

## 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