

General Carnitine (CNT) ELISA Kit | CNT elisa kit

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CATALOG #
AAA182414

REACTIVITY
General

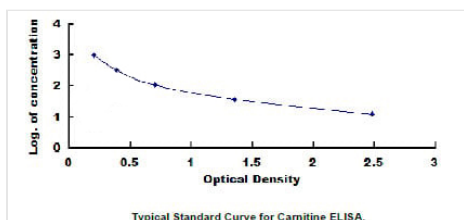
PRODUCT SYNONYMS

Carnitine (CNT); General Carnitine (CNT) ELISA Kit; VB20; Vitamin B20; CNT elisa kit

PRODUCT SPECIFICATIONS

Reactivity	General
Specificity	This assay has high sensitivity and excellent specificity for detection of carnitine. No significant cross-reactivity or interference between carnitine and analogues was observed.
Samples	Serum, Plasma And Other Biological Fluids
Assay Type	Quantitative Competitive
Detection Range	12.35-1,000ng/mL
Sensitivity	5.19ng/mL.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level carnitine 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 carnitine were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
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.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CNT elisa kit	Intended Uses: The kit is a competitive inhibition enzyme immunoassay technique for the in vitro quantitative measurement of carnitine in serum, plasma and other biological fluids. Principle of the Assay: This assay employs the competitive inhibition enzyme immunoassay technique. A monoclonal antibody specific to heparin has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled carnitine and unlabeled carnitine (Standards or samples) with the pre-coated antibody specific to carnitine. 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 carnitine in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of carnitine in the sample.
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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-elisa-kits/carnitine-cnt/182414>