Creative Enzymes®

Alginate lyase from Sphingomonas sp., Recombinant

Cat. No. NATE-0805

Lot. No. (See product label)

Introduction

Description	In enzymology, a poly (beta-D-mannuronate) lyase (EC 4.2.2.3) is an enzyme that catalyzes the chemical reaction:Eliminative cleavage of polysaccharides containing beta-D-mannuronate residues to give oligosaccharides with 4-deoxy-alpha-L-erythro-hex-4-enopyranuronosyl groups at their ends. This enzyme belongs to the family of lyases, specifically those carbon-oxygen lyases acting on polysaccharides. This enzyme participates in fructose and mannose metabolism.
Synonyms	alginate lyase I; alginate lyase; alginase I; alginase II; alginase; poly (β-D-1,4-mannuronide) lyase; EC 4.2.2.3; 40591-57-9

Product Information

Source	Sphingomonas sp.
Form	Liquid
EC Number	EC 4.2.2.3
CAS No.	9024-15-1
Molecular Weight	~ 39.6kD
Activity	~ 125 U/mg protein
Unit Definition	One Unit is defined as the amount of enzyme required to produce an increase in absorbance of 1.0 per minute at 235 nm in Tris-HCl buffer at pH 7.2 and 40°C.

Storage and Shipping Information

Storage	4°C