**Vitamin B1, Whole Blood**

**CPT Code:** 84425  
**Order Code:** C2492  
**ABN Requirement:** No  
**Synonyms:** Thiamine  
**Specimen:** Whole Blood  
**Volume:** 3.0 mL  
**Minimum Volume:** 0.6 mL  
**Container:** EDTA (Lavender Top) tube

**Collection:**

**EDTA Whole Blood**

1. Draw and gently invert 8 to 10 times.  
2. Label tube with patient information.  
3. Immediately freeze whole blood in collection tube at -20°C until ready to ship.

**Special Instructions:** Freeze whole blood specimen immediately. Protect specimen from light.

**Transport:** Store EDTA whole blood at -20°C after collection and ship the same day per packaging instructions provided with the Cleveland HeartLab, Inc. shipping box.

- Ship specimen on dry ice

**Stability:**

**Ambient (15-25°C):** Not Acceptable  
**Refrigerated (2-8°C):** 4 hours  
**Frozen (-20°C):** 6 months  
**Deep Frozen (-70°C):** 6 months

**Causes for Rejection:** Specimens other than EDTA whole blood; specimens not protected from light; improper labeling; samples not stored properly; samples older than stability limits; sample received not frozen
**Methodology:** High Performance Liquid Chromatography (HPLC)

**Turn Around Time:** 4-8 days

**Reference Range:**

**Clinical Significance:** Vitamin assay for nutritional status. This assay measures only the active form of thiamine: thiamine diphosphate. Whole blood is the preferred specimen since approximately 80% of thiamine in whole blood is found in red blood cells.