

## **Native Murine Catalase**

Cat. No. NATE-0110

Lot. No. (See product label)

## Introduction

**Description** Catalase activates the decomposition of hydrogen peroxide, a reactive oxygen species, into water and

oxygen. It functions as a natural antioxidant, protecting cells against oxidative damage to proteins, lipids and nucleic acids. Catalase has also been used to study the role reactive oxygen species play in gene

expression and apoptosis.

**Synonyms** EC 1.11.1.6; Catalase; catalase; equilase; caperase; optidase; catalase-peroxidase; CAT; H2O2:H2O2

oxidoreductase

## **Product Information**

**Species** Murine

**Source** murine liver

**Form** ammonium sulfate suspension

**EC Number** EC 1.11.1.6

**CAS No.** 9001-05-2

Molecular

tetramer mol wt ~250 kDa

Weight

**Activity** > 500 units/mg protein

Optimum

~7.0

pН

**Buffer** Suspension in 2.7 M (NH4)2SO4 solution, pH 6.5

Pathway Amyotrophic lateral sclerosis (ALS), organism-specific biosystem; Cellular responses to stress, organism-

specific biosystem; FoxO signaling pathway, organism-specific biosystem

Function NADP binding; aminoacylase activity; antioxidant activity

 $\textbf{\textit{Unit}} \qquad \qquad \text{One unit will decompose 1.0 } \mu \text{mole of H2O2 per min at pH 7.0 at 25 °C, while the H2O2 conc. falls from } \\$ 

**Definition** 10.3 to 9.2 mM.

## Storage and Shipping Information

**Stability** 2-8°C

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