



MOHINDER KAUR

PID NO: P542000215346
Age: 73.0 Year(s) Sex: Female

Reference:

Sample Collected At:
DR VINAY KUMAR CHOPRA
KOS Diagnostic Lab, 6349/I, Nicholson
Road, Ambala Cantt, HRY 133001.
**Sample Processed At: Metropolis
Healthcare Ltd E-21, B1 Mohan Co-op
Ind Estate New Delhi-110044**

VID: 54203150173243

Registered On:
03/12/2020 04:01 PM
Collected On:
03/12/2020 4:01PM
Reported On:
06/12/2020 02:30 PM

Immunofixation- Qualitative, Serum*

(Serum)

Investigation

Observed Value

Electrophoretic Zone

IgG	<u>Present</u>
IgM	Absent
IgA	Absent
Kappa	<u>Present</u>
Lambda	Absent
M-Band	<u>Present</u>
Impression	IgG Kappa

Interpretation:

Bands in serum protein electrophoresis	Serum Immunofixation		Result
	Anti heavy chain antisera (IgG/ IgM/IgA)	Anti Light chain Kappa/Lambda	
Remark 1 1 band present	+	+	Presence of monoclonal
Remark 2 1 band present	-	+	1.Light chain disease,suggest urine Immunofixation 2.IgD or IgE disease 3.Multiple bands in lambda region indicates polymerised form
Remark 3 1 band present	+	-	Heavy chain disease.
Remark 4 Faint band present	Faint band	-	Cryoglobulin
Remark 5 2 band present	2 band with same or different anti-heavy chain sera	2 band with same different anti-light chain sera	1. Biclonal gammopathy 2. Paraprotein monomer/polymer of Immunoglobulins).

Dr. Reema Agrawal
MD (Pathology)



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<u>Investigation</u>	<u>Observed Value</u>	<u>Unit</u>	<u>Biological Reference Interval</u>
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Direct detection at 200 nm in capillaries yields relative concentrations (percentages) of individual protein zones.

Remarks :

1. In following conditions serum Immunofixation is required to confirm monoclonal gammopathy or to differentiate monoclonal and polyclonal disorders.
- (A) A well defined 'M' band
 - (B) Non-discrete bands..
 - (C) Chronic inflammatory pattern (decreased Albumin, increased Alpha, increased Gamma region), which may mask the monoclonal band.
 - (D) Isolated increase in any region, with otherwise normal pattern.

2. SPE- Distortions/ Non-Discrete bands:

Distortions in Serum Protein Electrophoresis (SPE) usually affect curves of the gamma, beta, and alpha-2 peaks. Distortions are subtle, non-discrete bands which cannot be quantified & therefore not plotted on the graphs. These could be seen in the following situations:

- a) Patients on therapy for Multiple myeloma.
- b) Distortions at the point of sample application can be especially problematic when one is dealing with cryoglobulins (often precipitates at the origin).
- c) Monoclonal gammopathies involving any of beta-migrating immunoglobulins (produce subtle distortion of the transferrin or C3 band)
- d) Subtle distortions in the beta & gamma regions may indicate towards Ig D / Ig E gammaopathies.

Method : Capillary Electrophoresis

