

General Vitamin B1 (VB1) CLIA Kit | VB1 clia kit

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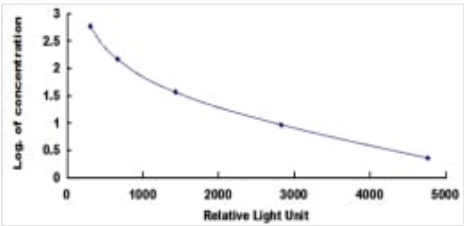
CATALOG #	REACTIVITY	APPLICATIONS
AAA188456	General	CLIA (Chemiluminescence Immunoassay)

PRODUCT SYNONYMS

Vitamin B1 (VB1); General Vitamin B1 (VB1) CLIA Kit; Vitamin B1; Thiamine; Thiamin; Aneurine; VB1 clia kit

PRODUCT SPECIFICATIONS

Reactivity	General
Specificity	This assay has high sensitivity and excellent specificity for detection of Vitamin B1 (VB1). No significant cross-reactivity or interference between Vitamin B1 (VB1) and analogues was observed.
Assay Type	Competitive Inhibition
Samples	Serum, plasma and other biological fluids
Detection Range	2.34-600ng/mL
Sensitivity	The minimum detectable dose of this kit is typically less than 0.93ng/mL
Applicable Applications for VB1 clia kit	CLIA (Chemiluminescence Immunoassay)
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Vitamin B1 (VB1) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Vitamin B1 (VB1) were tested on 3 different plates, 8 replicates in each plate. $CV(\%) = SD/mean \times 100$ Intra-Assay: $CV < 10\%$ Inter-Assay: $CV < 12\%$
Test Principle	The microplate provided in this kit has been pre-coated with a monoclonal antibody specific to Vitamin B1 (VB1). A competitive inhibition reaction is launched between biotin labeled Vitamin B1 (VB1) and unlabeled Vitamin B1 (VB1) (Standards or samples) with the pre-coated antibody specific to Vitamin B1 (VB1). 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 B1 (VB1) in the sample. Then the mixture of substrate A and B is added to generate glow light emission kinetics. Upon plate development, the intensity of the emitted light is reverse proportional to the Vitamin B1 (VB1) level in the sample or standard.
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.



Standard Curve (Sample)

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-clia-kits/vitamin-b1-vb1/188456>