

## **Native Pineapple Bromelain**

Cat. No. NATE-0665

Lot. No. (See product label)

## Introduction

**Description** Bromelain is a cysteine endopeptidase with broad specificity for cleavage of proteins. Bromelain may be

from a stem or piece of fruit. Stem bromelain (SBM) (EC 3.4.22.32), a proteolytic enzyme, is a widely accepted phytotherapeutical drug member of the bromelain family of proteolytic enzymes obtained from Ananas comosus. Some of the therapeutic benefits of SBM are reversible inhibition of platelet

aggregation, angina pectoris, bronchitis, sinusitis, surgical traumas, thrombophlebitis, pyelonephritis and enhanced absorption of drugs, particularly of antibiotics. Its anti-metastasis and anti-inflammatory

activities are apparently independent of its proteolytic activity.

*Applications* Bromelain may be used to inhibit the biosysnthesis of proinflammatory prostaglandins. It may be used to

reduce clotting efficiency. Bromelain, from pineapple stem, has been used to make enzymatic

hydrolysates of honeybee-collected pollen.

**Synonyms** stem bromelain; EC 3.4.22.32; 37189-34-7; bromelain; pineapple stem bromelain; SBM

## **Product Information**

**Species** Pineapple

**Source** Pineapple stem

Form Lyophilized powder containing mannitol and potassium phosphate buffer salts

**EC Number** EC 3.4.22.32

*CAS No.* 37189-34-7

**Activity** > 3 units/mg protein; 5-15 units/mg protein

**Composition** Protein, > 35% biuret

Buffer The product may be suspended in acetate buffer, pH 4.5 at 1 mg/mL concentration, yielding a hazy, off-

white suspension.

Tel: 1-631-562-8517 1-516-512-3133

Unit Definition One unit will release 1.0 micromole of p-nitrophenol from N-alpha-CBZ-L-Lysine p-nitrophenyl ester per minute at pH 4.6 at 25°C. One old titrimetric unit (pH 4.5 at 45°C) is equivalent to approximately 1.7

new units (pH 4.6 at 25°C).