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**Lab Dept:** Chemistry

**Test Name:** VITAMIN B6 ASSAY

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***General Information***

**Lab Order Codes:** VIB6

**Synonyms:** Pyridoxal 5-phosphate; PALP

**CPT Codes:** 84207 – Pyridoxal phosphate (Vitamin B-6)

**Test Includes:** Vitaming B6/Pyridoxal 5-Phosphate level reported in mcg/L.

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***Logistics***

**Test Indications:** Useful for determining vitamin B6 status, including persons who present with progressive nerve compression disorders such as carpal tunnel and tarsal tunnel syndromes. Determining the overall success of a vitamin B6 supplementation program. Diagnosis and evaluation of hypophosphatasia.

**Lab Testing Sections:** Chemistry - Sendouts

**Referred to:** Mayo Medical Laboratories (Mayo Test: PLP)

**Phone Numbers:** MIN Lab: 612-813-6280

STP Lab: 651-220-6550

**Test Availability:** Daily, 24 hours

**Turnaround Time:** 1 – 4 days, performed Sunday - Thursday

**Special Instructions:** See [Container](#), [Collection](#) and [Patient Preparation](#) below.

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***Specimen***

**Specimen Type:** Blood

**Container:** Green top (Li heparin) tube  
Alternate tube: Green top (Na heparin) tube

**Draw Volume:** 3 mL (Minimum: 1.5 mL) blood

**Processed Volume:** 1 mL (Minimum: 0.5 mL) plasma

<b>Collection:</b>	Routine venipuncture. Protect specimen from light by wrapping in foil. Forward to laboratory promptly.
<b>Special Processing:</b>	Lab Staff: Centrifuge specimen in cooled 4 degree centrifuge within 2 hours of collection, remove plasma/serum aliquot into an amber MML tube (Supply T192) to protect from light. Store and ship at frozen temperatures. Forward promptly.
<b>Patient Preparation:</b>	Vitamin supplements must not be ingested for 24 hours before the specimen is drawn. Alcohol must not be consumed for 24 hours before specimen is drawn. It is recommended that the patient be fasting 12 - 14 hours (overnight fast or infants prior to next draw) before specimen is collected.
<b>Sample Rejection:</b>	Improper patient preparation may yield useless results. Exposure of the specimen to light may result in falsely decreased values. Separator tubes are NOT acceptable. Warm specimens; anticoagulants other than heparin; mislabeled or unlabeled specimens

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### ***Interpretive***

<b>Reference Range:</b>	5 – 50 mcg/L
<b>Critical Values:</b>	N/A
<b>Limitations:</b>	Reference ranges were established using healthy fasting volunteers who abstained from vitamin supplementation for 24 hours prior to draw. Vitamin supplementation and non-fasting specimens may result in elevated plasma vitamin concentrations.
<b>Methodology:</b>	Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS)
<b>References:</b>	<a href="#">Mayo Clinic Laboratories</a> (October 2021)
<b>Updates:</b>	7/12/2010: Units update from ug/L to mcg/L. 4/19/2011: Method change, previously listed as Automated reversed phase High Performance Liquid Chromatography (HPLC). 11/6/2017: Collection container update 10/25/2021: Updated processing, now frozen specimen required