

Bovine Catalase (CAT) ELISA Kit | CAT elisa kit

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CATALOG # AAA151290	REACTIVITY Bovine
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PRODUCT SYNONYMS

Catalase (CAT); Bovine Catalase (CAT) ELISA Kit; CAT/Catalase; CAT elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Bovine
Specificity	This assay has high sensitivity and excellent specificity for detection of catalase. No significant cross-reactivity or interference between catalase and analogues was observed.
Assay Type	Quantitative Sandwich
Samples	Bovine serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	1.56-100ng/mL
Sensitivity	< 0.61ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level catalase 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 catalase were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	Store at 4 degree C for 1 month/-20 degree C for long-term(within shelf life) Shelf Life: 8 months 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.

ADDITIONAL INFORMATION

Related Product Information for CAT elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to catalase. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to catalase. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain catalase, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of catalase in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of catalase in bovine serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
Product Categories/Family for CAT elisa kit	Enzyme & Kinase; Metabolic pathway; Hepatology

NCBI AND UNIPROT INFORMATION

NCBI GI #	78369302
NCBI GeneID	531682
NCBI Accession #	NP_001030463.1
NCBI GenBank Nucleotide #	NM_001035386.2
UniProt Accession #	P00432; Q3SZ80
Molecular Weight	59,915 Da
NCBI Official Full Name	catalase
NCBI Official Symbol	CAT
NCBI Protein Information	catalase
UniProt Protein Name	Catalase
UniProt Gene Name	CAT
UniProt Entry Name	CATA_BOVIN

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://www.aaabiotech.com/bovine-ovine-elisa-kits/catalase-cat/151290>