

Catalase (CAT) Assay Kit | CAT assay kit

Catalase (CAT) Colorimetric Assay Kit

CATALOG #
AAA174668

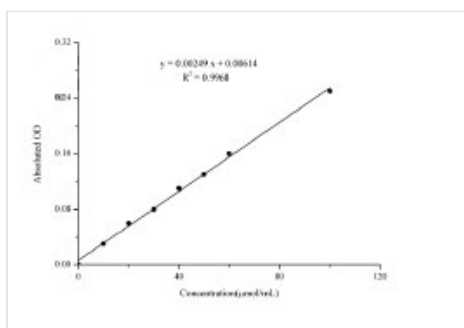
PRODUCT SYNONYMS

Catalase (CAT); Catalase (CAT) Colorimetric Assay Kit; CAT assay kit

PRODUCT SPECIFICATIONS

Specificity	96T (Can detect 40 samples without duplication)
Sequence Length	527
Samples	Serum, plasma, cells, cell culture supernatant and tissue homogenate samples
Detection Range	1.12-150 U/mL
Sensitivity	1.12 U/mL
Intra-assay Precision	The intra-assay CV is 3.9%.
Inter-assay Precision	The inter-assay CV is 7.7%.
Preparation and Storage	Store at 2-8 degree C. Valid for 12 months

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CAT assay kit

Background: CAT is an enzyme in organism that can efficiently and specifically decompose hydrogen peroxide and is a binding enzyme with iron porphyrin as an auxiliary group. CAT clears hydrogen peroxide in the body and protects cells from the toxicity of H₂O₂. CAT can also oxidize certain cytotoxic substances, such as formaldehyde, formic acid, phenol and ethanol. According to the difference of catalytic center structure, CAT can be divided into two types, one is iron porphyrin structure, also known as iron porphyrin enzyme, the other contain manganese ion, also known as manganese catalase. CAT is common in breathing organisms. It is mainly found in chloroplasts, mitochondria, endoplasmic reticulum, liver and red blood cells of animals.

Principle of the Assay: The reaction that CAT decomposes H₂O₂ can be quickly stopped by ammonium molybdate. The residual H₂O₂ reacts with ammonium molybdate to generate a yellowish complex. CAT activity can be calculated by production of the yellowish complex at 405 nm.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557014
NCBI GeneID	847
NCBI GenBank Nucleotide #	NP_001743.1
UniProt Accession #	P04040
NCBI Official Full Name	catalase
NCBI Official Synonym Full Names	catalase
NCBI Official Symbol	CAT
NCBI Protein Information	catalase
UniProt Protein Name	Catalase
UniProt Gene Name	CAT
UniProt Entry Name	CATA_HUMAN

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/assay-kits/catalase-cat/174668>