

Patient's Name: Mr. Asim Tendulkar Date of Regi. 26/03/2025
Age/Sex: 52 Years/Male Reg ID R3255515
Referred by: - Sample No. 4494
Time Of Collection 26/03/2025 08:42 **R3255515** Reporting Time 26/03/2025 11:09

SERUM 25 - OH VITAMIN D LEVEL

Test	Result	Unit	Biological Reference Range
Vitamin D Total : (D2 + D3)	42.23	ng/ml	< 20 : Defficiency 20-29 : Insufficiency 30-100 : sufficiency > 100 : Toxicity

Method : By Electrochemiluminescence on cobas e 411

Comment :

Vitamin D is a fat soluble steroid prohormone mainly produced photochemically in the skin from 7 - dehydrocholesterol. Variation in the referance range may be observed depending upon the sunlight exposure.

In summer time referance range may be higher then winter time.

25 (OH) calciferol (25 OH D) is circulating form of Vitamin D It is at present best indicator of Vitamin D status Fraction of circulating (OH) D is converted to its active metabolites 1.25 (OH) D mainly by kidney. This process is regulated by PTH

Vitamin D plays an crucial role in the body by absorbing calcium and maintaing strong bone for a life time Vitamin D2 & D3 are obtain by dietary source . Cholesterole can also be broken down by body to vitamin D3 with help of direct sun light. Vitamin D 25 OH hydroxy test is a best way to moniter Vitamin D2 & D3 level.

Vitamin D deficiency caused when kidney not able to convert it to active form of vitamin D

In adequate absorption by digestive tract like crohn's disease, cystic fibrosis, celiac disease can lead to Vitamin d deficiency.

Low level of vitamin D deficiency indicate osteoporosis, rickets and variety of bone disorder some times cardiac disease, stroke, and even cancer.

Dr. Trupti Kotak
MBBS

Approved on 26/03/2025 11:09:00 AM

Thanks for Reference

Dr. Amit Kotak
MD Pathology

-----End of report-----

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Referred by: - Sample No. 4494
Time Of Collection 26/03/2025 08:42 **R3255515** Reporting Time 26/03/2025 09:40

SERUM VITAMIN B12

Sample type : serum

Test	Result	Unit	Biological Reference Range
S. Vitamin B - 12 :	226	pg/mL	187 - 883 pg/mL

Method : By ElectroChemiluminence on cobas e 411

Clinical Significance

Vitamin B12 is necessary for healthful nerve tissue, brain function and red cell production. Vitamin B12 is a cofactor in the synthesis of methionine from homocysteine, it is implicated in the formation of myelin along with folate, and is required for DNA synthesis. Vitamin B12 deficiency can be of three types: Nutritional, Malabsorption syndrome and gastrointestinal causes. B12 deficiency can cause megaloblastic anaemia, nerve damage, degeneration of spinal cord. Mild deficiency can cause damage to myelin sheath which surrounds nerve, which may lead to peripheral neuropathy. Conditions associated with low B12 are Iron deficiency, normal term pregnancy, Vegetarianism, partial gastrectomy, celiac disease, oral contraceptive, Paracetamol use, advancing age.

Dr. Trupti Kotak
MBBS


Dr. Amit Kotak
MD Pathology

Approved on 26/03/2025 9:40:00 AM

Thanks for Reference

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Time Of Collection 26/03/2025 08:42 **R3255515** Reporting Time 26/03/2025 11:06

BIOCHEMISTRY REPORT

Sample type: Serum

Test	Result	Unit	Biological Reference Range
Uric Acid (Enzymetic colorimetric)	8.2	mg/dl	3.4 - 7.0

Remarks

BY COBAS INTEGRA 400 Fully Automated Biochemistry Analyser, Germany

Dr. Trupti Kotak
MBBS


Dr. Amit Kotak
MD Pathology

Approved on 26/03/2025 11:06:00 AM

Thanks for Reference

-----End of report-----