

**Laboratory Investigation Report**

|              |                             |                      |   |
|--------------|-----------------------------|----------------------|---|
| Patient Name | : Mr. Krishna Pathak        | Centre               | : 5656 - Alexis Multi Speciality Hospital Pvt Ltd |
| Age/Gender   | : 18 Y 10 M 26 D /M         | OP/IP No/UHID        | : OP/AXCS274485/                                  |
| MaxID/Lab ID | : ALEX.277444/4940082502223 | Collection Date/Time | : 07/Aug/2025 09:49AM                             |
| Ref Doctor   | : SELF                      | Reporting Date/Time  | : 07/Aug/2025 01:49PM                             |

**Clinical Biochemistry**

SIN No:AXIN84785

**Fasting Blood Sugar (Glucose) , (FBS)\*, Fluoride Plasma**

| Date              |                    | Unit  | Bio Ref Interval |
|-------------------|--------------------|-------|------------------|
|                   | <b>07/Aug/2025</b> |       |                  |
|                   | <b>09:49AM</b>     |       |                  |
| Glucose (Fasting) | 88                 | mg/dL | 70 - 110         |
| Hexokinase        |                    |       |                  |

Test Performed at :5656 - Alexis Multi Speciality Hospital Pvt Ltd, 1313 Survey No .232, Mankapur Square,Nagpur

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| Ref Doctor   | : SELF                      | Reporting Date/Time  | : 07/Aug/2025 01:56PM                             |

**Clinical Biochemistry**


SIN No:AXIN84785

**HbA1c (Glycated/ Glycosylated Hemoglobin) Test\*, EDTA**

HPLC

| Date   | 07/Aug/2025<br>09:49AM | Unit                  | Bio Ref Interval |
|--|------------------------|-----------------------|------------------|
| Glycosylated Haemoglobin(Hb A1c)                 | 4.90                   | %                     |                  |
| Glycosylated Haemoglobin(Hb A1c) IFCC            | 30.04                  | mmol/mol <sup>2</sup> | 23.1-42.8        |
| Average Glucose Value For the Last 3 Months      | 93.93                  |                       |                  |
| Average Glucose Value For the Last 3 Months IFCC | 5.20                   | mmol/L                |                  |

**Bio Ref Interval :**

Non-diabetic: &lt;=5.6

Pre-diabetic :5.7-6.4

Diabetic : &gt;=6.5

- HbA1c is used for monitoring diabetic control. It reflects the estimated average glucose (eAG).
- HbA1c has been endorsed by clinical groups & ADA (American Diabetes Association) guidelines 2018, for diagnosis of diabetes using a cut-off point of 6.5%.
- Trends in HbA1c are a better indicator of diabetic control than a solitary test.
- Low glycated haemoglobin (below 4%) in a non-diabetic individual are often associated with systemic inflammatory diseases, chronic anaemia (especially severe iron deficiency & haemolytic), chronic renal failure and liver diseases. Clinical correlation suggested.
- To estimate the eAG from the HbA1C value, the following equation is used:  $eAG(mg/dl) = 28.7 * A1c - 46.7$
- Interference of Haemoglobinopathies in HbA1c estimation.
  - For HbF > 25%, an alternate platform (Fructosamine) is recommended for testing of HbA1c.
  - Homozygous hemoglobinopathy is detected, fructosamine is recommended for monitoring diabetic status
  - Heterozygous state detected (D10/ turbo is corrected for HbS and HbC trait).
- In known diabetic patients, following values can be considered as a tool for monitoring the glycemic control. Excellent Control - 6 to 7 %, Fair to Good Control - 7 to 8 %, Unsatisfactory Control - 8 to 10 % and Poor Control - More than 10 %.

Note: Haemoglobin electrophoresis (HPLC method) is recommended for detecting hemoglobinopathy

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**Clinical Biochemistry**


SIN No:AXIN84785

**Kidney Function Test (KFT) Profile with Calcium, Uric Acid\*, Serum**

| Date                           | 07/Aug/2025<br>09:49AM | Unit   | Bio Ref Interval |
|--------------------------------|------------------------|--------|------------------|
| Urea                           | 19.0                   | mg/dL  | 19 - 45          |
| Calculated                     |                        |        |                  |
| Blood Urea Nitrogen            | 8.88                   | mg/dL  | 9 - 21           |
| Enzymatic Rate (Urease)        |                        |        |                  |
| Creatinine                     | 0.88                   | mg/dL  | 0.50 - 1.10      |
| Alkaline picrate kinetic       |                        |        |                  |
| eGFR by MDRD                   | 111.69                 |        |                  |
| eGFR by CKD EPI 2021           | 126.22                 |        |                  |
| Bun/Creatinine Ratio           | 10.09                  |        |                  |
| Calculated                     |                        |        |                  |
| Uric Acid                      | 5.5                    | mg/dL  | 2.9 - 7.0        |
| Uricase UV                     |                        |        |                  |
| Calcium (Total)                | 10.22                  | mg/dL  | 8.5 - 9.7        |
| O - Cresolphthalein Complexone |                        |        |                  |
| Sodium                         | 142.0                  | mmol/L | 135 - 145        |
| ISE Indirect                   |                        |        |                  |
| Potassium                      | 5.38                   | mmol/L | 3.5 - 5.0        |
| ISE Indirect                   |                        |        |                  |
| Chloride                       | 102                    | mmol/L | 98 - 107         |
| ISE Direct                     |                        |        |                  |
| Bicarbonate                    | -                      |        |                  |

Kindly correlate with clinical findings

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

**Dr. Sadique Ali**  
MD Pathology & Consultant Histopathology  
MMC Reg No. 077172

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| Test Name | Clinical Pathology<br>Result | Unit | Bio Ref Interval<br>SIN No:AXIN84785 |
|-----------|------------------------------|------|--------------------------------------|
|-----------|------------------------------|------|--------------------------------------|

**Urine Routine Analysis\***

|  |             |  |               |
|--|-------------|--|---------------|
| Colour<br>Physical Examination             | PALE YELLOW |  | GREY-OPALESCE |
| Appearance<br>Physical Examination         | Clear       |  | Clear         |
| Specific Gravity<br>Polymeric Ion Exchange | 1.010       |  | 1.001 - 1.035 |

**CHEMICAL**

|   |          |        |           |
|---|----------|--------|-----------|
| PH<br>Double Indicator                    | 8.0      |        | 4.6 - 8.0 |
| Glucose Urine<br>GOD POD                  | Negative | mg/dL  | < 30      |
| Protein<br>Tetrabromphenol blue method    | Negative | mg/dL  | < 10      |
| Ketones<br>Acetoacetic acid               | Negative | mg/dL  | < 5       |
| Bilirubin<br>Diazotized                   | Negative | mg/dL  | Negative  |
| Urobilinogen<br>Ehrich reaction           | Normal   | mg/dL  | <1.00     |
| Blood<br>PERIXIDASE                       | Negative | rbc/ul | < 10      |
| Nitrite<br>P-arsanilic acid               | Negative | mg/dL  | Negative  |
| Leukocytes<br>Naphthol AS-D chloroacetate | Negative | wbc/ul | < 25      |

**Microscopic Examination**

|                                |            |      |       |
|--------------------------------|------------|------|-------|
| WBC<br>Microscopy              | Occasional | /HPF | 0 - 5 |
| RBCs<br>Microscopy             | Nil        | /HPF | 0 - 3 |
| Epithelial Cells<br>Microscopy | 1 - 2      | /HPF |       |
| Crystals                       | Nil        |      |       |
| AMORPHOUS URATES               | Nil        |      |       |
| Cast                           | Nil        |      |       |
| Bacteria                       | Nil        |      |       |
| OTHER                          | Nil        |      |       |

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| Clinical Pathology |        |      |                  |
|--------------------|--------|------|------------------|
| Test Name          | Result | Unit | Bio Ref Interval |



Kindly correlate with clinical findings

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



**Dr Srushtee Jibhkate**  
MBBS MD, Consultant Biochemistry  
MMC Reg. No. 2007051487.

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**Immunoassay**


SIN No:AXIN84785

**Total-Thyroid Profile ( T3,T4 & TSH)\*, Serum**

| Date                     | 07/Aug/2025<br>09:49AM | Unit   | Bio Ref Interval |
|--------------------------|------------------------|--------|------------------|
| T3 (Total)<br>Flash CLIA | 1.04                   | ng/mL  | 0.86 - 1.92      |
| T4 (Total)<br>Flash CLIA | 9.2                    | ug/dL  | 5.5 - 11.1       |
| TSH<br>Flash CLIA        | 2.15                   | uIU/ml | 0.48 - 4.17      |

**Biological reference range for TSH in Premature Infants**

1st week of life: 0.20-27.90  $\mu$ IU/mL

**Biological reference range for TSH in Pregnancy**

First Trimester : 0.26-2.66  $\mu$ IU/mL

Second Trimester : 0.55-2.73  $\mu$ IU/mL

Third Trimester : 0.43-2.91  $\mu$ IU/mL

**Interpretation for TSH, T3 and T4:**

- To quantitate circulating levels of TSH is important in evaluating thyroid function. The measurement of TSH is used as an aid in the diagnosis of thyroid and pituitary disorders.
- Triiodothyronine (T3) is a hormone that originates from direct thyroid synthesis and secretion and from peripheral conversion of T4 to T3. Whereas, Thyroxine (T4) is a hormone synthesized and secreted by the thyroid gland, and plays an important role in regulating metabolism.
- Heterophilic antibodies in human serum can react with reagent immunoglobulins, interfering with in vitro immunoassays. Patients routinely exposed to animals or to animal serum products can be prone to this interference and anomalous values can be observed. Additional information may be required for diagnosis.
- The anticonvulsant drug phenytoin may interfere with total and free T4 levels due to competition for TBG binding sites.

**Reference:**

- ADVIA Centaur CP kits insert.

**Vitamin B12 (Vit- B12), (Cyanocobalamin)\*, Serum**

| Date                      | 07/Aug/2025<br>09:49AM | Unit  | Bio Ref Interval |
|---------------------------|------------------------|-------|------------------|
| Vitamin B12<br>Flash CLIA | 216                    | pg/mL | 211 - 911        |

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**Immunoassay**

SIN No:AXIN84785

**Vitamin D, 25 - Hydroxy Test (Vit. D3)\*, Serum**

| Date                          | 07/Aug/2025<br>09:49AM | Unit  | Bio Ref Interval |
|-------------------------------|------------------------|-------|------------------|
| 25 Hydroxy, Vitamin D<br>LOCI | 10.0                   | ng/mL |                  |

**Ref Range** 0 - < 20 DEFICIENT;  
20 - < 30 INSUFFICIENT ;  
30 - 100 SUFFICIENT

**Prostate Specific Antigen (P.S.A.) - Total\*, Serum**

| Date                                    | 07/Aug/2025<br>09:49AM | Unit  | Bio Ref Interval |
|---|------------------------|-------|------------------|
| Prostate Specific Antigen<br>Flash CLIA | 0.64                   | ng/mL | < 4.0            |

Kindly correlate with clinical findings

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



**Dr. Sadique Ali**  
MD Pathology & Consultant Histopathology  
MMC Reg No. 077172

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**Hematology**

SIN No:AXIN84785

**ESR ,EDTA**

| Date                      | 07/Aug/2025<br>09:49AM | Unit  | Bio Ref Interval |
|---------------------------|------------------------|-------|------------------|
| ESR (Modified Westergren) | 14                     | mm/hr | <15              |

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MC- 7082


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**Hematology**


SIN No:AXIN84785

**CBC (Complete Blood Count), EDTA**

| Date  | 07/Aug/2025<br>09:49AM | Unit         | Bio Ref Interval |
|---|------------------------|--------------|------------------|
| Haemoglobin   | 16.2                   | g/dl         | 13.5-17.5        |
| Packed Cell, Volume<br>Calculated                   | 50.6                   | %            | 38.8 -50         |
| Total Leucocyte Count (TLC)<br>Electrical Impedance | 6720                   | /cumm        | 3500 -10500      |
| RBC Count<br>Electrical Impedance                   | 5.09                   | million/cumm | 4.3 -5.72        |
| MCV<br>Electrical Impedance                         | 99.4                   | fL           | 81.2 -95.1       |
| MCH<br>Calculated                                   | 31.9                   | pg           | 27-33            |
| MCHC<br>Calculated                                  | 32.1                   | g/dL         | 32 -36           |
| Platelet Count<br>Electrical Impedance              | 257000                 | /cumm        | 150000-450000    |
| MPV<br>Calculated                                   | 7.6                    | fl           | 7.8-11.2         |
| RDW<br>Calculated                                   | 13.6                   | %            | 11.9-15.5        |

**Differential Cell Count**

|                                       |    |   |       |
|---------------------------------------|----|---|-------|
| Neutrophils<br>VCS / Light Microscopy | 63 | % | 40-70 |
| Lymphocytes<br>VCS / Light Microscopy | 32 | % | 20-40 |
| Monocytes<br>VCS / Light Microscopy   | 4  | % | 2-10  |
| Eosinophils<br>VCS / Light Microscopy | 1  | % | 1-6   |
| Basophils<br>VCS / Light Microscopy   | 0  | % | 0.2-1 |

Kindly correlate with clinical findings

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



**Dr Srushtee Jibhakte**  
MBBS MD, Consultant Biochemistry  
MMC Reg. No. 2007051487.

**Results to follow:**

Hepatitis B Surface Antigen, Serum : Sample not yet received, Lipid Profile, Serum : Sample not yet received, Liver Function Test without GGT : Sample not yet received

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