# Catalase (Crude Enzyme)

*Cat. No. NATE-1795*

*Lot. No.* (See product label)

## Introduction

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| ***Description*** | Catalase is a common enzyme found in nearly all living organisms exposed to oxygen (such as bacteria, plants, and animals). It catalyzes the decomposition of hydrogen peroxide to water and oxygen. It is a very important enzyme in protecting the cell from oxidative damage by reactive oxygen species (ROS). Likewise, catalase has one of the highest turnover numbers of all enzymes; one catalase molecule can convert approximately 5 million molecules of hydrogen peroxide to water and oxygen each minute. This product with the indicated enzyme activity was briefly purified from engineered E. coli. |
| ***Applications*** | medicine; synthesis; analysis; biotechnology; industry |
| ***Synonyms*** | hydrogen-peroxide:hydrogen-peroxide oxidoreductase |

## Product Information

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| ***Source*** | E. coli |
| ***Appearance*** | Clear to translucent yellow solution |
| ***EC Number*** | EC 1.11.1.6 |
| ***CAS No.*** | 9001-05-2 |
| ***Activity*** | Undetermined |
| ***Reaction*** | 2 H 2 O 2 = O 2 + 2 H 2 O |
| ***Notes*** | Since this product needs to be freshly prepared, it will take about 2 weeks after you confirm the order. Each time of the freeze-thawing may cause partial inactivation. Therefore, it should be dispensed as required and stored at -20 ° C or lower. With the preservation of the extension of time, the enzyme activity will decline to a certain extent, so the product should be used as soon as possible. This product may have turbidity or precipitation in the production and preservation process, it can be mixed after melting and will not affect the normal use. This product is limited to scientific research use, shall not be used for clinical diagnosis or treatment, shall not be used for food or medicine, shall not be stored in ordinary residential. For your safety and health, please wear an experimental suit and wear disposable gloves. |

## Usage and Packaging

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| ***Package*** | 100ml |

## Storage and Shipping Information

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| ***Storage*** | at -20 °C or lower, for at least 1 month. |