

General Acetylcarnitine (ALCAR) CLIA Kit | ALCAR clia kit

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CATALOG # AAA150370	REACTIVITY General	APPLICATIONS CLIA (Chemiluminescence Immunoassay)
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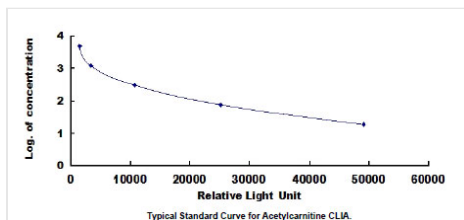
PRODUCT SYNONYMS

Acetylcarnitine (ALCAR); General Acetylcarnitine (ALCAR) CLIA Kit; Acetyl-L-carnitine; ALCAR clia kit

PRODUCT SPECIFICATIONS

Reactivity	General
Specificity	This assay has high sensitivity and excellent specificity for detection of acetylcarnitine. No significant cross-reactivity or interference between acetylcarnitine and analogues was observed.
Assay Type	Competitive Inhibition
Samples	Serum, Plasma and other biological fluids
Detection Range	19.5-5,000ng/mL
Sensitivity	7.7ng/mL
Applicable Applications for ALCAR clia kit	CLIA (Chemiluminescence Immunoassay)
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level acetylcarnitine 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 acetylcarnitine 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 ALCAR clia kit	Intended Uses: The Chemiluminescent Immunoassay kit is designed for the in vitro sensitive quantitative measurement of acetylcarnitine in serum, plasma and other biological fluids. Principle of the Assay: The microplate provided in this kit has been pre-coated with a monoclonal antibody specific to acetylcarnitine. A competitive inhibition reaction is launched between biotin labeled acetylcarnitine and unlabeled acetylcarnitine (Standards or samples) with the pre-coated antibody specific to acetylcarnitine. 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 acetylcarnitine 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 acetylcarnitine level in the sample or standard.
Product Categories/Family for ALCAR clia kit	Metabolic pathway; Neuro science; Nutrition metabolism

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/acetylcarnitine-alcar/150370>