Creative Enzymes®

Native Aspergillus niger Pectinase

Cat. No. NATE-0535

Lot. No. (See product label)

Introduction

Description	Pectolytic enzyme preparation produced from a selected strain of Aspergillus niger:contains mainly pectintranseliminase, polygalacturonase, and pectinesterase and small amounts of hemicellulases and cellulases. Pectinases hydrolyses pectin, which is a component of the cell wall. They may attack methyl-esterified pectin or de-esterified pectin. It is a source of pectinase activity, also containing cellulase and hemicellulase activities.Pectinase catalyzes the random hydrolysis of a-(1-4)-Dgalactosiduronic linkages in pectin and other galacturonans.
Applications	Used in plant protoplast preparation to digest cell wall prior to organelle isolation. Petctinase is an enzyme from Aspergillus niger that is used in plant protoplast preparation to digest cell wall prior to organelle isolation. It has been used to conduct partial saccharification of sugars. Pectinases are used to study their role in the invasion of plant tissues by phytopathogens, the spoilage of produce and various food processing and plant biotechnology applications. This product is suitable for plant cell culture and is provided in an aqueous glycerol solution.
Synonyms	Pectinase; pectin depolymerase; endopolygalacturonase; pectolase; pectin hydrolase; pectin polygalacturonase; endo-polygalacturonase; poly-α-1,4-galacturonide glycanohydrolase; endogalacturonase; endo-D-galacturonase; poly (1,4-α-D-galacturonide) glycanohydrolase; polygalacturonase; EC 3.2.1.15; 9032-75-1

Product Information

Source	Aspergillus niger
Form	Solution in 40% glycerol
EC Number	EC 3.2.1.15
CAS No.	9032-75-1
Activity	> 5 units/mg protein (Lowry)
Unit Definition	One unit will liberate 1.0 µmole of galacturonic acid from polygalacturonic acid per min at pH 4.0 at 25°C.

Storage and Shipping Information

Storage	2-8°C