

Pathcare Labs Pvt. Ltd.

Central Laboratory - Sy No.34,Cheeriyal (V), Keesara (M), Greater Hyderabad-501301 Ph:- 9533300600

BARCODED NETWORKED ACCREDITED

REPORT					
Patient Name	: Mrs. JULEKHA	Reg. No. : 00261912050041			
Age and Sex	: 37 Yrs / Female	PCC Code : PCL-HR-075			
Referring Doctor	: KOS LAB AMBALA	Sample Drawn Date : 05-Dec-2019 11:00 AM			
Referring Customer	: KOS LAB AMBALA	Registration Date : 07-Dec-2019 05:54 AM			
Vial ID	: J0303405	Report Date : 07-Dec-2019 03:49 PM			
Sample Type	: Serum	Report Status : Final Report			
Client Address	: 1936 , NEW HOUSING BOARD COLON	Y , NEAR BADA PARK. PANIPAT			

DEDADT -

CLINICAL BIOCHEMISTRY							
Test Name	Obtained Value	Units	Bio. Ref. Intervals(Age/Gender specific)				
*Free Kappa(Light Chain) - Serum	5.07	g/L	1.38 - 3.75				
*Free lambda(Light chain)	2.70	g/L	0.93 - 2.42				
*Free kappa/Lambda Ratio	1.88		1.29-2.61 Please note the change in reference range				

Comments:

The molecular structure of Immunoglobulin (Ig) consists of heavy chains and light chains. Five kinds of Igs have different heavy chains but have the same two kinds of light chains: Kappa and Lambda. The ratio of Kappa and Lambda is approximately 2:1. Abnormal M protein appears in sera of MM(Multiple Myeloma) patients.
Because the proliferation is monoclonal and malignant, it exhibits only the increase of one type of light chains in blood or urine is very important diagnosis, typing and monitoring of MM

Because the proliferation is monoclonal and malignant, it exhibits only the increase of one type of light chains in blood or urine is very important diagnosis, typing and monitoring of MM patients.

• In case that one type of light chain in blood or urine increases abnormally while the other type decreases and thus the ratio Kappa and Lambda (2:1) is changed , diagnosis as MM should be considered.

• Light chains may also increase in patients who suffer from autoimmune diseases infection tumor, acute and chronic hepatitis, hepatic cirrhosis and so on, however in these cases the kappa and lambda increase simultaneously. Simultaneous increase of Kappa and Lambda chains is also observed in urine of patients suffering from nephropathy and diabetes.

Method : Immunoturbidometry

Result rechecked and verified for abnormal cases

*** End Of Report ***



and Salegenarov

DR. P SATYANARYANA MD BIOCHEMISTRY

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Note: If the test results are alarming or unexpected, Client is advised to contact the laboratory immediately for possible remedial action. Note : This report is subject to the terms and conditions overleaf. Partial Reproduction of this report is not Permitted



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Client Address	: 1936 , NEW HOUSING BOARD COLON	(, NEAR BADA PARK. PANIPAT			

DEDADT -

CLINICAL BIOCHEMISTRY							
Test Name	Obtained Value	Units	Bio. Ref. Intervals(Age/Gender specific)				
PDF Attached							
Protein Electrophoresis (Serum)							
Albumin Fraction	1.54	g/dl	3.20 - 5.00				
Alpha 1-globulin	0.59	g/dl	0.10 - 0.40				
Alpha 2-globulin	1.28	g/dl	0.60 - 1.00				
Beta globulin	0.21	g/dl	0.60 - 1.30				
Gamma-globulin	1.88	g/dl	0.70 - 1.50				
Protein,Total	5.50	g/dl	6.0 - 8.0				
A/G Ratio	0.39		1.0 - 2.1				
Myeloma Band (<mark>M-Ban</mark> d)	0.0	g/dl	0.0				
Impression	Albumin decreased with raised Alpha and Gamma globulins.						
Advise	Please correlate clinically.						

Comments:

A homogeneous spike-like peak in a focal region of the gamma-globulin zone indicates a monoclonal gammopathy. Monoclonal gammopathies are associated with a clonal process that is
malignant or potentially malignant, including multiple myeloma, Waldenström's macroglobulinemia, solitary plasmacytoma, smoldering multiple myeloma, monoclonal gammopathy of
undetermined significance, plasma cell leukemia, heavy chain disease, and amyloidosis.

 M-protein (in the gamma region) level greater than 3 g/dL should be interpreted along with other radiologic and haematological findings to arrive at a diagnosis of Multiple myeloma and must not be considered in isolation. Occasionally M protein may appear as a narrow spike in the beta or alpha2 regions also. Up to one fifth of patients with Myeloma may have an M-protein spike of less than 1 g /dL.

Hypogammaglobulinemia on serum protein electrophoresis occurs in about 10% of patients with multiple myeloma who do not have a serum M-protein spike. Most of these patients have a
large amount of Bence Jones protein (monoclonal free kappa or lambda chain) in their urine, wherein urine protein electrophoresis should be performed. Monoclonal gammopathy is present
in up to 8 percent of healthy geriatric patients.

Method : Gel Electrophoresis

Correlate Clinically.

Result rechecked and verified for abnormal cases Laboratory is NABL Accredited

*** End Of Report ***







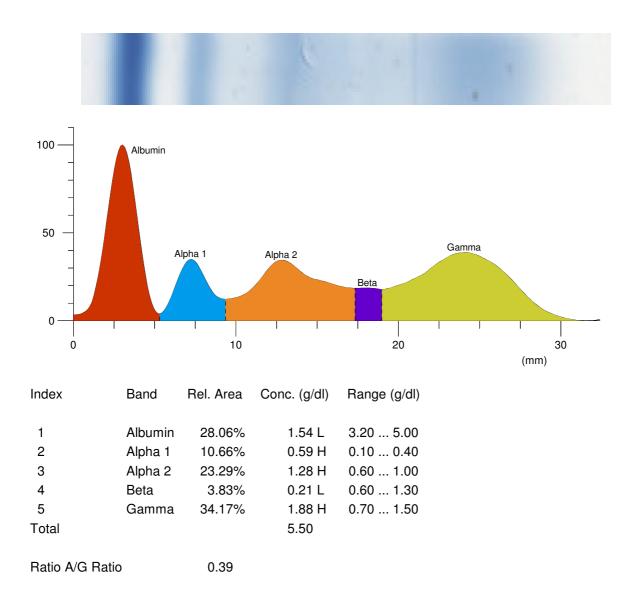
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PATHCARE LABS Protein Electrophoresis Report

Patient Name Age / Sex Vail ID Total Protein Mrs. JULEKHA 37 YRS/Female J0303405 5.50 (g/dl)

Measurement Date: 07-12-2019 15:00:10



Comments

Albumin decreased with raised Alpha and Gamma globulins. Please correlate clinically.