

## Native *Aspergillus niger* Catalase

Cat. No. NATE-1641

Lot. No. (See product label)

### Introduction

**Description** Catalase is an enzyme that catalyzes the transformation of hydrogen peroxide into water and oxygen. This enzyme functions as a natural antioxidant protecting the cell against oxidative damage. This enzyme finds applications in Research and Clinical Chemistry. It also finds diverse industrial applications in textiles, waste treatment, cosmetics and as a disinfectant agent.

**Synonyms** EC 1.11.1.6; Catalase; equilase; caperase; optidase; catalase-peroxidase; CAT; H<sub>2</sub>O<sub>2</sub>:H<sub>2</sub>O<sub>2</sub> oxidoreductase

### Product Information

**Source** *Aspergillus niger*

**Form** Liquid

**EC Number** EC 1.11.1.6

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

**Molecular Weight** ~ 96kD

**Activity** ~ 4.9 KU/mg protein

**Unit Definition** One Unit will decompose one  $\mu$ mole of H<sub>2</sub>O<sub>2</sub> per minute at pH 7.0 and 25°C, while the H<sub>2</sub>O<sub>2</sub> concentration falls from 10.3 mM to 9.2 mM. The rate of disappearance of H<sub>2</sub>O<sub>2</sub> is followed by observing the rate of decrease in the absorbance at 240 nm.

### Storage and Shipping Information

**Storage** 4°C