

Human 25(OH) Vitamin D ELISA Kit

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CATALOG #
AAA14604

REACTIVITY
Human

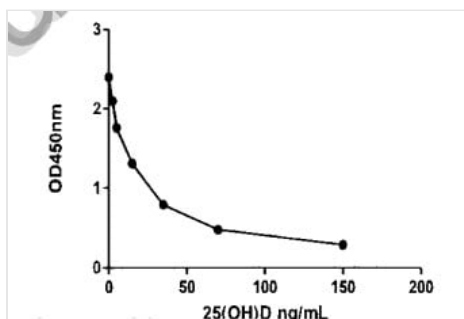
PRODUCT SYNONYMS

25(OH) Vitamin D; 25(OH) Vitamin D ELISA Kit; 25(OH) Vitamin D ELISA; 25(OH) Vitamin D elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Assay Type	Quantitative Competitive
Samples	Human serum and plasma
Preparation and Storage	Product should be stored at 2-8 degree C. Product is stable for 24 months from the date of manufacturing.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for 25(OH) Vitamin D elisa kit

Principle of the Assay: The kit is a solid phase enzyme-linked immunoassay (ELISA), based on the principal of competitive binding. AntiVitamin D antibody coated wells are incubated with Vitamin D standards, controls, samples, and Vitamin D-Biotin conjugate at room temperature for 90 minutes. During the incubation, a fixed amount of biotin-labeled vitamin D competes with the endogenous Vitamin D in the sample, standard, or quality control serum for a fixed number of binding sites on the anti Vitamin D antibody. Following a wash step, bound Vitamin D-Biotin is detected with Streptavidin-HRP (SA-HRP). SA-HRP conjugate immunologically bound to the well progressively decreases as the concentration of Vitamin D in the specimen increases. Unbound SA-HRP conjugate is then removed and the wells are washed. Next, a solution of TMB Reagent is added and incubated at room temperature for 30 minutes, resulting in the development of blue color. The color development is stopped with the addition of stop solution, and the absorbance is measured spectrophotometrically at 450 nm. A standard curve is obtained by plotting the concentration of the standard versus the absorbance. The color intensity will be inversely proportional to the amount of 25-OH Vitamin D in the sample. The assay measures both the 25-OH Vitamin D2 and D3. The total assay procedure run time is 2.5 hours.

Intended Uses: 25-hydroxy (25-OH) Vitamin D ELISA is intended for the quantitative determination of total 25-OH Vitamin D in human serum and plasma. For Research Use Only. Not for use in diagnostic procedures.

Product Categories/Family for 25(OH) Vitamin D elisa kit

[Bone Metabolism Markers](#)

References

1. Holick, MF. Vitamin D Status: Measurement, Interpretation and Clinical Application. Ann Epidemiol. 2009, 19(2):73 - 78
2. Morris H. A. Vitamin D: A Hormone for All Seasons-How Much is enough? Clin. Biochem. Rev., 2005, 26, 21-32.
3. Bikle D. D. Vitamin D and the skin. J. Bone Miner. Metab., 2010, 28, 117-30.
4. Zerwekh J. E. Blood biomarkers of vitamin D status. Am. J. Clin. Nutr., 2008, 87, 1087S-91S.
5. Moyad M. A. Vitamin D: a rapid review. Dermatol Nurs., 2009, 21, 25-30.

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/human-elisa-kits/25-oh-vitamin-d/14604>