

## Catalase (CAT)

Cat. No. CAT-35    Lot. No. (See product label)

### SPECIFICATION

**Description**

CAT (Catalase): catalyzes the decomposition of H<sub>2</sub>O<sub>2</sub> into oxygen and water. It mainly exists in mitochondria, endoplasmic reticulum, animal liver and red blood cells, especially in the liver at high concentration, providing antioxidant defense function for the body. In biocatalysis, it is mainly used to remove the reaction by-product hydrogen peroxide and reduce the inhibition and inactivation of enzyme by hydrogen peroxide.

**Applications**

1. Normally, the reaction system should include substrate, buffer solution, enzyme. 2. CAT should be added last into reaction system, after the pH and temperature been adjusted to the reaction condition.

**Notes**

Never contact with extreme conditions such as: high temperature, high/low pH and high concentration organic solvent.

**Storage**

Keep 2 years below -20 centigrade.

**Advantages**

1. High substrate specificity. 2. Strong chiral selectivity. 3. High conversion. 4. Less by-products. 5. Mild reaction conditions. 6. Environmentally friendly.

### GENE INFORMATION

**Official Symbol**      CAT

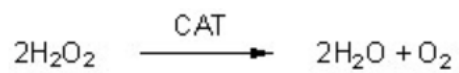
**Synonyms**              Catalase; CAT


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Catalytic reaction  
type



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