MAYO CLINIC LABORATORIES

Test Definition: FPAB

Vitamin B5 (Pantothenic Acid) Bioassay

Overview

Method Name
Microbiological Assay

NY State Available
No

Specimen

Specimen Type
Serum SST

Specimen Required
Specimen Type: Serum
Container/Tube: SST
Specimen Volume: 2 mL
Collection Instructions: Draw blood in SST (serum separator tube). Allow sample to clot for 30 minutes at room temperature. Spin down and send 1 mL serum frozen in an amber vial (T915) **to protect from light**.

Specimen Minimum Volume
0.5 mL

Reject Due To

Gross hemolysis:	Reject
Thawing:	Warm Reject; Cold OK
Gross lipemia:	Reject
List other reasons for rejection:	Reject specimens containing particulate matter or microbial contamination. Specimens unprotected from light.

Specimen Stability Information

Specimen Type	Temperature	Time	Special Container
Serum SST	Frozen (preferred)	21 days	LIGHT PROTECTED
	Refrigerated	7 days	LIGHT PROTECTED

Clinical & Interpretive

Clinical Information

Pantothenic acid, commonly known as vitamin B5, is a water-soluble vitamin. As part of acetyl CoA or an acyl carrier protein, pantothenic acid plays an essential role in metabolic pathways. It functions in the oxidation of both fatty acids and carbohydrates for energy production in the form of A TP. Vitamin B5 also participates in the synthesis of amino acids, fatty acids, ketones, cholesterol, phospholipids, and steroids. Additionally, vitamin B5 contributes to porphyrin and hemoglobin biochemistry and in adrenal function. Pantothenic acid deficiency is exceedingly rare, mostly affecting individuals who are severely malnourished. Those who lack an adequate amount of vitamin B5 may demonstrate symptoms such as paresthesias, muscle weakness, fatigue, nausea, abdominal pains and susceptibility to infection.

Reference Values

Adult Reference Range

>10 Years	37-147 ug/L

Pediatric Reference Range

< or =1 Year	3.45 to 825 ug/L
>1 year to 10 Years	3.45 to 229.2 ug/L

Performance

PDF Report

No

Day(s) Performed

Monday

Report Available

4 to 18 days

Performing Laboratory Location

BioAgilytix Diagnostics

Fees & Codes

Fees

- Authorized users can sign in to Test Prices for detailed fee information.
- Clients without access to Test Prices can contact Customer Service 24 hours a day, seven days a week.
- Prospective clients should contact their account representative. For assistance, contact Customer Service.

Test Classification

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The performance characteristics of the listed assay was validated by BioAgilytix Diagnostics. The US FDA has not approved or cleared this test. The results of this assay can be used for clinical diagnosis without FDA approval. BioAgilytix Diagnostics is a CLIA certified, CAP accredited laboratory for performing high complexity assays such as this one.

CPT Code Information

84591

LOINC® Information

Test ID	Test Order Name	Order LOINC® Value
FPAB	Pantothenic Acid (B-5) Bioassay	2722-7

Result ID	Test Result Name	Result LOINC® Value
FPAB	Pantothenic Acid (B-5) Bioassay	2722-7