Unacceptable; Refrigerated: 1 week; Frozen: 1 month

**Methodology:** Quantitative Capillary Electrophoresis/Colorimetry

**Performed:** Sun-Sat

**Reported:** 1-3 days

**Note:** A copy of the graph will follow final report. For CSF electrophoresis, refer to Protein Electrophoresis, CSF (ARUP test code 0050590).

**CPT Codes:** 84155; 84165

**New York DOH Approval Status:** This test is New York DOH approved.

**Interpretive Data:**

Serum protein electrophoresis, when used as a screening test, is useful in the detection of various pathophysiologic states such as inflammation, protein loss, gammopathies, and other dysproteinemias. However, immunofixation electrophoresis (IFE) is a more sensitive technique for the identification of small M-proteins found in patients with amyloidosis, early or treated myeloma or macroglobulinemia, solitary plasmacytoma, or extramedullary plasmacytoma.

**Reference Interval:**

Test Number	Components	Reference Interval
	Total Protein, Serum	Refer to report. Reference intervals may vary based on instrumentation.
	Albumin	3.75-5.01 g/dL
	Alpha 1 Globulin	0.19-0.46 g/dL
	Alpha 2 Globulin	0.48-1.05 g/dL
	Beta Globulin	0.48-1.10 g/dL
	Gamma	0.62-1.51 g/dL
	<u>Monoclonal Protein</u>	<u>&lt;=0.00 g/dL</u>

Effective August 19, 2019