

PROTEIN
ELECTROPHORESIS,
SERUM

Orderable - PELS

Turnaround Time: 5 days

Alternate Name(s):

PELS
Monoclonal Protein Screen
SPE
Serum Protein Electrophoresis



Laboratory:
Clinical Immunology Lab



Requisition:
GENERAL LABORATORY
REQUISITION



Method of Analysis:
Sebia capillary
electrophoresis



Test Schedule:
Monday - Friday
0800-1600

Specimen:

5 mL Gold top Vacutainer tube

Light Green (Li-Heparin) or Lavender (EDTA) top tubes are **NOT** acceptable

Collection Information:


If possible, please avoid collecting blood during dialysis or from patients treated with heparin. Blood collected in the presence of heparin may cause the appearance of a fibrinogen band on electrophoresis, which will require further processing to distinguish from a monoclonal protein. If not possible to avoid heparin contamination, please call the Clinical Immunology Laboratory at x33097 to inform the laboratory that the patient has received heparin treatment.

Minimum volume of serum required is 2 mL.

Grossly hemolyzed samples are not acceptable.

Reference Ranges:

Albumin:	35.7 – 54.9 g/L
Alpha 1:	1.9 – 4.1 g/L
Alpha 2:	4.5 – 9.8 g/L
Beta 1:	3.0 – 6.0 g/L
Beta 2:	2.0 – 5.4 g/L
Gamma:	7.1 – 15.6 g/L



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Interpretive Comments:

Abnormal bands are identified by immunofixation electrophoresis.

Comments:

Based on consultation with the main users of the test, it has been decided to limit the collection frequency to ≥ 4 weeks for repeat testing. If serum protein electrophoresis is ordered and it has been < 28 days since the collection date of the last sample run, the test will be cancelled.

Storage and Shipment:

Store and ship serum refrigerated.