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FLUORECARE 25-HYDROXYVITAMIN D₃ 25-OH-D₃



SKU : MF-42

Kategori : Immunology Analyzer

DESKRIPSI PRODUK

The fluorecare® 25-OH-D, based on the principle of the immunochromatographic assay, is used to detect the concentration of 25-OH-D in human serum or plasma by competitive immunodetection method. Adding human serum or plasma into the reaction tube and mixing, the 25-OH-D in the specimen will binds to the fluorescence-labeled detection antibody, to form the 25-OH-D complex. The mixture is added into the specimen adding hole, The complex and residual unbound fluorescence-labeled detection antibody will be diffused along with the nitrocellulose membrane due to the effect of chromatography. In the test line(T) area, the unbound fluorescence-labeled detection antibody will be combined with the coated antigen in the detection line area, the higher concentration of 25-OH-D is, the less the aggregation of the unbound fluorescence-labeled

detection antibody on the detection line, the weaker colour of the fluorescent band under the specific wavelength. The signal intensity of fluorescent antibody is negatively correlated with the concentration of the substance to be measured in the specimens. When the fluorescence-labeled goat-anti-chicken IgY antibody spreads to the quality control line (C) area, the fluorescence-labeled goat-anti-chicken IgY antibody will bind to the chicken IgY antibody wrapped in the quality control line (C) area , regardless of the presence of 25-OH-D in the specimen , to form a fluorescent band at a specific wavelength. When the reaction is over, the instrument can be used to interpret the results. The optical density of the test line and the control line will be analyzed by the instrument. Afterwards, the instrument calculates the concentration of the 25-OH-D according to the formerly set calibration curve and displays the results, with ng/mL as a unit.



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