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MC-5659

Passport No :

LABORATORY TEST REPORT



Patient Information	Sample Information	Client/Location Information
Name : Mr Bhavdip Lakum	Lab Id : 052317606153	Client Name : Jivan Jyot Clinical Laboratory@Bhavnagar
Sex/Age : Male / 21 Y	Registration on : 29-May-2023 10:40	Location :
Ref. Id :	Collected at : non SAWPL	Approved on : 29-May-2023 19:37 Status : Final
Ref. By :	Collected on : 29-May-2023 18:40	Printed On : 29-May-2023 19:37
	Sample Type : Serum	Process At : 176. SAWPL GUJARAT BHAVNAGAR
		SAMVED COMPLEX

Immunoassay

Test	Result	Unit	Biological Ref. Interval
Vitamin B12 CLIA	110	pg/mL	120 - 914

Vitamin B12 is essential in DNA synthesis, hematopoiesis, and CNS integrity.

Interpretation:

- Increased In** : Chronic granulocytic leukemia , COPD and Chronic renal failure , Leukocytosis , Liver cell damage (hepatitis, cirrhosis) , Obesity and Severe CHF , Polycythemia vera , Protein malnutrition.
- Decreased In** : Abnormalities of cobalamin transport or metabolism , Bacterial overgrowth , Crohn disease , Dietary deficiency (e.g. in vegetarians) , Diphylobothrium (fish tapeworm) infestation , Gastric or small intestine surgery , Hypochlorhydria , Inflammatory bowel diseases , Intestinal malabsorption and Intrinsic factor deficiency

Limitations:

- Drugs such as chloral hydrate increase vitamin B12 levels. On the other hand , alcohol, aminosalicic acid, anticonvulsants, ascorbic acid, cholestyramine, cimetidine, colchicines, metformin, neomycin, oral contraceptives, ranitidine, and triamterene decrease vitamin B12 levels.
- The evaluation of macrocytic anemia requires measurements of both vitamin B12 and folate levels; ideally they should be measured simultaneously.
- Specimen collection soon after blood transfusion can falsely increase vitamin B12 levels.
- Patients taking vitamin B12 supplementation may have misleading results.
- A normal serum concentration of B12 does not rule out tissue deficiency of vitamin B12. The most sensitive test for 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 B12 concentrations are normal.

----- End Of Report -----

Dr. Krupal Hapani
M.D. PathologyDr. Hemal Salot
M.D. PathologyDr. Dharmik Kambad
M.D. Pathology

This is an Electronically Authenticated Report.

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Note: Patient identity to be considered as 'Not Confirmed' unless any document details used for identification purposes is mentioned in report.

Sterling Accuris Pathology Laboratory

Main Laboratory: (Sterling Accuris Diagnostics) GF: 2-3, FF: 112-113, Samved Complex, Jail road, Opp. A division Police station, Bhavnagar-364001.

Ph.: 9054190189, (0278) 222 4143, 300 4143, 252 4143

Email: info.visionlab@sterlingaccuris.com, info.bhavnagar@sterlingaccuris.com | Website: www.sterlingaccuris.com