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Datasheet for ABIN5564656

Biotin ELISA Kit

1 Image

Overview

Quantity:	96 tests
Target:	Biotin
Reactivity:	Various Species
Method Type:	Competition ELISA
Detection Range:	32 pg/mL - 20000 pg/mL
Minimum Detection Limit:	32 pg/mL
Application:	ELISA

Product Details

Sample Type:	Cell Culture Supernatant, Cell Lysate, Plasma, Serum, Tissue Homogenate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This assay has high sensitivity and excellent specificity for detection of Vitamin B7 (VB7). No significant cross-reactivity or interference between Vitamin B7 (VB7) and analogues was observed.
Sensitivity:	13 pg/mL
Components:	<ul style="list-style-type: none">• Pre-coated, ready to use 96-well strip plate• Plate sealer for 96 wells• Reference Standard• Standard Diluent• Detection Reagent A• Assay Diluent A

Product Details

- TMB Substrate
- Stop Solution
- Wash Buffer (30 x concentrate)
- Instruction manual

Target Details

Target:	Biotin
Alternative Name:	Vitamin B7 (VB7) (Biotin Products)

Application Details

Sample Volume:	50 µL
Assay Time:	2 h
Plate:	Pre-coated
Protocol:	<ol style="list-style-type: none">1. Prepare all reagents, samples and standards,2. Add 50µL standard or sample to each well. Then add 50µL prepared Detection Reagent A immediately. Shake and mix. Incubate 1 hour at 37 °C,3. Aspirate and wash 3 times,4. Add 100µL prepared Detection Reagent B. Incubate 30 minutes at 37 °C,5. Aspirate and wash 5 times,6. Add 90µL Substrate Solution. Incubate 10-20 minutes at 37 °C,7. Add 50µL Stop Solution. Read at 450 nm immediately.
Assay Precision:	<p>Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Vitamin B7 (VB7) were tested 20 times on one plate, respectively.</p> <p>Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Vitamin B7 (VB7) were tested on 3 different plates, 8 replicates in each plate.</p> <p>$CV(\%) = SD/mean \times 100$</p> <p>Intra-Assay: $CV < 10\%$</p> <p>Inter-Assay: $CV < 12\%$</p>
Restrictions:	For Research Use only

Handling

Precaution of Use:	The Stop Solution suggested for use with this kit is an acid solution. Wear eye, hand, face, and clothing protection when using this material.
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Handling

Handling Advice: 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.

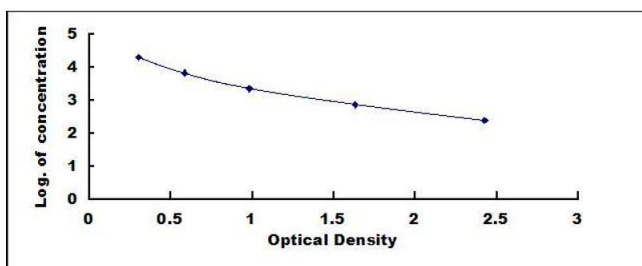
Storage: 4 °C/-20 °C

Storage Comment:

- For unopened kit: All the reagents should be kept according to the labels on vials. The Standard, Detection Reagent A, Detection Reagent B and the 96-well strip plate should be stored at -20°C upon receipt while the others should be at 4°C.
- For opened kit: When the kit is opened, the remaining reagents still need to be stored according to the above storage condition. Besides, please return the unused wells to the foil pouch containing the desiccant pack, and reseal along entire edge of zip-seal.
Note: It is highly recommended to use the remaining reagents within 1 month provided this is within the expiration date of the kit.
- For ELISA kit, 1 day storage at 37°C can be considered as 2 months at 4°C, which means 3 days at 37°C equaling 6 months at 4°C.

Expiry Date: 6 months

Images



ELISA

Image 1.