PKR JAIN HEALTHCARE INSTITUTE NASIRPUR, Hissar Road, AMBALA CITY- (Haryana)

A PIONEER DIAGNOSTIC CENTRE

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NAME : Mr. ARJUN AGE/ GENDER : 27 YRS/MALE **PATIENT ID** :1810659 **COLLECTED BY** : 122503290010 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 29/Mar/2025 10:08 AM **BARCODE NO.** :12507782 **COLLECTION DATE** : 29/Mar/2025 10:26AM CLIENT CODE. : P.K.R JAIN HEALTHCARE INSTITUTE **REPORTING DATE** : 29/Mar/2025 04:54PM **CLIENT ADDRESS** : NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA Value Unit Test Name **Biological Reference interval** VITAMINS

## VITAMIN D/25 HYDROXY VITAMIN D3

ng/mL

VITAMIN D (25-HYDROXY VITAMIN D3): SERUM 17.6<sup>L</sup> by CLIA (CHEMILUMINESCENCE IMMUNOASSAY)

DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0

TOXICITY: > 100.0

## INTERPRETATION:

DEFICIENT:	< 20	ng/mL
INSUFFICIENT:	21 - 29	ng/mL
PREFFERED RANGE:	30 - 100	ng/mL
INTOXICATION:	> 100	ng/mL

1. Vitamin D compounds are derived from dietary ergocalciferol (from plants, Vitamin D2), or cholecalciferol (from animals, Vitamin D3), or by conversion of 7- dihydrocholecalciferol to Vitamin D3 in the skin upon Ultraviolet exposure.

2.25-OH--Vitamin D represents the main body resevoir and transport form of Vitamin D and transport form of Vitamin D, being stored in adipose tissue and tightly bound by a transport protein while in circulation.

3. Vitamin D plays a primary role in the maintenance of calcium homeostatis. It promotes calcium absorption, renal calcium absorption and phosphate reabsorption, skeletal calcium deposition, calcium mobilization, mainly regulated by parathyroid harmone (PTH). 4. Severe deficiency may lead to failure to mineralize newly formed osteoid in bone, resulting in rickets in children and osteomalacia in adults. DECREASED:

1.Lack of sunshine exposure.

2.Inadequate intake, malabsorption (celiac disease) 3.Depressed Hepatic Vitamin D 25- hydroxylase activity

4.Secondary to advanced Liver disease

5. Osteoporosis and Secondary Hyperparathroidism (Mild to Moderate deficiency)

6.Enzyme Inducing drugs: anti-epileptic drugs like phenytoin, phenobarbital and carbamazepine, that increases Vitamin D metabolism.

INCREASED: 1. Hypervitaminosis D is Rare, and is seen only after prolonged exposure to extremely high doses of Vitamin D. When it occurs, it can result in severe hypercalcemia and hyperphophatemia.

CAUTION: Replacement therapy in deficient individuals must be monitored by periodic assessment of Vitamin D levels in order to prevent hypervitaminosis D

NOTE:-Dark coloured individuals as compare to whites, is at higher risk of developing Vitamin D deficiency due to excess of melanin pigment which interefere with Vitamin D absorption.



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440 Dated 17.5.2012 u/s 80 G OF INCOME TAX ACT. PAN NO. AAAAP1600. **REPORT ATTRACTS THE CONDITIONS PRINTED OVERLEAF (P.T.O.)** 



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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA C	ITY - HARYANA	
Test Name	VITAN ALAMIN: SERUM 50	Alue Unit MIN B12/COBALAMIN D1 pg/mL	<b>Biological Reference interva</b> 190.0 - 890.0
VITAMIN B12/COB by CMIA (CHEMILUMIN INTERPRETATION:-	VITAN ALAMIN: SERUM 50 ESCENT MICROPARTICLE IMMUNOASSAY)	MIN B12/COBALAMIN	190.0 - 890.0
VITAMIN B12/COB by CMIA (CHEMILUMIN <u>INTERPRETATION:-</u> INCREAS	VITAN ALAMIN: SERUM 50 ESCENT MICROPARTICLE IMMUNOASSAY)	MIN B12/COBALAMIN D1 pg/mL DECREASED VITAMI	190.0 - 890.0
VITAMIN B12/COB by CMIA (CHEMILUMIN <u>INTERPRETATION:-</u> INCREAS _1.Ingestion of Vitam	VITAN   ALAMIN: SERUM 50   SECENT MICROPARTICLE IMMUNOASSAY)   SED VITAMIN B12   nin C	MIN B12/COBALAMIN 1 pg/mL DECREASED VITAMI 1.Pregnancy	190.0 - 890.0 N B12
VITAMIN B12/COB by CMIA (CHEMILUMIN <u>INTERPRETATION:-</u> INCREAS	VITAN   ALAMIN: SERUM 50   rescent microparticle immunoassary   ED VITAMIN B12   nin C   gen	MIN B12/COBALAMIN D1 pg/mL DECREASED VITAMI	190.0 - 890.0 N B12
VITAMIN B12/COB by CMIA (CHEMILUMIN <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitam 2.Ingestion of Estrog	VITAN   ALAMIN: SERUM 50   rescent microparticle immunoassary   ED VITAMIN B12   nin C   gen   nin A	MIN B12/COBALAMIN pg/mL DECREASED VITAMI 1.Pregnancy 2.DRUGS:Aspirin, Anti-convulsants	190.0 - 890.0 N B12
VITAMIN B12/COB by CMIA (CHEMILUMIN <u>INTERPRETATION:-</u> INCREAS 1.Ingestion of Vitam 2.Ingestion of Estrog 3.Ingestion of Vitam	VITAN   ALAMIN: SERUM 50   rescent microparticle immunoassary   SED VITAMIN B12   nin C   gen   nin A   jury   e disorder	MIN B12/COBALAMIN pg/mL DECREASED VITAMI 1.Pregnancy 2.DRUGS:Aspirin, Anti-convulsants 3.Ethanol Igestion	190.0 - 890.0 N B12

for reservention by gastric mucosa (eg, gastrectomy, gastric atrophy) or intestinal malabsorption (eg, ileal resection, small intestinal diseases).

5. Vitamin B12 deficiency frequently causes macrocytic anemia, glossitis, peripheral neuropathy, weakness, hyperreflexia, ataxia, loss of proprioception, poor coordination, and affective behavioral changes. These manifestations may occur in any combination; many patients have the neurologic defects without macrocytic anemia.

6.Serum methylmalonic acid and homocysteine levels are also elevated in vitamin B12 deficiency states.

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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**NOT VALID FOR MEDICO LEGAL PURPOSE** 

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