



| | | Chopra ry & Microbiology) Consultant Pathologist | Dr. Yugan MD CEO & Consultant | (Pathology) |
|--|---------------------------------------|--|-------------------------------------|--|
| NAME | : Miss. NIDHI | | | |
| AGE/ GENDER | : 27 YRS/FEMALE | PATI | ENT ID | : 1657833 |
| COLLECTED BY | : | REG. | NO./LAB NO. | : 012410310008 |
| REFERRED BY | : | REGI | STRATION DATE | : 31/Oct/2024 09:29 AM |
| BARCODE NO. | : 01519847 | COLI | ECTION DATE | : 31/Oct/2024 09:30AM |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | REPO | DRTING DATE | : 31/Oct/2024 09:46AM |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROA | AD, AMBALA CANTT | | |
| Test Name | | Value | Unit | Biological Reference interval |
| INTERPRETATION:- | otain malagula in rad blood a | alle that carries awaan fro | m the lungs to the b | adve tissues and returns carbon diovide from t |
| Hemoglobin is the pro tissues back to the lu A low hemoglobin lev ANEMIA (DECRESED H 1) Loss of blood (trau 2) Nutritional deficiel 3) Bone marrow prob | ngs. el is referred to as ANEMIA o | r low red blood count. ng, colon cancer or stomac arrow by cancer) | | odys tissues and returns carbon dioxide from t |

KOS Diagnostic Lab (A Unit of KOS Healthcare)

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD





DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY)



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





| | Dr. Vinay Ch MD (Pathology & Chairman & Cor | | | (Pathology) |
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| CLIENT CODE. | : KOS DIAGNOSTIC LAB | | REPORTING DATE | : 31/Oct/2024 11:13AM |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, | , AMBALA CANT | Г | |
| Test Name | | Value | Unit | Biological Reference interva |
| | THYR ATING HORMONE (TSH): SER | OID STIMUL A UM 1.898 | CRINOLOGY ATING HORMONE (TS μIU/mL | 5H) 0.35 - 5.50 |
| by CMIA (CHEMILUMIN Brd GENERATION, ULT | ATING HORMONE (TSH): SER | OID STIMUL A UM 1.898 | ATING HORMONE (T | |
| by CMIA (CHEMILUMIN Brd GENERATION, ULT | ATING HORMONE (TSH): SER | OID STIMUL A UM 1.898 | ATING HORMONE (Τ μIU/mL | 0.35 - 5.50 |
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| by CMIA (CHEMILUMIN Brd GENERATION, ULT | ATING HORMONE (TSH): SER iescent microparticle immunoa rasensitive AGE | OID STIMUL A UM 1.898 | ATING HORMONE (Τ μIU/mL REFFERENCE RANGE | 0.35 - 5.50 (μIU/mL) |
| by CMIA (CHEMILUMIN Brd GENERATION, ULT | ATING HORMONE (TSH): SER IESCENT MICROPARTICLE IMMUNOA RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months | OID STIMUL A UM 1.898 | ATING HORMONE (TS μIU/mL <u>REFFERENCE RANGE</u> 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 | 0.35 - 5.50 (μlU/mL) |
| by CMIA (CHEMILUMIN Brd GENERATION, ULT | ATING HORMONE (TSH): SER IESCENT MICROPARTICLE IMMUNOA RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years | OID STIMUL A UM 1.898 | ATING HORMONE (TS μIU/mL <u>REFFERENCE RANGE</u> 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 | 0.35 - 5.50 (μIU/mL) |
| | ATING HORMONE (TSH): SER IESCENT MICROPARTICLE IMMUNOA RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years | OID STIMUL A UM 1.898 | ATING HORMONE (TS μIU/mL <u>REFFERENCE RANGE</u> 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50 | 0.35 - 5.50 (μU/mL) |
| by CMIA (CHEMILUMIN Brd GENERATION, ULT | ATING HORMONE (TSH): SER IESCENT MICROPARTICLE IMMUNOA RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years 11 - 15 | OID STIMUL A UM 1.898 | ATING HORMONE (T μIU/mL <u>REFFERENCE RANGE</u> 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50 0.50 – 5.50 | 0.35 - 5.50 (μU/mL) |
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| by CMIA (CHEMILUMIN Brd GENERATION, ULT | ATING HORMONE (TSH): SER VESCENT MICROPARTICLE IMMUNOA RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years 11 - 15 > 20 Years (Adults) | OID STIMUL A UM 1.898 | ATING HORMONE (TS μIU/mL | 0.35 - 5.50 (μU/mL) |
| by CMIA (CHEMILUMIN Brd GENERATION, ULT | ATING HORMONE (TSH): SER VESCENT MICROPARTICLE IMMUNOA RASENSITIVE AGE 0-5 DAYS 6 Days - 2 Months 3 - 11 Months 1 - 5 Years 6 - 10 Years 11 - 15 > 20 Years (Adults) 1st Trimester | OID STIMULA UM 1.898 ISSAY) | ATING HORMONE (TS μIU/mL REFFERENCE RANGE 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50 0.50 – 5.50 0.27 – 5.50 0.10 - 3.00 | 0.35 - 5.50 (μIU/mL) |
| by CMIA (CHEMILUMIN Brd GENERATION, ULT | ATING HORMONE (TSH): SER VESCENT MICROPARTICLE IMMUNOA RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years 11 - 15 > 20 Years (Adults) | OID STIMULA UM 1.898 ISSAY) | ATING HORMONE (TS μIU/mL | 0.35 - 5.50 |

USE:- ISH controls biosynthesis and release of thyroid harmones T4 & T3. It is a sensitive measure of thyroid function, especially useful in early or subclinical hypothyroidism, before the patient develops any clinical findings or goitre or any other thyroid function abnormality. **INCREASED LEVELS**:

1. Primary or untreated hypothyroidism, may vary from 3 times to more than 100 times normal depending on degree of hypofunction.

2. Hypothyroid patients receiving insufficient thyroid replacement therapy.

3. Hashimotos thyroiditis.

4.DRUGS: Amphetamines, Iodine containing agents and dopamine antagonist.

5.Neonatal period, increase in 1st 2-3 days of life due to post-natal surge.

DECREASED LEVELS:

1. Toxic multi-nodular goitre & Thyroiditis.

2. Over replacement of thyroid harmone in treatment of hypothyroidism.

3. Autonomously functioning Thyroid adenoma

4. Secondary pituatary or hypothalmic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

7.DRUGS: Glucocorticoids, Dopamine, Levodopa, T4 replacement therapy, Anti-thyroid drugs for thyrotoxicosis.





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| Tost Namo | | Valuo Unit | Biological Pataronco interva |

| Test Name | Value | Unit | Biological Reference interval |
|-----------|-------|------|--------------------------------------|
| | | | |

8.Pregnancy: 1st and 2nd Trimester

LIMITATIONS:

1.TSH may be normal in central hypothyroidism, recent rapid correction of hyperthyroidism or hypothyroidism, pregnancy, phenytoin therapy. 2.Autoimmune disorders may produce spurious results.



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| | | | | |
| Test Name | | Value | Unit | Biological Reference interval |
| VITAMIN B12/COB | | VITAMI VITAMIN B12/C 243 | | 190.0 - 890.0 |
| by CMIA (CHEMILUMIN INTERPRETATION:- | IESCENT MICROPARTICLE IMMU | VITAMIN B12/C 243 | D BALAMIN pg/mL | |
| by CMIA (CHEMILUMIN <u>NTERPRETATION:-</u> INCREAS | ESCENT MICROPARTICLE IMMU | VITAMIN B12/C 243 (NOASSAY) | OBALAMIN | |
| by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitam | IESCENT MICROPARTICLE IMMU SED VITAMIN B12 nin C | VITAMIN B12/C 243 WOASSAY) | DBALAMIN pg/mL DECREASED VITAMII | <u>V B12</u> |
| by CMIA (CHEMILUMIN <u>NTERPRETATION:-</u> INCREAS | IESCENT MICROPARTICLE IMMU SED VITAMIN B12 hin C gen | VITAMIN B12/C 243 WOASSAY) | DBALAMIN pg/mL DECREASED VITAMII | <u>V B12</u> |
| by CMIA (CHEMILUMIN <u>NTERPRETATION:-</u> <u>INCREAS</u> 1.Ingestion of Vitam 2.Ingestion of Vitam 4.Hepatocellular in | IESCENT MICROPARTICLE IMMU SED VITAMIN B12 hin C gen hin A jury | VITAMIN B12/C 243 (NOASSAY) 1.Pregnancy 2.DRUGS:Aspi 3.Ethanol Iges 4. Contracepti | DBALAMIN pg/mL DECREASED VITAMII rin, Anti-convulsants tion ve Harmones | <u>V B12</u> |
| by CMIA (CHEMILUMIN <u>INTERPRETATION:-</u> <u>INCREAS</u> 1.Ingestion of Vitam 2.Ingestion of Vitam 4.Hepatocellular in 5.Myeloproliferativ | IESCENT MICROPARTICLE IMMU SED VITAMIN B12 hin C gen hin A jury | VITAMIN B12/C 243 (NOASSAY) 1.Pregnancy 2.DRUGS:Aspi 3.Ethanol Iges 4. Contracepti 5.Haemodialy | DBALAMIN pg/mL DECREASED VITAMII rin, Anti-convulsants tion ve Harmones sis | <u>V B12</u> |
| by CMIA (CHEMILUMIN <u>INCREAS</u> 1.Ingestion of Vitam 2.Ingestion of Vitam 4.Hepatocellular in 5.Myeloproliferativ 6.Uremia | IESCENT MICROPARTICLE IMMU SED VITAMIN B12 hin C gen hin A jury | VITAMIN B12/C 243 NOASSAY) 1.Pregnancy 2.DRUGS:Aspi 3.Ethanol Iges 4. Contracepti 5.Haemodialy 6. Multiple My | DBALAMIN pg/mL DECREASED VITAMII rin, Anti-convulsants tion ve Harmones sis veloma | <u>V B12</u> |

7.Follow-up testing for antibodies to intrinsic factor (IF) is recommended to identify this potential cause of vitamin B12 malabsorption. **NOTE:**A normal serum concentration of vitamin B12 does not rule out tissue deficiency of vitamin B12. The most sensitive test for vitamin B12 deficiency at the cellular level is the assay for MMA. If clinical symptoms suggest deficiency, measurement of MMA and homocysteine should be considered, even if serum vitamin B12 concentrations are normal.

*** End Of Report ***





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