

General Vitamin D3 (VD3) ELISA Kit | VD3 elisa kit

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CATALOG #
AAA140644

REACTIVITY
General

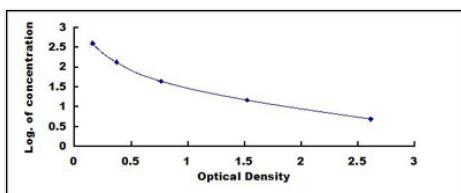
PRODUCT SYNONYMS

Vitamin D3 (VD3); General Vitamin D3 (VD3) ELISA Kit; Cholecalciferol; Toxiferol; Activated 7-Dehydrocholesterol; VD3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	General
Specificity	This assay has high sensitivity and excellent specificity for detection of Vitamin D3 (VD3). No significant cross-reactivity or interference between Vitamin D3 (VD3) and analogues was observed.
Assay Type	Competitive Inhibition
Samples	Serum, Plasma and other biological fluids
Detection Range	4.94-400ng/mL
Sensitivity	2.14ng/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Vitamin D3 (VD3) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Vitamin D3 (VD3) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for VD3 elisa kit	This assay employs the competitive inhibition enzyme immunoassay technique. A monoclonal antibody specific to Vitamin D3 (VD3) has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled Vitamin D3 (VD3) and unlabeled Vitamin D3 (VD3) (Standards or samples) with the pre-coated antibody specific to Vitamin D3 (VD3). After incubation the unbound conjugate is washed off. Next, avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. The amount of bound HRP conjugate is reverse proportional to the concentration of Vitamin D3 (VD3) in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of Vitamin D3 (VD3) in the sample.
Product Categories/Family for VD3 elisa kit	Metabolic pathway; Reproductive science; Nutrition metabolism; Bone metabolism

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/general-elisa-kits/vitamin-d3-vd3/140644>