

Reporting Title: 25HDN:24,25 Dihydroxy VitD Ratio, S

Performing Location: Mayo Clinic Laboratories - Rochester Superior Drive

Ordering Guidance:

The preferred initial test for assessing vitamin D status and most accurately reflects the body's vitamin D stores is the 25-hydroxyvitamin D test; order 25HDN / 25-Hydroxyvitamin D2 and D3, Serum.

In the presence of kidney disease or hypercalcemia, testing of 1,25-dihydroxy vitamin D may be needed to adequately assess vitamin D status; order DHVD / 1,25-Dihydroxyvitamin D, Serum.

Specimen Requirements:

Supplies: Sarstedt Aliquot Tube, 5 mL (T914)

Collection Container/Tube: Red top

Submission Container/Tube: Plastic vial

Specimen Volume: 1.7 mL

Collection Instructions: Within 2 hours of collection, centrifuge and aliquot serum into a plastic vial.

Specimen Type	Temperature	Time	Special Container
Serum	Refrigerated (preferred)	14 days	
	Ambient	7 days	
	Frozen	30 days	

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
2897	25-Hydroxy D2	Numeric	ng/mL	49054-0
2898	25-Hydroxy D3	Numeric	ng/mL	1989-3
83670	25-Hydroxy D Total	Alphanumeric	ng/mL	62292-8
90601	24,25-Dihydroxy VitD Total	Alphanumeric	ng/mL	94672-3
63416	25HDN:24,25 Dihydroxy VitD Ratio, S	Alphanumeric		94673-1

LOINC® and CPT codes are provided by the performing laboratory.

Supplemental Report:

No

Components:

Test Id	Reporting Name	CPT Units	CPT Code	Always Performed	Available Separately
2425R	24,25 Dihydroxy Vitamin D	1	82542	Yes	No
25HDN	25-Hydroxyvitamin D2 and D3, S	1	82306	Yes	Yes

CPT Code Information:

82306

82542

Reference Values:

Interpretative commentary provided based on 25-hydroxyvitamin D (25HDN) to 24,25-dihydroxyvitamin D (24,25D) ratio result.

25HDN to 24,25D Ratio

<25: Normal; also be observed in heterozygous carriers of *CYP24A1* variants

25-80: Seen in patients with low vitamin D or heterozygous *CYP24A1* variants

>80: Indicate probable biallelic *CYP24A1* variant or deletion