

## Native Rhizopus sp. Pectinase

Cat. No. NATE-0536

Lot. No. (See product label)

### Introduction

**Description** 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.

**Applications** Used in plant protoplast preparation to digest cell wall prior to organelle isolation. Pectinase is an enzyme from Rhizopus sp. that is used in plant protoplast preparation to digest cell wall prior to organelle isolation. It has been used to digest the cell wall of Arabidopsis root cells to study peroxin 16 in peroxisomes and endoplasmic reticulum. 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.

**Synonyms** Pectinase; pectin depolymerase; endopolygalacturonase; pectolase; pectin hydrolase; pectin polygalacturonase; endo-polygalacturonase; poly- $\alpha$ -1,4-galacturonide glycanohydrolase; endogalacturonase; endo-D-galacturonase; poly (1,4- $\alpha$ -D-galacturonide) glycanohydrolase; polygalacturonase; EC 3.2.1.15; 9032-75-1

### Product Information

**Source** Rhizopus sp.

**Form** powder

**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  $\mu$ mole of galacturonic acid from polygalacturonic acid per min at pH 4.0 at 25°C.