

Native Bacillus licheniformis Proteinase

Cat. No. NATE-0639

Lot. No. (See product label)

Introduction

Description Proteinase catabolizes proteins by hydrolysis of peptide bonds. Proteases are inactivated by serine

active-site inhibitors, such as phenylmethylsulfonyl fluoride (PMSF) and diisopropylfluorophosphate.

Applications The enzyme from Creative Enzymes has been used to optimize release of all mit ochondrial populations

from homogenized ventricular tissue of rat heart. It has also been used in the pre-hybridisation treatment of formalin fixed, paraffin wax-embedded liver specimens for detecting human and viral DNA. This is a proteolytic enzyme isolated from the fermentation of Bacillus licheniformis. It is a serine endoproteinase with a broad specificity towards native and denatured proteins, and is active under alkaline conditions. This product also known as Subtilisin Carlsberg, has been used to hydrolyze cardiac cells to study the

silencing of cardiac mit ochondrial NHE1.

Synonyms protease; peptidase; proteinase; EC 3.4.21.62; 9014-01-1; Alkaline Protease; Protease from Bacillus

licheniformis; Proteinase from Bacillus licheniformis; Subtilo peptidase A

Product Information

Source Bacillus licheniformis

Form lyophilized powder

EC Number EC 3.4.21.62

CAS No. 9001-92-7

Molecular

27 KDa

Weight

Purity crystallization

Activity 7.0-14.0 units/mg solid

Specificity Subtilisin A is a member of the Serine S8 Endoproteinase family. It has broad specificity with a

preference for a large uncharged residue in the P1 position. It hydrolyzes native and denatured proteins,

and is active under alkaline conditions.

Unit Definition One unit will hydrolyze casein to produce color equivalent to 1.0 μ mole (181 μ g) of tyrosine per min at

pH 7.5 at 37°C (color by Folin-Ciocalteu reagent).

Storage and Shipping Information

Storage −20°C

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