

**REPORT**

Patient Name	: Mr. DR AZAD	Reg. No.	: 00261812070021
Age and Sex	: 45 Yrs / Male	PCC Code	: PCL-HR-065
Referring Doctor	: NA	Sample Drawn Date	: 06-Dec-2018 03:00 PM
Referring Customer	: KOS LAB AMBALA	Registration Date	: 08-Dec-2018 03:57 PM
Vial ID	: H1287251	Report Date	: 09-Dec-2018 12:49 PM
Sample Type	: WB-EDTA	Report Status	: Final Report
Client Address	: Shop No.21, Near Mittal Skin Clinic, Jarnally Colony, Karnal, Haryana.		

**CHROMATOGRAPHY**

Test Name	Obtained Value	Units	Bio. Ref. Intervals(Age/Gender specific)
*Lead	0.59	µg/dL	<25

## Comments:

- **Sample processed on Agilent GTA 120 Zeeman Tube Atomizer.**
- Lead is the most ubiquitous toxic metal detectable in practically all phases of the inert environment and in all biological systems. Industrial exposure to lead is seen in industries manufacturing lead containing paints & ceramic glazes, batteries, water pipes & ammunition. Major exposure of the general population is through food & water. Lead containing toys & paints are a primary source of lead exposure in children. Centre for Disease Control ( CDC) recommends universal screening of children from 6 months of age. Acute toxicity is uncommon as compared to chronic toxicity leading to intellectual deficit and lead induced anemias in children.

REFERENCE GROUP	REFERENCE RANGE ( ug/dL)
Acceptable for Industrial exposure	< 50
Toxicity	>=100

Method : AAS-Graphite Furnace-Zeeman


**DR. P SATYANARYANA**  
**MD BIOCHEMISTRY**


**REPORT**

Patient Name	: Mr. DR AZAD	Reg. No.	: 00261812070021
Age and Sex	: 45 Yrs / Male	PCC Code	: PCL-HR-065
Referring Doctor	: NA	Sample Drawn Date	: 06-Dec-2018 03:00 PM
Referring Customer	: KOS LAB AMBALA	Registration Date	: 08-Dec-2018 05:11 AM
Vial ID	: H1287252	Report Date	: 08-Dec-2018 03:32 PM
Sample Type	: Serum	Report Status	: Final Report
Client Address	: Shop No.21, Near Mittal Skin Clinic, Jarnally Colony, Karnal, Haryana.		

**CLINICAL BIOCHEMISTRY**

Test Name	Obtained Value	Units	Bio. Ref. Intervals(Age/Gender specific)
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[PDF Attached](#)
**Protein Electrophoresis (Serum)**

Albumin Fraction	3.72	g/dl	3.20 - 5.00
Alpha 1-globulin	0.28	g/dl	0.10 - 0.40
Alpha 2-globulin	0.89	g/dl	0.60 - 1.00
Beta globulin	0.82	g/dl	0.60 - 1.30
Gamma-globulin	1.09	g/dl	0.70 - 1.50
Protein, Total	6.80	g/dl	6.0 - 8.0
A/G Ratio	1.21		1.0 - 2.1
Myeloma Band (M-Band)	No Monoclonal band observed.		
Impression	Suggestive of Normal Pattern.		
Advise	Please correlate clinically.		

**Comments:**

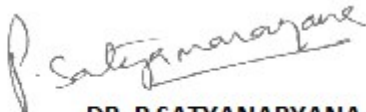
- A homogeneous spike-like peak in a focal region of the gamma-globulin zone indicates a monoclonal gammopathy. Monoclonal gammopathies are associated with a clonal process that is malignant or potentially malignant, including multiple myeloma, Waldenström's macroglobulinemia, solitary plasmacytoma, 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.

Laboratory is NABL Accredited

\*\*\* End Of Report \*\*\*


  
**DR. P SATYANARYANA**  
**MD BIOCHEMISTRY**

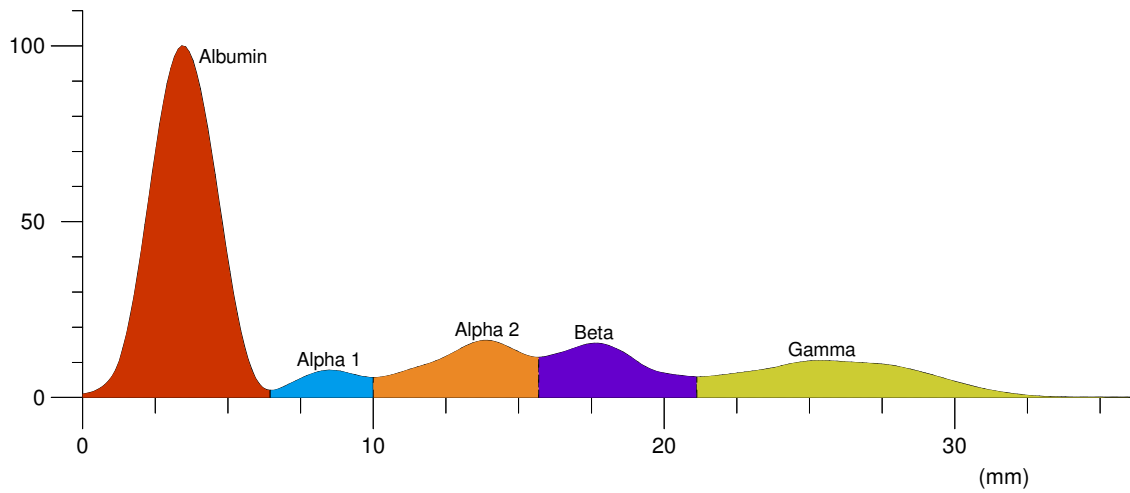
# PATHCARE LABS

## Protein Electrophoresis Report

Patient Name  
Age / Sex  
Vail ID  
Total Protein

Mr. DR AZAD  
45 YRS/Male  
H1287252  
6.80 (g/dl)

Measurement Date: 08-12-2018 15:32:26



Index	Band	Rel. Area	Conc. (g/dl)	Range (g/dl)
1	Albumin	54.75%	3.72	3.20 ... 5.00
2	Alpha 1	4.11%	0.28	0.10 ... 0.40
3	Alpha 2	13.08%	0.89	0.60 ... 1.00
4	Beta	12.09%	0.82	0.60 ... 1.30
5	Gamma	15.97%	1.09	0.70 ... 1.50
Total			6.80	

Ratio A/G Ratio                      1.21

**Comments**

Suggestive of Normal Pattern. Please correlate clinically.

**Analyst Sign**

**Verified By**