

Human Citrate Synthase ELISA Kit | CS elisa kit

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CATALOG #
AAA84452

REACTIVITY
Human

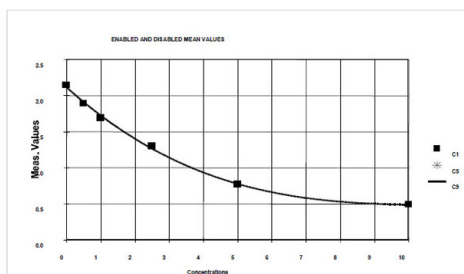
PRODUCT SYNONYMS

Citrate Synthase; Human Citrate Synthase ELISA Kit; CS elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Detection Range	1.0-25ng/mL
Sensitivity	0.1ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CS elisa kit

For Samples: Cell culture fluid & body fluid & tissue homogenate Serum or blood plasma

Intended Uses: This CS ELISA kit is intended for laboratory research use only. The stop solution changes the color from blue to yellow and the intensity of the color is measured at 450 nm using a spectrophotometer. In order to measure the concentration of CS in the sample, this CS ELISA Kit includes a set of calibration standards. The calibration standards are assayed at the same time as the samples and allow the operator to produce a standard curve of Optical Density versus CS concentration. The concentration of in the samples is then determined by comparing the O.D. of the samples to the standard curve.

Principle of the Assay: The coated well immunoenzymatic assay for the quantitative measurement of CS utilizes a monoclonal anti-CS antibody and an CS-HRP conjugate. The assay sample and buffer are incubated together with CS-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the CS concentration since CS from samples and CS-HRP conjugate compete for the anti-CS antibody binding site. Since the number of sites is limited, as more sites are occupied by CS from the sample, fewer sites are left to bind CS-HRP conjugate. Standards of known CS concentrations are run concurrently with the samples being assayed and a standard curve is plotted relating the intensity of the color (Optical Density) to the concentration of CS. The CS concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	16128695
NCBI GeneID	945323
NCBI Accession #	NP_415248.1
NCBI GenBank Nucleotide #	NC_000913.3
UniProt Accession #	P0ABH7; O32552; P00891; P78257
Molecular Weight	48,015 Da
NCBI Official Full Name	citrate synthase
NCBI Official Symbol	gltA
NCBI Official Synonym Symbols	ECK0709; gltT; icdB; JW0710
NCBI Protein Information	citrate synthase
UniProt Protein Name	Citrate synthase
UniProt Gene Name	gltA
UniProt Synonym Gene Names	gltT; icdB; b0720; JW0710
UniProt Entry Name	CISY_ECOLI

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/cs-human-elisa-kits/citrate-synthase/84452>