

## Native Rhizopus sp. Protease

Cat. No. NATE-0629

Lot. No. (See product label)

### Introduction

#### Description

A protease (also called peptidase or proteinase) is any enzyme that performs proteolysis, that is, begins protein catabolism by hydrolysis of the peptide bonds that link amino acids together in a polypeptide chain. Proteases have evolved multiple times, and different classes of protease can perform the same reaction by completely different catalytic mechanisms. Proteases can be found in animals, plants, bacteria, archaea and viruses.

#### Applications

Protease from Rhizopus spp. Has been used in a study to assess the amino acid sequences near the amino termini using automated Edman degradation. It has also been used in a study to investigate inactivation of the enzyme by reaction with diazoacetyl-DL-norleucine methyl ester in the presence of cupric acetate.

#### Synonyms

Protease; peptidase; proteinase; 9001-92-7

### Product Information

#### Source

Rhizopus sp.

#### Form

Supplied as a powder containing dextrin as a stabilizer

#### CAS No.

9001-92-7

#### Activity

> 0.2 unit/mg solid

#### pH Stability

42434

#### Optimum pH

3

#### Unit Definition

One unit will hydrolyze casein to produce color equivalent to 1.0  $\mu$ mole (181  $\mu$ g) of tyrosine per min at pH 3.0 at 37°C (color by Folin-Ciocalteu reagent), unless otherwise indicated.

### Storage and Shipping Information

#### Storage

2-8°C