Total Carnitine ELISA Kit for Rat

PRODUCT OVERVIEW

Product Name	Total Carnitine, ELISA Kit
Full Product Name	Rat Total Carnitine ELISA Kit
Species Reactivity	Rat
Assay Type	Sandwich
Samples	Serum, Plasma, Other biological fluids
Specificity	This assay has high sensitivity and excellent specificity for detection of Rat Total Carnitine. No significant cross-reactivity or interference between Rat Total Carnitine and analogues was observed.
Preparation and Storage	Store at 2-8 degree C.
Sample Volume	1-200 uL
Precision	Intra-assay Precision (Precision within an assay) Three samples of known concentration were tested twenty times on one plate to assess intra-assay precision. Inter-assay Precision (Precision between assays) Three samples of known concentration were tested in forty separate assays to assess inter-assay precision. CV (%) = SD/meanX100 Intra-Assay: CV Inter-Assay: CV
Detection Wavelength	450 nm
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Total Carnitine elisa kit	Principle of the Assay: This assay employs a two-site sandwich ELISA to quantitate Total Carnitine in samples. An antibody specific for Total Carnitine has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTotal Carnitine present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for Total Carnitine is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of Total Carnitine bound in the initial step. The color development is stopped and the intensity of the color is measured.
Other Notes	Small volumes of Total Carnitine elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Total Carnitine purchase	MBS280302 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Total Carnitine, ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing Total Carnitine. The ELISA analytical biochemical technique of the MBS280302 kit is based on Total Carnitine antibody-Total Carnitine antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect Total Carnitine antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, Total Carnitine. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

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Online datasheet: https://www.mybiosource.com/rat-elisa-kits/total-carnitine/280302