

Catalase from Psychrotolerant Bacteria, recombinant (Lyophilized Powder)

Cat. No. NATE-1700

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; H2O2:H2O2

oxidoreductase

Product Information

Species Psychrotolerant Bacteria

Source E. coli

Form Lyophilized Powder

EC Number EC 1.11.1.6

CAS No. 2593710

Molecular Weight ~220 kDa

Activity

> 8000 U/mg protein

Concentration Protein concentration: >40% (w/w)

pH Stability 4.0-9.5

Optimum pH 7.5

Thermal

20-80°C, Keeps 50% of its activity after 7 hours of exposure at 50°C.

stability

Optimum 30-40°C

temperature

Buffer 0.05M Tris HCl pH 8; 0.5M NaCl and glycerol at 20%

Unit One unit is defined as the decomposition of 1umol of H2O22 in 1 Unit Definition minute at 25°C at pH

Definition 7.0. The rate of disappearance of H2O2 is observed at 240 nm.

Storage and Shipping Information

Storage At -20°C, it keeps 100% of its activity for more than two years

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