

Case ID : 26010048302
 Patient Name : Mr. MOHAMMED AZHARUDDIN
 Age/DOB/Sex : 29 Years / / Male
 Hospital Name : Glenfield Mallareddy Brain Heart Hospital,
 Hyderabad
 Physician Name : DR NADEEM AHMED
 Regn Date : 26-Feb-2026 08:58
 Collection On : 25-Feb-2026 02:01
 Reported On : 26-Feb-2026 12:08
 Process AT : CORE-Gurugram.
 Ref no :
 Sample Type : Serum
 Report Status : Final



MC-2256



UNIQUE PATIENT ID: 755743

| Parameters | Result | Unit | Biological Reference Interval |
|--|-----------------|------|-------------------------------|
| Lactate Dehydrogenase (LDH) | | | |
| Lactate Dehydrogenase (LDH) <small>MC-2256 Enzymatic Method</small> | H 340.00 | U/L | 0-250 |

Comments

1. Marked elevations in lactate dehydrogenase (LDH) activity can be observed in megaloblastic anemia, untreated pernicious anemia, Hodgkin disease, abdominal and lung cancers, severe shock, and hypoxia.
2. Moderate to slight increases in LDH levels are seen in myocardial infarction (MI), pulmonary infarction, pulmonary embolism, leukemia, hemolytic anemia, infectious mononucleosis, progressive muscular dystrophy (especially in the early and middle | stages of the disease), liver disease, and renal disease.
3. Increased levels of the enzyme are found in about one-third of patients with renal disease, especially those with tubular necrosis or pyelonephritis. However, these elevations do not correlate well with proteinuria or other parameters of renal disease.

References

- Tietz Textbook of clinical chemistry. fourth edition. Edited by CA Burtis, ER Ashwood, DE Bruns, Philadelphia, WB Saunders Company, 2006, pp 601-603

Dr. Shivani Sharma
 DCP, DNB, FRCPath
 (London)

Dr. Onkar Nath Tiwari
 PhD. Medical Biochemistry



MC-2256



UNIQUE PATIENT ID: 755743

Case ID : 26010048302
 Patient Name : Mr. MOHAMMED AZHARUDDIN
 Age/DOB/Sex : 29 Years / / Male
 Hospital Name : Glenfield Mallareddy Brain Heart Hospital, Hyderabad
 Physician Name : DR NADEEM AHMED
 Regn Date : 26-Feb-2026 08:58
 Collection On : 25-Feb-2026 02:01
 Reported On : 26-Feb-2026 20:23
 Process AT : CORE-Gurugram.
 Ref no :
 Sample Type : Serum
 Report Status : Final

| Parameters | Result | Unit | Biological Reference Interval |
|--|----------------------------------|-------|-------------------------------|
| Protein Electrophoresis | | | |
| Total Proteins <i>Biuret method</i> | 7.59 | | |
| Albumin <i>Gel Electrophoresis</i> | 3.68 | g/dL | 3.57-5.42 |
| Alpha 1 Globulin <i>Gel Electrophoresis</i> | 0.33 | g/dL | 0.19-0.40 |
| Alpha 2 Globulin <i>Gel Electrophoresis</i> | H 1.15 | g/dL | 0.45-0.96 |
| Beta Globulin <i>Gel Electrophoresis</i> | H 0.95 | g/dL | 0.30-0.59 |
| Gamma Globulin <i>Gel Electrophoresis</i> | 1.48 | g/dL | 0.71-1.54 |
| Albumin/Globulin Ratio <i>Calculated</i> | L 0.94 | Ratio | 1.0-2.2 |
| "M" Band | Absent | | Absent |
| INTERPRETATION | Monoclonal ("M") spike not seen. | | |

COMMENTS

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

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

- The following conditions require serum immunofixation to differentiate monoclonal and polyclonal disorders.
- (A) A well defined "M" band (B) Faint band. (C) Chronic inflammatory pattern (decreased Albumin, increased Alpha, increased Gamma region), which may mask the monoclonal band. (D) Isolated increase in any region, with an otherwise normal pattern.
- Shouldering of albumin peak along anodal or cathodal side may be seen with lipoproteins, drugs, bilirubin or radiological dyes.

Shivani

Dr. Shivani Sharma
 DCP, DNB, FRCPath
 (London)
 Reg. No. 1906

hemaCORE

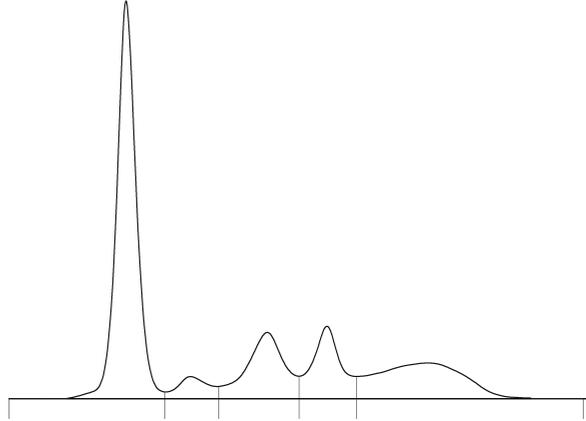


MC-2256



UNIQUE PATIENT ID: 755743

Case ID : 26010048302
Patient Name : Mr. MOHAMMED AZHARUDDIN
Age/DOB/Sex : 29 Years / / Male
Hospital Name : Glenfield Mallareddy Brain Heart Hospital,
Hyderabad
Physician Name : DR NADEEM AHMED
Regn Date : 26-Feb-2026 08:58
Collection On : 25-Feb-2026 02:01
Reported On : 26-Feb-2026 20:23
Process AT : CORE-Gurugram.
Ref no :
Sample Type : Serum
Report Status : Final



Serum Protein Electrophoresis

Total Protein:- **7.59** g/dl

A/G Ratio: **0.94**



Shivani

Dr. Shivani Sharma

DCP, DNB, FRCPath

(London)

Reg. No. 1906



Scan to Connect

If you have any questions about this report or would like to have a conversation about the test results, please feel free to reach out to us at

+91 88828 99999 or **info@corediagnostics.in**

CONDITIONS OF REPORTING

1. The tests are carried out in the lab with the presumption that the specimen belongs to the patient named or identified in the bill/test request form.
2. The test results relate specifically to the sample received in the lab and are presumed to have been generated and transported per specific instructions given by the physicians/laboratory.
3. The reported results are for information and are subject to confirmation and interpretation by the referring doctor.
4. Some tests are referred to other laboratories to provide a wider test menu to the customer.
5. CORE Diagnostics Pvt. Ltd. shall in no event be liable for accidental damage, loss, or destruction of specimen, which is not attributable to any direct and mala fide act or omission of CORE Diagnostics Pvt. Ltd. or its employees. Liability of CORE Diagnostics Pvt. Ltd. for deficiency of services, or other errors and omissions shall be limited to fee paid by the patient for the relevant laboratory services.

This report is the property of CORE Diagnostics. The information contained in this report is strictly confidential and is only for the use of those authorized. If you have received this report by mistake, please contact CORE Diagnostics

CORE Diagnostics (Central Reference Lab) - Gurugram

406, Udyog Vihar, Phase III, Gurugram, Haryana - 122016
T.: +91 8882899999

CORE Diagnostics Satellite Lab - Hyderabad

S. No.155, Mahalakshmi Trade Center, 2nd Floor, Thokatta -Village,
Diamond Point Road, Bowenpally, Secunderabad, Telangana-500009
T.: +91 9100122608