

General Vitamin B12 (VB12) RTU ELISA Kit | VB12 rtu elisa kit

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CATALOG #
AAA219137

REACTIVITY
General

PRODUCT SYNONYMS

Vitamin B12 (VB12); General Vitamin B12 (VB12) ELISA Kit; CNCbl; Cobalamin; alpha-5; 6-Dimethylbenzimidazolyl Cobamidcyanide; VB12 rtu elisa kit

PRODUCT SPECIFICATIONS

Reactivity	General
Specificity	This assay has high sensitivity and excellent specificity for detection of VB12. No significant cross-reactivity or interference between VB12 and analogues was observed.
Assay Type	Quantitative Competitive
Samples	General serum, plasma, tissue homogenates or other biological fluids
Detection Range	9.37-300ng/mL
Sensitivity	< 3.80ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level VB12 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level VB12 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	For unopened kits: All the reagents should be kept at 4 degree C upon receipt. For opened kits: Once the kit is opened, the remaining reagents still need to be stored according to the above storage conditions. In addition, return the unused wells to the foil pouch containing the desiccant pack and reseal along entire edge of zip-seal.

ADDITIONAL INFORMATION

Related Product Information for VB12 rtu elisa kit

Principle of the Assay: This assay employs the competitive inhibition enzyme immunoassay technique. A monoclonal antibody specific to VB12 has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled VB12 and unlabeled VB12 (Standards or samples) with the pre-coated antibody specific to VB12. 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 VB12 in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of VB12 in the sample.

Intended Uses: The kit is a competitive inhibition enzyme immunoassay technique for the in vitro quantitative measurement of VB12 in general serum, plasma, tissue homogenates or other biological fluids.

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://www.aaabiotech.com/general-rtu-elisa-kits/vitamin-b12-vb12/219137>