

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	MD (P	'inay Chopra athology & Microbiology nan & Consultant Pathol	() ogist	Dr. Yugam MD CEO & Consultant	(Pathology)	
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mr. SUNIL GOEL : 61 YRS/MALE : : 01517324 : KOS DIAGNOSTIC I : 6349/1, NICHOLSC	.AB DN ROAD, AMBALA CAN	REGIST COLLEC REPOR	IT ID D./LAB NO. RATION DATE TION DATE FING DATE	: 1616666 : 01240920003 : 20/Sep/2024 09 : 20/Sep/2024 09 : 20/Sep/2024 10	9:45 AM 9:48AM
Test Name		Value	_	Unit	Biologic	al Reference interval
		VITAMINS	сомво	PANEL: 2.0		
		VITAMIN D/2	5 HYDROX	Y VITAMIN D3		
	OXY VITAMIN D3): S ESCENCE IMMUNOASSA			ng/mL	INSUFFI SUFFICI	NCY: < 20.0 CIENCY: 20.0 - 30.0 ENCY: 30.0 - 100.0 'Y: > 100.0
INTERPRETATION: DEFIC	IFNT	< 20		na	/mL	
DEFICIENT: INSUFFICIENT:		21 - 29		ng/mL		
PREFFERE	D RANGE:	30 - 100 > 100			/mL /mL	
conversion of 7- dihyc 2.25-OHVitamin D re tissue and tightly bou 3.Vitamin D plays a pr phosphate reabsorptie 4.Severe deficiency m DECREASED: 1.Lack of sunshine exc 2.Inadequate intake, r 3.Depressed Hepatic N 4.Secondary to advanc 5.Osteoporosis and Se 6.Enzyme Inducing dru INCREASED: 1. Hypervitaminosis D severe hypercalcemia CAUTION: Replacemer hypervitaminosis D	Irocholecalciferol to V presents the main bo- nd by a transport pro- imary role in the main on, skeletal calcium d ay lead to failure to m malabsorption (celiac /itamin D 25- hydroxy ced Liver disease econdary Hyperparath ugs: anti-epileptic dru is Rare, and is seen or and hyperphophatem it therapy in deficient <i>ndividuals as compare</i>	/itamin D3 in the skin u dy resevoir and transpo- tein while in circulatior ntenance of calcium ho eposition, calcium mob nineralize newly formed disease) dase activity roidism (Mild to Moder gs like phenytoin, phen nly after prolonged exp nia. individuals must be mo	pon Ultravio ort form of Vi n. illization, ma d osteoid in b rate deficien obarbital an osure to exti ponitored by p	let exposure. tamin D and transp promotes calcium inly regulated by p pone, resulting in ri cy) d carbamazepine, t remely high doses o eriodic assessment	port form of Vitamin absorption, renal c arathyroid harmone ckets in children an hat increases Vitam of Vitamin D. When t of Vitamin D levels	d osteomalacia in adults. in D metabolism. it occurs, it can result in
	Bor	2	Chopro			

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	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist		Dr. Yugam Chopra MD (Pathology) st CEO & Consultant Pathologist			
NAME	: Mr. SUNIL GOEL					
AGE/ GENDER	: 61 YRS/MALE	PATI	ENT ID	: 1616666		
COLLECTED BY	:	REG.	NO./LAB NO.	: 012409200031		
REFERRED BY	:	REGI	STRATION DATE	: 20/Sep/2024 09:45 AM		
BARCODE NO.	:01517324		ECTION DATE	: 20/Sep/2024 09:48AM		
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE : 20/Sep/ 2024 00.40AM			
CLIENT CODE. CLIENT ADDRESS						
LIENI ADDRESS	: 6349/1, NICHOLSON ROAD	, AMDALA CANTI				
Test Name		Value	Unit	Biological Reference interval		
VITAMIN B12/COBA by CMIA (CHEMILUMI IMMUNOASSAY) INTERPRETATION:-	NESCENT MICROPARTICLE	83 ^L	pg/mL	190.0 - 890.0		
INCREASED VITAMIN B12			DECREASED VITAMIN B12			
1.Ingestion of Vitamin C		1.Pregnancy				
2.Ingestion of Estro			2.DRUGS:Aspirin, Anti-convulsants, Colchicine			
3.Ingestion of Vitamin A		3.Ethanol Igestion				
4.Hepatocellular injury			4. Contraceptive Harmones			
5.Myeloproliferative disorder 6.Uremia			5.Haemodialysis 6. Multiple Myeloma			
	lamin) is necessary for hematop					
2.In humans, it is ob	tained only from animal protein	ns and requires intrinsic f	actor (IF) for absorp	tion.		
	itamin B12 stores very economi	cally, reabsorbing vitami	n B12 from the ileun	n and returning it to the liver; very little is		
excreted.	ancy may be due to lack of IF cos	arotion by asstric muccos	log astroctomy a	astric atrophy) or intestinal malabsorption		
	l intestinal diseases).	sienon by gastric mucosa	i (ey, yasirecioniy, y	astric attophy) of intestinal malabsorption		
5.Vitamin B12 deficie	ency frequently causes macrocy	tic anemia, glossitis, per	pheral neuropathy,	weakness, hyperreflexia, ataxia, loss of		

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.





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CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 20/Sep/2024 03:32PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANT	Т		
Test Name		Value	Unit	Biological Reference interval	

INTERPRETATION

RESULT IN ng/mL	REMARKS
0.35 – 3.37	DEFICIENT
3.38 - 5.38	INTERMEDIATE
5.39 - 100.00	NORMAL

NOTE:

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1. Drugs like Methotrexate & Leucovorin interfere with folate measurement

2. To differentiate vitamin B12 & folate deficiency, measurement of Methyl malonic acid in urine & serum Homocysteine level is suggested 3. Risk of toxicity from folic acid is low as it is a water soluble vitamin regularly excreted in urine

COMMENTS:

1. Folate plays an important role in the synthesis of purine & pyrimidines in the body and is important for the maturation of erythrocytes.

It is widely available from plants and to a lesser extent organ meats, but more than half the folate content of food is lost during cooking.
 Folate deficiency is commonly prevalent in alcoholic liver disease, pregnancy and the elderly. It may result from poor intestinal absorption, nutrition deficiency, excessive demand as in pregnancy or in malignancy and in response to certain drugs like Methotrexate & anticonvulsants.
 Decreased Levels Megaloblastic anemia, Infantile hyperthyroidism, Alcoholism, Malnutrition, Scurvy, Liver disease, B12 deficiency, dietary amino acid excess, adult Celiac disease, Tropical Sprue, Crohn's disease, Hemolytic anemias, Carcinomas, Myelofibrosis, vitamin B6 deficiency, pregnancy, Whipple's disease, extensive intestinal resection and severe exfoliative dermatitis

** End Of Report ***





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