**Vitamin D, 1,25-Dihydroxy (Vit D 1-25-DOH)**

**TEST NAME**
Vitamin D, 1,25-Dihydroxy (Vit D 1-25-DOH)

**METHODOLOGY**
Quantitative Chemiluminescent Immunoassay

**LOINC CODE**
62290-2

**SPECIMEN REQUIREMENTS**

<table>
<thead>
<tr>
<th>Specimen</th>
<th>Specimen Volume (min)</th>
<th>Specimen Type</th>
<th>Specimen Container</th>
<th>Transport Environment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preferred</td>
<td>1mL (0.5)</td>
<td>Serum</td>
<td>Clot Activator (Red Top, No-Gel)</td>
<td>Refrigerated or Frozen</td>
</tr>
<tr>
<td>Alternate 1</td>
<td>1mL (0.5)</td>
<td>Serum</td>
<td>Clot Activator SST</td>
<td>Refrigerated or Frozen</td>
</tr>
<tr>
<td>Alternate 2</td>
<td>1mL (0.5)</td>
<td>Plasma</td>
<td>EDTA (Lavender Top)</td>
<td>Refrigerated or Frozen</td>
</tr>
</tbody>
</table>

**Instructions**
Allow serum separator or plain red tube to sit for 15-20 minutes at room temperature for proper clot formation.
Centrifuge and separate serum or plasma from cells ASAP or within 2 hours of collection. Transport Refrigerated or Frozen in plastic aliquot tube.
Stability After separation from cells: Ambient: 72 hours; Refrigerated 1 week; Frozen 6 months.

**GENERAL INFORMATION**

**Testing Schedule**
Mon, Wed, Fri

**Expected TAT**
3-5 Days

**Clinical Use**
Vitamin D originating from dietary and endogenous sources is converted to 25-hydroxyvitamin D in the liver, and subsequently to 1-25 Dihydroxy vitamin D in the kidney. Deficiencies of 1-25 Dihydroxy vitamin D, the most active form, cause hypocalcemia, osteomalacia, and related disorders. Measurement is useful in: differentiating primary hyperparathyroidism from hypercalcemia of cancer; distinguishing between vitamin D dependent and vitamin D resistant rickets; monitoring vitamin D status of patients with chronic renal disease; and, assessing compliance to therapy.

**Notes**
This test is used to measure the bio-active form of Vitamin D. This test is also used in the differential diagnosis of hypocalcemia and to monitor patients with renal osteodystrophy or chronic renal failure.

**CPT Code(s)**
82652

**Lab Section**
Immunology - Serology