

## Canine Citrate Synthase ELISA Kit | CS elisa kit

Canine Citrate Synthase ELISA Kit

CATALOG #  
**AAA95682**

REACTIVITY  
**Canine**

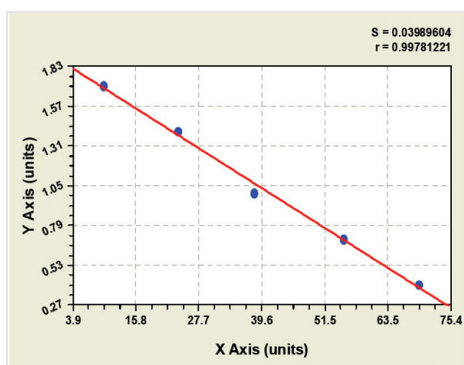
### PRODUCT SYNONYMS

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

### PRODUCT SPECIFICATIONS

|                         |                                                                            |
|-------------------------|----------------------------------------------------------------------------|
| Reactivity              | Canine                                                                     |
| Samples                 | Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate |
| Assay Type              | Competitive                                                                |
| Sensitivity             | 0.1 ng/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

**Intended Uses:** This CS ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Canine CS. This ELISA kit for research use only!

**Principle of the Assay:** CS ELISA kit applies the competitive enzyme immunoassay technique utilizing 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. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. 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             | <b>gltA</b>                    |
| 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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