

Native *Aspergillus japonicus* Pectolyase

Cat. No. NATE-0540

Lot. No. (See product label)

Introduction

Description

Pectolyase catalyzes the eliminative cleavage of α -(1-4)-Dgalacturonan methyl ester to give oligosaccharides with 4-deoxy-6-O-methyl- α -D-galact-4-enuronosyl groups at their non-reducing ends. It contains two types of pectinase, endopolygalacturonase, endo-pectin lyase and a maceration stimulating factor.

Applications

Used in plant protoplast preparation to digest cell wall prior to organelle isolation. Pectolyase P5936 (Pel1) is a natural mixed pectolyase produced by the fungus *Aspergillus japonicus* used to digest components (endopolygalacturonate and pectin) of plant cell walls. Treatment of cell walls with pectolyase can be used to destabilize the cell walls for organelle isolation or to modify the elasticity of the cell walls.

Synonyms

polygalacturonase; pectin depolymerase; pectinase; 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; EC 3.2.1.15; PEL1

Product Information

Source

Aspergillus japonicus

Form

lyophilized powder

EC Number

EC 3.2.1.15

CAS No.

9033-35-6

Activity

> 0.3 units/mg solid

Unit Definition

One unit will liberate 1.0 μ mole of galacturonic acid from polygalacturonic acid per min at pH 5.5 at 25°C.

Storage and Shipping Information

Storage

-20°C