

## Native Bovine Protease

Cat. No. NATE-0628

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 is an enzyme used to break down proteins by hydrolyzing peptide bonds. Protease is used to degrade proteins, to study protease inhibitors and to study thermal inactivation kinetics. This product is from bovine pancreas. Protease from bovine pancreas (type I) has been used for the extraction of hemicellulose.

#### Synonyms

Protease; peptidase; proteinase; 9001-92-7

### Product Information

#### Species

Bovine

#### Source

bovine pancreas

#### CAS No.

9001-92-7

#### Activity

> 5 units/mg solid

#### 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 7.5 at 37°C (color by Folin-Ciocalteu reagent), unless otherwise indicated.

### Storage and Shipping Information

#### Storage

–20°C