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MC-2202

sterling
ACCURIS
Pathology lab that cares

Passport No :

LABORATORY TEST REPORT

Patient Information	Sample Information	Client/Location Information
Name : Lyubochka Svetka	Lab Id : 02232160XXXX	Client Name : Sterling Accuris Buddy
Sex/Age : Male / 41 Y 01-Feb-1982	Registration on : 20-Feb-2023 09:10	Location :
Ref. Id :	Collected at : non SAWPL	Approved on : 20-Feb-2023 12:04 Status : Final
Ref. By :	Collected on : 20-Feb-2023 08:53	Printed On : 28-Feb-2023 10:26
	Sample Type : Serum	Process At : 1. NRL SAWPL Gujarat Ahmedabad Paldi

Immunoassay

Test	Result	Unit	Biological Ref. Interval
Vitamin B12 <small>CLIA</small>	L < 148	pg/mL	187 - 833

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.

Dhote.

DR. TEJASWINI DHOTE

M.D. Pathology

Dr. Sanjeev Shah

MD Path

Dr. Yash Shah

MD Path

This is an Electronically Authenticated Report.

Referred Test

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Sterling Accuris Pathology Laboratory

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