



Requisition #: 9900001 Practitioner: NO PHYSICIAN

Patient Name: Report Masked Date of Collection: 12/01/2022

Patient Age: 17 Time of Collection: Not Given

Sex: M Report Date: 8/9/2023

## Vitamin D 25 OH

Metabolic Marker	Reference Range - ng/mL	Patient Value - ng/mL
25-Hydroxy D2		3.0
25-Hydroxy D3		3.0
25-Hydroxy D Total (D2+D3)	40 - 80	3.0 *

<10 ng/mL severe deficiency\*

10-39 ng/mL mild to moderate deficiency\*\*

40-80 ng/mL optimum levels\*\*\*

81-150 ng/mL toxicity possible \*\*\*\*

>150 ng/mL toxic levels \*\*\*\*\*

Could be associated with osteomalacia or rickets

\*\* May be associated with increased risk of osteoporosis or secondary hyperparathyroidism

\*\*\* Optimum levels in the normal population

\*\*\*\* 80ng/mL is the lowest reported level associated with toxicity in patients without primary

hyperparathyroidism who have normal renal function.

\*\*\*\*\* Most patients with toxicity have levels >150ng/mL. Patients with renal failure can have very high 25-OH-VitD levels without any signs of toxicity, as renal conversion to

the active hormone 1, 25-OH-VitD is impaired or absent.

These reference ranges represent clinical decision values that apply to males and females of all ages, rather than population-based reference values. Population reference ranges for 25-OH-VitD vary widely depending on ethnic background, age, geographic location of the studied populations, and the sampling-season. Population-based ranges correlate poorly with serum 25-OH-VitD concentrations that are associated with biologically and clinically relevant Vitamin D effects and are therefore of limited clinical value.

Testing performed at Quest Diagnostics Nichols Institute, Valencia, CA

This test was developed, and its performance characteristics determined by Mosaic Diagnostics Laboratory. It has not been cleared or approved by the US Food and Drug Administration.