BIOHIT Total 25OH Vitamin D ELISA Test

Product specifications

- Detects both 25OH vitamin D2 and D3 for a clinically meaningful assessment of vitamin D status
- Calibrated against the ID-LC/MS-MS Reference Measurement Procedure
- User-friendly and fully automatable assay protocol

Ordering details:

REF	Product
602310.02	BIOHIT Total 25OH Vitamin D ELISA, 96 tests

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BIOHIT OYJ ISO 9001 / 13485 / 14001 CERTIFIED

Not available in the United States. In Japan for research use only.
Check availability for other markets.

BIOHIT
Innovating for Health

BIOHIT Total 25OH Vitamin D ELISA Test

FOR A CONCLUSIVE DETERMINATION OF VITAMIN D STATUS

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BIOHIT Total 25OH Vitamin D ELISA Test

Multifunctional vitamin D

Vitamin D has multiple roles in the human body. In addition to its well established role in the regulation of calcium absorption and promoting bone growth, it is recognized for other health benefits including reducing risk of diseases such as type 1 diabetes and common cancers.

Clinical background

Two major forms of vitamin D are important in the human body, vitamin D2 (ergocalciferol) and vitamin D3 (cholecalciferol). Vitamin D3 is the form synthesized in the skin in response to sunlight UVB exposure yet can also be obtained from animal based foods. Vitamin D2, on the other hand, is the form synthesized by plants and is obtained from plant derived foodstuff. Both are metabolized in the liver to their respective 25OH vitamin D3 and D2 forms which are in turn converted to their active form in the kidneys.

The best indicator of vitamin D status is the serum concentration of 25OH vitamin D. For a correct diagnosis of vitamin D deficiency, insufficiency or intoxication, the assay must recognize both the D2 and D3 forms. As both forms have clinical relevance, the total concentration provides the information that can be acted upon.

BIOHIT Total 25OH D ELISA kit

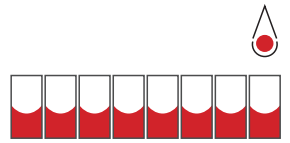
The BIOHIT Total 25OH vitamin D ELISA kit is a quantitative immunoenzymatic assay. While detecting both 25OH vitamin D2 and D3, the kit provides clinically relevant information on the vitamin D status. Reliability of the results is ensured by validation against the ID-LC/MS-MS Reference Measurement Procedure (Ghent method) as approved by the Vitamin D Standardization Program (VDSP) with R>0.97.

The best indicator of vitamin D status is the serum concentration of 25OH vitamin D.

The assay protocol

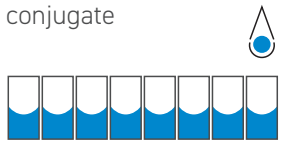
The assay protocol includes just six steps making it easy to perform and reducing the hands-on time. Featuring pretreatment technology performed in the assay microtiter plate well, any open ELISA platform can be easily programmed to run the assay from the start.

1. Add 50 µl of sample, calibrators and controls and 150 µl of incubation buffer to each well.



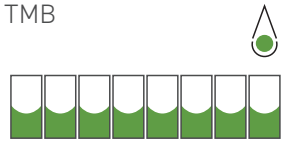
Incubate 120 min at RT with shaking → Wash plate

2. Add 200 µl conjugate



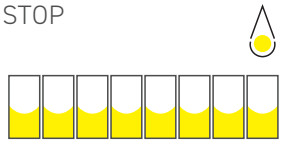
Incubate 30 min at RT with shaking → Wash plate

3. Add 100 µl TMB



4. Incubate 15 min at RT with shaking

5. Add 100 µl STOP



6. Read Absorbance at 450 nm