

## **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
Source Form	Bacillus licheniformis lyophilized powder
Form	lyophilized powder
Form EC Number	lyophilized powder EC 3.4.21.62
Form EC Number CAS No.	lyophilized powder EC 3.4.21.62 9001-92-7
Form EC Number CAS No. Molecular Weight	lyophilized powder EC 3.4.21.62 9001-92-7 27 KDa
Form EC Number CAS No. Molecular Weight Purity	lyophilized powder EC 3.4.21.62 9001-92-7 27 KDa crystallization
Form EC Number CAS No. Molecular Weight Purity Activity	Iyophilized powderEC 3.4.21.629001-92-727 KDacrystallization7.0-14.0 units/mg solidSubtilisin 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