Creative Enzymes®

mannuronate-specific alginate lyase

Cat. No. EXWM-5103

Lot. No. (See product label)

Introduction

Description	The enzyme catalyses the degradation of alginate by a β-elimination reaction. It cleaves the (1→4) bond between β-D-mannuronate and either α-L-guluronate or β-D-mannuronate, generating oligosaccharides with 4-deoxy-α-L-erythro-hex-4-enuronosyl groups at their non-reducing ends and β-D-mannuronate at the reducing end. Depending on the composition of the substrate, the enzyme produces oligosaccharides ranging from two to four residues, with preference for shorter products. cf. EC 4.2.2.11, guluronate-specific alginate lyase.
Synonyms	alginate lyase I; alginate lyase; alginase I; alginase II; alginase; poly(β-D-1,4-mannuronide) lyase; poly(β-D-mannuronate) lyase; aly (gene name) (ambiguous); poly[(1→4)-β-D-mannuronide] lyase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 4.2.2.3
CAS No.	9024-15-1
Reaction	Eliminative cleavage of alginate to give oligosaccharides with 4-deoxy-α-L-erythro-hex-4-enuronosyl groups at their non-reducing ends and β-D-mannuronate at their reducing end.
Notes	This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

Storage and Shipping Information

Storage	Store it at +4 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.