

## Pectate Lyase from *Cellvibrio japonicus*, Recombinant

Cat. No. NATE-0909

Lot. No. (See product label)

### Introduction

**Description** Pectate lyase (EC 4.2.2.2) is an enzyme involved in the maceration and soft rotting of plant tissue. Pectate lyase is responsible for the eliminative cleavage of pectate, yielding oligosaccharides with 4-deoxy- $\alpha$ -D-mann-4-enuronosyl groups at their non-reducing ends. The protein is maximally expressed late in pollen development. It has been suggested that the pollen expression of pectate lyase genes might relate to a requirement for pectin degradation during pollen tube growth. This enzyme belongs to the family of lyases, specifically those carbon-oxygen lyases acting on polysaccharides.

**Synonyms** (1 $\rightarrow$ 4)- $\alpha$ -D-galacturonan lyase; polygalacturonic transeliminase; pectic acid transeliminase; polygalacturonate lyase; endopectin methyltranseliminase; pectate transeliminase; endogalacturonate transeliminase; pectic acid lyase; pectic lyase;  $\alpha$ -1,4-D-endopolygalacturonic acid lyase; PGA lyase; PPase-N; endo- $\alpha$ -1,4-polygalacturonic acid lyase; polygalacturonic acid lyase; pectin trans-eliminase; Polygalacturonic acid trans-eliminase; Pectate lyase; EC 4.2.2.2

### Product Information

**Source** *Cellvibrio japonicus*

**Form** Liquid

**EC Number** EC 4.2.2.2

**CAS No.** 9015-75-2

**Molecular Weight** ~ 38kD

**Activity** ~ 470 U/mg protein

**Unit Definition** One Unit is defined as the amount of enzyme required to release one  $\mu$ mole of 4,5-unsaturated product per minute from polygalacturonic acid in the presence of calcium chloride (1 mM) in CAPS buffer at pH 10.0 and 40°C.

### Storage and Shipping Information

**Storage** 4°C