

## Native Bacteria Achropeptidase

Cat. No. NATE-0022

Lot. No. (See product label)

### Introduction

**Description** Lysyl endopeptidase (EC 3.4.21.50, Achromobacter proteinase I, Achromobacter lyticus alkaline proteinase I, protease I, achropeptidase, lysyl bond specific proteinase) is an enzyme. This enzyme catalyses the following chemical reaction: Preferential cleavage: Lys-, including-Lys-Pro-. This enzyme is isolated from Achromobacter lyticus.

**Applications**  $\alpha$ -Hemolysin was used in a study to test the efflux pump and haemolysin activity of Escherichia coli of dairy origin. It was also used to test its adaptation to benzalkonium chloride and the effect of ciprofloxacin on biofilm formation.

**Synonyms** Achromobacter proteinase I; Achromobacter lyticus alkaline proteinase I; protease I; achropeptidase; lysyl bond specific proteinase; EC 3.4.21.50; 123175-82-6; Lysyl endopeptidase

### Product Information

**Source** Bacteria

**Form** lyophilized powder

**EC Number** EC 3.4.21.50

**CAS No.** 123175-82-6

**Molecular Weight** ~27 kDa

**Activity** > 1,000 units/mg solid; > 20,000 units/mg solid

**pH Stability** 8.5-9

**Optimum pH** 8.5-9

**Buffer** H<sub>2</sub>O: soluble 0.49-0.51 mg/mL

**Unit Definition** One unit will produce a change in A<sub>600</sub> of 0.001 per minute per mL at pH 8.0 at 37°C using a suspension of Micrococcus lysodeikticus as substrate (1 cm light path).

### Storage and Shipping Information

**Storage** 2-8°C