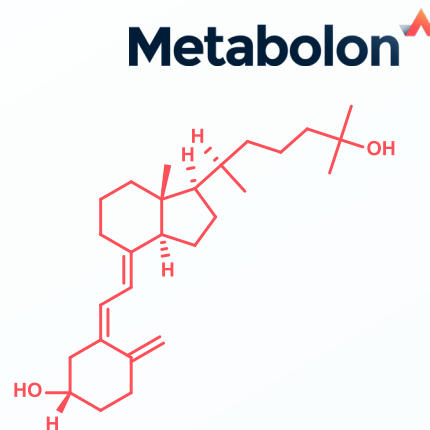




25-Hydroxy Vitamin D Assay



25-Hydroxy Vitamin D2/D3

Vitamin D comprises of a group of secosteroids that play a significant role in calcium homeostasis and bone metabolism. Depending on the biosynthetic sterol precursor, either Vitamin D2 (from dietary ergosterol) or Vitamin D3 (from cholesterol) is formed in the skin in a photochemical reaction. Both are further hydroxylated to 25-hydroxy vitamin D2/D3 and 1,25-dihydroxy vitamin D2/D3, with the latter being the bioactive form. However, due to more favorable half-life in-vivo, the 25-hydroxy vitamin D2/D3 metabolites represent the best biomarkers for the assessment of vitamin D status.

Applications

- ▶ 25-Hydroxy vitamin D2 and D3 are measured. The 25-Hydroxy Vitamin D assay is intended for non-GxP testing and is not for diagnostic use.

25-Hydroxy Vitamin D Assay	LLOQ
	Plasma/Serum
25-Hydroxy vitamin D2 and D3	5.00 ng/mL

The panel is for non-GxP testing and is not for diagnostic use

Analysis Method and Instrumentation

LC-MS/MS (Agilent 1290 Infinity II UHPLC/Sciex QTrap 5500)

Sample Type and Required Amounts

Sample Type	Sample Requirement
Plasma/Serum	100 - 150 μ L
Others on request	

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