

Patient Name	: Ms Dummy	Bill Date	: Feb 03, 2024, 08:08 PM
DOB/Age/Gender	: 57 Y/Female	Sample Collected	: Feb 04, 2024, 08:47 AM
Patient ID / UHID	: XXX	Sample Received	: Feb 04, 2024, 01:35 PM
Referred By	: Dr.	Report Date	: Feb 07, 2024, 10:41 AM
Sample Type	: Serum	Report Status	: Final Report
Barcode No	: XXX		

Test Description	Value(s)	Unit(s)	Reference Range
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SPECIAL ASSAY REPORT

Protein Electrophoresis, Serum

Total Protein Method : Biuret (Photometric)	7.40	g/dL	6.4 - 8.3
Serum Albumin	4.40	g/dL	3.57 - 5.42
Alpha 1 Globulin	0.29	g/dL	0.19 - 0.40
Alpha 2 Globulin	0.72	g/dL	0.45 - 0.96
Beta 1 Globulin	0.47	g/dL	0.30 - 0.59
Beta 2 Globulin	0.36	g/dL	0.20 - 0.53
Gamma Globulin	1.15	g/dL	0.71 - 1.54
Albumin, Globulin Ratio	1.47		1.1-2.2
M Band	NO MONOCLONAL BAND SEEN		Absent

Note:-Please correlate clinically.

Interpretation:

Method : Capillary Electrophoresis.

Interpretation :

1. Serum protein electrophoresis is commonly used to identify multiple myeloma & related disorders.
2. Electrophoresis is a method of separating proteins based on their physical properties & the pattern is dependant on the fractions of 2 types of protein: Albumin & Globulin (alpha1, alpha2, beta & gamma).

Components	Major Components	Interferences
Albumin	Albumin	Lipoproteins, Drugs, Bilirubin, Radiological contrast
Alpha1 - globulins	α -1 antitrypsin, α -1 acid glycoprotein	-
Alpha2 - globulins	α -2 macroglobulin, haptoglobin	Haptoglobin - haemoglobin complex
Beta globulins	Transferrin, β -lipoprotein, IgA, IgM & sometimes IgG with complement proteins – C3 & C4	Fibrinogen
Gamma globulins	IgG, IgA, IgM, IgD, IgE	CRP

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.

Sohini Sengupta

Dr. Sohini Sengupta
MD (Cl Biochemistry), DNB,
FNB (Lab Medicine)
Medical Laboratory Director
HOD (Biochemistry & Special Assays)



Booking Centre :- HOME COLLECTION - NOIDA - F10166

Processing Lab :- Redcliffe Lifetech Pvt. Ltd., H-55, Sector-63, Noida, Uttar Pradesh - 201301

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All Lab results are subject to clinical interpretation by qualified medical professional and this report is not subject to use for any medico-legal purpose.

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(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.

Dummy Report

Sohini Sengupta

Dr. Sohini Sengupta
 MD (Cl Biochemistry), DNB,
 FNB (Lab Medicine)
 Medical Laboratory Director
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Name : Ms Dummy

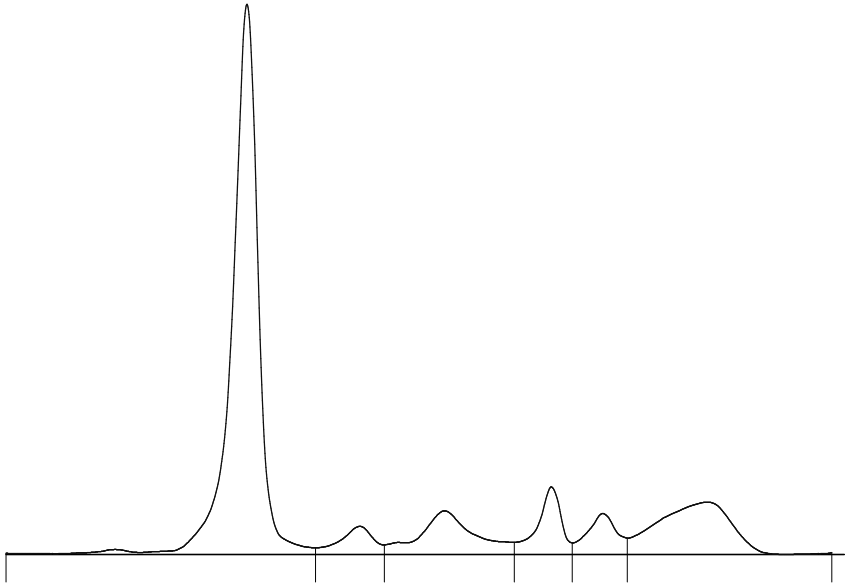
Date: 5/2/2024

Sex : F

ID: XXX

Age : 57

Protein electrophoresis



Fractions	%	Ref. %	Conc.	Ref. Conc.
Albumin	59.5	55.8 - 66.1	4.40	3.57 - 5.42
Alpha 1	3.9	2.9 - 4.9	0.29	0.19 - 0.40
Alpha 2	9.7	7.1 - 11.8	0.72	0.45 - 0.96
Beta 1	6.4	4.7 - 7.2	0.47	0.30 - 0.59
Beta 2	4.9	3.2 - 6.5	0.36	0.20 - 0.53
Gamma	15.6	11.1 - 18.8	1.15	0.71 - 1.54

T. P.: 7.4 g/dL

A/G Ratio: 1.47

Disclaimer: This is a sample report. The method and reference range in the actual report might vary as per lab accreditation or certification and equipments where sample is processed.