Creative Enzymes®

Alginate lyase from Saccharophagus degradans, Recombinant

Cat. No. NATE-1545

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

Product Information

Species	Saccharophagus degradans
Source	E. coli
Form	35 mM NaHepes buffer, pH 7.5, 750 mM NaCl, 200 mM imidazol, 3.5 mM CaCl2, 0.02% sodium azide and 25% (v/v) glycerol
EC Number	EC 4.2.2.3
CAS No.	9024-15-1
Molecular Weight	31.7 kDa
Purity	>90% as judged by SDS-PAGE
Concentration	1 mg/mL
Optimum pH	7
Optimum temperature	50 °C
Specificity	Alginates

Storage and Shipping Information

Storage	This enzyme is shipped at room temperature but should be stored at -20 °C.