

HIGH QUALITY, LOW COST ELISA KITS FROM CALBIOTECH



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Calbiotech 25(OH) Vitamin D ELISA

Calbiotech's 25(OH) Vitamin D ELISA features 100% Cross-reactivity to D2 & D3 and no outside extraction step! This is a sensitive, robust and automation-friendly assay, requiring no external sample preparation and no organic solvents with a 2.5 hour total assay time.

Intended Use

The Calbiotech, Inc. 25-hydroxy Vitamin D ELISA is designed for the quantitation of total 25(OH) Vitamin D in human serum and plasma.

Summary and Explanation

Vitamin D is a steroid hormone involved in the active intestinal absorption of calcium and in the regulation of its homeostasis. Vitamin D has two isomers: Vitamin D2 and Vitamin D3. Vitamin D2 is obtained from dairy products whereas Vitamin D3 is produced in the skin after exposure to ultraviolet light. In the liver, Vitamin D is hydroxylated at its carbon 25 to form 25(OH) Vitamin D. This metabolite is the predominant circulating form of Vitamin D and is considered to be an accurate indicator of the general Vitamin D status of an individual. Vitamin D deficiency has been linked to many diseases including osteoporosis, rickets, osteomalacia, cancers, and cardiovascular diseases. Both dietary supplements of Vitamin D that are currently available in the market (Vitamin D2 and Vitamin D3) are converted to 25(OH) Vitamin D in the liver. The sum of the concentrations of 25(OH) Vitamin D2 and 25(OH) Vitamin D3, in serum or plasma, is referred to as "Total 25(OH) Vitamin D".

Assay Advantages

- Wide dynamic range: 1.25ng/mL to 150ng/mL
- Reproducibility: intra and inter-precision <8%
- Linearity: 90% - 111%
- 100% cross-reactivity to D2 & D3
- Standards traceable to NIST SRM-972A
- Ease of use: No off-well sample extraction
- No organic solvents
- Sensitive, robust & automation-friendly
- 2.5 hour total assay time (90 minute CLIA)
- ELISA & CLIA formats

Assay Procedure

