



Reg. No. /NH/101/Apr. - 08

L. N. MEDICAL COLLEGE & J. K. HOSPITAL**CLINICAL BIOCHEMISTRY LABORATORY**

MC-5516

| Name | | | | | PATHOLOGY REPORT | | | | | | |
|--|--|---------|--|---------|------------------|--------|--|--|--|--|--|
| ARUN KUMAR | | Age/sex | | 39Y/M | | Date | | 8/2/2025 | | | |
| Ref by | | OPD | | OPD NO. | | LAB NO | | 02 | | | |
| TEST | | | | RESULT | | | | REFERENCE INTERVAL * | | | |
| <u>PLASMA GLUCOSE</u> | | | | | | | | | | | |
| Fasting | | | | 81 | | | | 70 - 110 mg/dL | | | |
| Postprandial | | | | 93 | | | | < 140 mg/dL | | | |
| Random | | | | | | | | 60 - 145 mg/dL | | | |
| <u>RENAL FUNCTION TESTS</u> | | | | | | | | | | | |
| Serum Urea | | | | 18 | | | | 15 - 39 mg/dL | | | |
| Serum Creatinine | | | | 0.99 | | | | 0.55 - 1.30 mg/dL | | | |
| <u>SERUM ELECTROLYTES</u> | | | | | | | | | | | |
| Sodium | | | | 148 | | | | 135 - 145 mmol/L | | | |
| Potassium | | | | 4.5 | | | | 3.5 - 5.0 mmol/L | | | |
| Chloride | | | | 106 | | | | 98 - 110 mmol/L | | | |
| <u>SERUM LIVER FUNCTION TESTS</u> | | | | | | | | | | | |
| Total Bilirubin | | | | 0.7 | | | | 0.2 - 1.0 mg/dL | | | |
| Direct Bilirubin | | | | 0.26 | | | | 0.0 - 0.2 mg/dL | | | |
| Indirect Bilirubin | | | | 0.39 | | | | 0.1 - 0.9 mg/dL | | | |
| SGOT/AST | | | | 26 | | | | 15 - 37 U/L | | | |
| SGPT/ALT | | | | 37 | | | | 12 - 78 U/L | | | |
| Alkaline Phosphatase | | | | 59 | | | | 46 - 116 U/L | | | |
| Total Protein | | | | 8.1 | | | | 6.4 - 8.2 g/dL | | | |
| Albumin | | | | 4.8 | | | | 3.1 - 5.0 g/dL | | | |
| Globulin | | | | 3.2 | | | | 2.3 - 4.1 g/dL | | | |
| Albumin/Globulin Ratio | | | | 1.5 | | | | > 0.85 | | | |
| <u>SERUM LIPID PROFILE</u> | | | | | | | | | | | |
| Total Cholesterol | | | | 167 | | | | < 200 mg/dL | | | |
| Triglycerides | | | | 36 | | | | < 150 mg/dL | | | |
| HDL-Cholesterol | | | | 39 | | | | < 40 (low); > 60 mg/dL (high) | | | |
| LDL-Cholesterol | | | | 116 | | | | < 130 mg/dL | | | |
| VLDL-Cholesterol | | | | 7 | | | | < 30 mg/dL | | | |
| <u>CARDIAC MARKERS</u> | | | | | | | | | | | |
| Serum CK-MB | | | | | | | | < 5.1 ng/mL | | | |
| Troponin -I | | | | | | | | < 0.04 ng/ml (-ve); ≥ 0.04 ng/ml (+ve) | | | |
| <u>OTHERS</u> | | | | | | | | | | | |
| Serum Total Calcium | | | | | | | | 8.5 - 10.1 mg/dL | | | |
| Serum Uric Acid | | | | | | | | 2.6-6(F); 3.5-7.2 mg/dL (M) | | | |
| Serum Amylase | | | | | | | | 25-115 U/L | | | |
| Serum Lipase | | | | | | | | ≤ 60 U/L | | | |
| CRP | | | | | | | | < 5.0 mg/L | | | |
| LDH | | | | | | | | 130-250 U/L | | | |

*Reference interval given is of adults

TECHNICIAN

Provisional Report
CLINICAL BIOCHEMIST
 L. N. Medical College & J. K. Hospital
 Kolar Road, Bhopal



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L. N. MEDICAL COLLEGE & J. K. HOSPITAL

(AN ISO 9001:2008 Certified Hospital)



MC-5516

CLINICAL BIOCHEMISTRY LABORATORY

PATHOLOGY REPORT

| | | | | | |
|--------|------|-------------|-------|---------|------------|
| NAME | ARUN | AGE/SEX | 39Y/M | DATE | 08.02.2025 |
| REF BY | OPD | IPD/OPD NO. | | LAB NO. | 02 |

THYROID PROFILE, TOTAL, SERUM (CLIA- Chemiluminescent immunoassy)

| TEST NAME | RESULTS | UNITS | REF. RANGE |
|-----------|---------|--------|-------------|
| T3 | 1.02 | ng/mL | 0.58 – 1.62 |
| T4 | 12.19 | µg/dL | 5.00 – 14.5 |
| TSH | 1.64 | µIU/mL | 0.35 – 5.10 |

Interpretation

| PREGNANCY | REFERENCE RANGE for TSH in µIU/ml (As per American Thyroid Association) |
|---------------------------|---|
| 1 st Trimester | 0.10-2.50 |
| 2 nd Trimester | 0.20-3.00 |
| 3 rd Trimester | 0.30-3.00 |

Note :-

1. TSH levels are subjected to circadian variation, reaching peak levels between 2-4 a.m. and at a minimum between 6-10p.m. The variation is of the order of 50%, hence time of the day has influence on the measured serum TSH concentrations.
2. Fasting sample is desirable for serum TSH estimation.
3. Recommended test for T3 and T4 is unbound fraction or free levels as it is metabolically active.
4. Physiological rise in Total T3 /T4 levels is seen in pregnancy and in patients on steroid therapy.

Clinical Use

- Primary Hypothyroidism
- Hyperthyroidism
- Hypothalamic – Pituitary hypothyroidism
- Inappropriate TSH secretion
- Non thyroidal illness
- Autoimmune thyroid disease
- Pregnancy associated thyroid disorders
- Thyroid dysfunction in infancy and early childhood.

Kay
TECHNICIAN

Provisional Report
Department of Biochemistry
BIOCHEMIST
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PATHOLOGY REPORT

DEPARTMENT OF CLINICAL PATHOLOGY

| | | | | | |
|---------|------------|---------------|-------|---------|------------|
| NAME: | ARUN KUMAR | AGE / SEX | 29Y/M | DATE | 08/02/2025 |
| REF BY: | OPD | OPD / IPD NO: | | LAB NO: | 02 |

URINE ANALYSIS

PHYSICAL EXAMINATION

VOLUME : 20 ML
COLOUR : PALE YELLOW
APPEARANCE : CLEAR
SP.GRAVITY : 1.015
(pH) : 7.0

CHEMICAL EXAMINATION

ALBUMIN : ABSENT
SUGAR : ABSENT
KETONE : ABSENT
BILE SALT : -----
BILE PIGMENT : -----
OTHERS : ---

MICROSCOPIC EXAMINATION

PUS CELLS : 2-3 /HPF
RBC : ABSENT
EPITH.CELLS : 1-2 /HPF
CRYSTAL : NOT SEEN.
CASTS : NOT SEEN.
BACTERIA : NOT SEEN
FUNGUS : ABSENT
AMORPHOUS MATERIAL : NOT SEEN.
OTHERS : NOT SEEN.

*Due to technical limitation please correlate clinically. Not for medical legal purpose.

TECHNICIAN

PATHOLOGIST

(TUTOR)



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PATHOLOGY REPORT

DEPARTMENT OF HAEMATOLOGY

| | | | | | |
|---------|------|---------------|----|---------|------------|
| NAME: | ARUN | AGE / SEX | Y/ | DATE | 08/02/2025 |
| REF BY: | OPD | OPD / IPD NO: | | LAB NO: | 02 |

HAEMATOLOGY

| TEST : | TEST VALUE | UNITS | NORMAL VALUE |
|-----------------------|------------|--------------------|----------------------------|
| HAEMOGLOBIN | 12.7 | Gm% | M: 13.0-17.0, F :12.0-15.0 |
| E.S.R. (Wintrobe) | | Mm/FHR | M: 0-9 , F: 0-20 |
| TOTAL LEUCOCYTE COUNT | 5.4 | 10 ⁹ /L | 4.0-11.0 |
| DIFFERENTIAL | | | |
| POLYMORPHS | 52 | % | 40-80 |
| LYMPHOCYTES | 40 | % | 20-40 |
| MONOCYTES | 05 | % | 2-10 |
| EOSINOPHILS | 03 | % | 1-6 |
| BASOPHILS | 00 | % | 0-1 |
| PLATELET COUNT: | 220 | 10 ⁹ /L | 150-450 |

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TECHNICIAN

PATHOLOGIST

(TUTOR)