

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



KOS Diagnostic Lab (A Unit of KOS Healthcare)

	Dr. Vinay Cho MD (Pathology & Chairman & Cons	Microbiology)		(Pathology)
NAME	: Mr. RAKESH KUMAR GARG			
AGE/ GENDER	: 52 YRS/MALE		PATIENT ID	: 1687452
COLLECTED BY	:		REG. NO./LAB NO.	: 042502230001
REFERRED BY	:		REGISTRATION DATE	: 23/Feb/2025 09:20 AM
BARCODE NO.	: A1260531		COLLECTION DATE	: 23/Feb/2025 03:46PM
CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAD		REPORTING DATE	: 23/Feb/2025 05:17PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
by CLIA (CHEMILUMINE	VITA DROXY VITAMIN D3): SERUM ESCENCE IMMUNOASSAY)	MIN D/25 HY 30.33	Y DROXY VITAMIN D ng/mL	3 DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
INTERPRETATION:		20		~ /
DEFIC INSUFF	ICIENT:	< 20 21 - 29		g/mLg/mL
PREFFERE		30 - 100		g/mL
conversion of 7- dihvo 2.25-OHVitamin D re tissue and tightly bou 3.Vitamin D plays a pr phosphate reabsorpti 4.Severe deficiency m DECREASED: 1.Lack of sunshine ext 2.Inadeguate intake, 3.Depressed Hepatic ¹ 4.Secondary to advan	drocholecalciferol to Vitamin D3 epresents the main body resevoir and by a transport protein while in rimary role in the maintenance of on, skeletal calcium deposition, ay lead to failure to mineralize n posure. malabsorption (celiac disease) Vitamin D 25- hydroxylase activit	in the skin upon and transport fo in circulation. of calcium homeo calcium mobiliza newly formed ost	Ultraviolet exposure. form of Vitamin D and trans ostatis. It promotes calciur tion, mainly regulated by r	lecalciferol (from animals, Vitamin D3), or by port form of Vitamin D, being stored in adipose n absorption, renal calcium absorption and barathyroid harmone (PTH). ickets in children and osteomalacia in adults.





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

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Page 1 of 2





	Dr. Vinay Che MD (Pathology & Chairman & Cons	Microbiology)	Dr. Yugan MD CEO & Consultant	(Pathology)	
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LIENI ADDRESS	. 0349/1, NICHOLSON KOAD, F	AMDALA CANTI			
Fest Name		Value VITAMIN B12/COI	Unit BALAMIN	Biological Reference i	nterva
VITAMIN B12/COB	ALAMIN: SERUM ESCENT MICROPARTICLE IMMUNOAS	VITAMIN B12/COI 347.6		Biological Reference i 190.0 - 830	nterva
VITAMIN B12/COB by CMIA (CHEMILUMIN INTERPRETATION:-		VITAMIN B12/COI 347.6 SSAY)	BALAMIN	190.0 - 830	nterva
VITAMIN B12/COB by CMIA (CHEMILUMIN INTERPRETATION:-	ESCENT MICROPARTICLE IMMUNOAS	VITAMIN B12/COI 347.6 SSAY)	BALAMIN pg/mL	190.0 - 830	nterva
VITAMIN B12/COB by CMIA (CHEMILUMIN <u>INTERPRETATION:-</u> INCREAS 1.Ingestion of Vitam 2.Ingestion of Estrog	ESCENT MICROPARTICLE IMMUNOAS ED VITAMIN B12 nin C gen	VITAMIN B12/COJ 347.6 SSAY) D 1.Pregnancy 2.DRUGS:Aspirin	BALAMIN pg/mL ECREASED VITAMII	190.0 - 830	nterva
VITAMIN B12/COB by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitam 2.Ingestion of Estrog 3.Ingestion of Vitam	ESCENT MICROPARTICLE IMMUNOAS ED VITAMIN B12 nin C gen nin A	VITAMIN B12/COJ 347.6 SSAY) D 1.Pregnancy 2.DRUGS:Aspirin 3.Ethanol Igestic	BALAMIN pg/mL ECREASED VITAMII , Anti-convulsants	190.0 - 830	nterva
VITAMIN B12/COB by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitam 2.Ingestion of Estrog 3.Ingestion of Vitam 4.Hepatocellular inj	ESCENT MICROPARTICLE IMMUNOAS ED VITAMIN B12 nin C gen nin A jury	VITAMIN B12/COI 347.6 SSAY) D 1.Pregnancy 2.DRUGS:Aspirin 3.Ethanol Igestic 4. Contraceptive	BALAMIN pg/mL ECREASED VITAMII , Anti-convulsants n Harmones	190.0 - 830	nterva
VITAMIN B12/COB by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitam 2.Ingestion of Estrog 3.Ingestion of Vitam	ESCENT MICROPARTICLE IMMUNOAS ED VITAMIN B12 nin C gen nin A jury	VITAMIN B12/COJ 347.6 SSAY) D 1.Pregnancy 2.DRUGS:Aspirin 3.Ethanol Igestic	BALAMIN pg/mL ECREASED VITAMII , Anti-convulsants n Harmones	190.0 - 830	nterva

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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