

Test Change Notification

Notification Date:

12 Nov. 2018

Effective Date:

03 Dec. 2018

Vitamin B₆ (Pyridoxal 5'-phosphate), Plasma/Serum

SBMF Test Code: 44322

Mnemonic: VIT-B6

CPT Code: 84207

Effective December 3, this test will be performed at the South Bend Medical Foundation (SBMF) laboratory and is no longer a sent out test to ARUP Laboratory. This change will improve the test turnaround time. The reporting, reference range, methodology, specimen collection and handling will not change.

Run Day

Tue, Fri

Reported

1-4 business days

Specimen Information

Patient Prep:

Collect specimen after an overnight or 8 hour fast.

Collect:

Green top (sodium or lithium heparin) or Light Green top (PST) tube. Also acceptable: Red top (serum) tube. Mix by inverting tube 8 times.

Specimen Processing:

Separate plasma or serum from cells within 1 hour of collection. Transfer 1 mL plasma or serum to SBF **Amber** Transport Tube and freeze immediately. (Min: 0.5 mL)

Storage/Transport Temp:

CRITICAL FROZEN. Separate specimens must be submitted when multiple tests are ordered.

Rejection Criteria:

Any specimens other than heparinized plasma or serum. Non-frozen specimens. Serum separator tubes. Specimens collected in EDTA yield a higher pyridoxal 5'-phosphate concentration; therefore, EDTA is not acceptable. Hemolyzed specimens.

Remarks:

Protect specimen from light during collection, storage, and transport.

Stability:

After separation from cells:

Room temperature: Unacceptable

Refrigerated: 4 hours

Frozen: 2 months

Reference Range

20-125 nmol/L

SOUTH BEND MEDICAL FOUNDATION

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Joyce L. Simpson, M.D. • Medical Director

Clinical Information:

Vitamin B6 is a cofactor in many metabolic pathways including heme synthesis. Vitamin B6 deficiency may be observed in patients with metabolic disorders, secondary to therapeutic drug use, or alcoholism. Deficiency effects the function of the immune system. Pyridoxal phosphate (PLP) has been determined to be the biologically active form of vitamin B6. Markedly elevated PLP in conjunction with low levels of pyridoxic acid (PA) are observed in cases of hypophosphatasia, a disorder characterized by low levels of alkaline phosphatase and a range of skeletal abnormalities.

Interpretive Data:

Pyridoxal 5'-phosphate measured in a specimen collected following an 8 hour or overnight fast accurately indicates vitamin B6 nutritional status. Non-fasting specimen concentration reflects recent vitamin intake.

Compliance Statement F: Research use only (RUO) – This test uses a reagent or kit labeled by the manufacturer as “research use only.” Its performance characteristics were determined by SBMF. This test has not been cleared or approved by the U.S. FDA; however, U.S. FDA clearance or approval is not currently required for clinical use. The results are not intended to be used as the sole means for clinical diagnosis or patient management decisions. SBMF is accredited to perform CLIA High Complexity Testing.

Note:

This test measures pyridoxal 5-phosphate, the biologically active form of vitamin B6.

SBMF online Test Directory

Questions: Please contact **CLIENT SERVICES 800-950-7263**

Technical Notices and Lab Alerts are distributed electronically.

Email addresses may be added/unsubscribed at our website: **Client Notices**

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