## Lab Dept: Chemistry

## Test Name: THIAMINE (VITAMIN B1)

## **General Information**

Lab Order Codes:	TDP
Synonyms:	Thiamin Diphosphate (TDP), Thiamin Pyrophosphate (TPP) Thiamine
CPT Codes:	84425 - Assay of Vitamin B1
Test Includes:	Vitamin B1 level reported in nmol/L
Logistics	
Test Indications:	Assessment of thiamine deficiency. Thiamine measurement in patients with behavioral changes, eye signs, gait disturbances, delirium, and encephalopathy; or in patients with questionable nutritional status, especially those who appear at risk and who also are being given insulin for hyperglycemia.
Lab Testing Sections:	Chemistry - Sendouts
Referred to:	Mayo Clinical Laboratories (MML Test: TDP)
Phone Numbers:	MIN Lab: 612-813-6280
	STP Lab: 651-220-6550
Test Availability:	Daily, 24 hours
Turnaround Time:	2 - 5 days
Special Instructions:	See Patient Preparation
Specimen	
Specimen Type:	Whole blood
Container:	Lavender top (EDTA) tube
Draw Volume:	4 mL (Miinimum: 0.5) mL blood
Processed Volume:	Same as Draw Volume

Collection:	Routine blood collection
Special Processing:	Lab Staff: Invert 8-10 times to mix blood. Do Not centrifuge.Transfer whole blood aliquot to amber vial (Mayo Supply T192) to protect from light. Freeze within 24 hours. Store and ship frozen.
Patient Preparation:	Fasting overnight (12-14 hours). Infants-draw prior to next feeding. Water can be taken as needed.
Sample Rejection:	Gross lipemia; glass vial; clotted specimen; washed erythrocytes not protected from light; mislabeled or unlabeled specimen
Interpretive	
Reference Range:	70 - 180 nmol/L
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Reference Range: Critical Values:	Values for thiamine diphosphate of less than 70 nmol/L are suggestive of
-	Values for thiamine diphosphate of less than 70 nmol/L are suggestive of thiamine deficiency.
Critical Values:	Values for thiamine diphosphate of less than 70 nmol/L are suggestive of thiamine deficiency. N/A Vitamin supplementation and nonfasting specimens may result in elevated