**Lab Dep:** Chemistry  

**Test Name:** VITAMIN D, 25-HYDROXY

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**General Information**

**Lab Order Codes:** VDT  

**Synonyms:** Vitamin D Assay; 25-Hydroxycholecalciferol; 25-OH-Vitamin D; 25-Hydroxy D2, 25-Hydroxy D3; Calcidiol  

**CPT Codes:** 82306 – Calcifediol (25-OH Vitamin D-3)  

**Test Includes:** Total 25-hydroxyvitamin measured in ng/mL.

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**Logistics**

**Test Indications:** The test is used to assess patient's vitamin D status, evaluate hypo and hypercalcemia and to investigate the causes of osteomalacia and rickets. Also useful in monitoring vitamin D replacement therapy.

**Lab Testing Sections:** Chemistry (Performed on the Minneapolis Campus)

**Phone Numbers:**  
MIN Lab: 612-813-6280  
STP Lab: 651-220-6550

**Test Availability:** Daily, 24 hours  

**Turnaround Time:** Performed daily  

**Special Instructions:** See Patient Preparation

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**Specimen**

**Specimen Type:** Blood  

**Container:** Preferred: SST (Gold, marble or red)  
Alternate: Green (LiHep or NaHep), Lavender (EDTA) tubes  

**Draw Volume:** 1.2 mL (Minimum: 0.5 mL) blood  

**Processed Volume:** 0.5 mL (Minimum: 0.15 mL) serum/plasma  

**Collection:** Routine venipuncture, capillary specimens are not recommended
**Special Processing:**
Lab Staff: Centrifuge specimen, remove serum/plasma aliquot into a screw-capped plastic vial. Store at refrigerated temperatures for up to 12 days or at room temperature ≤72 hours.

**Patient Preparation:**
Fasting samples are recommended, but not required

**Sample Rejection:**
Specimens other than those listed above; unlabeled or mislabeled specimens; grossly hemolysis; triglycerides >500 ug/dL that cannot be cleared by ultracentrifugation

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**Interpretive**

**Reference Range:**
All ages: 30 – 100 ng/mL

**Critical Values:**
N/A

**Limitations:**
- Gross hemolysis falsely elevates Vitamin D.
- In patients receiving vitamin D2 supplementation, results that are subtherapeutic should be confirmed using another method, such as LC/MS, before being used for patient management.

**Methodology:**
Chemiluminescent microparticle immunoassay

**References:**
Abbott Architect 2nd Generation Vitamin D, 25 Hydroxy Package Insert, revised June 2016, ref G5-6832/R03, Abbott Laboratories, Abbott Park IL 60064 USA

**Updates:**
4/24/2018: Method and collection container updates