
Lab Dep: Chemistry

Test Name: VITAMIN D, 25-HYDROXY

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.

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: 1 – 6 hours

Special Instructions: See [Patient Preparation](#)

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

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