

Native Alginate Lyase

Cat. No. NATE-0050

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: Elimination 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.

Applications Alginate Lyase is used to break down alginate or alginic acid and to reduce viscosity. It is useful during follicle isolation, encapsulation, and culture.

Synonyms alginate lyase I; alginate lyase; alginase I; alginase II; alginase; poly (β-D-1,4-mannuronide) lyase; EC 4.2.2.3; 9024-15-1

Product Information

Form powder.

EC Number EC 4.2.2.3

CAS No. 9024-15-1

Activity > 10,000 units/g solid

Unit Definition One unit will produce an increase the A_{235nm} of 1.0 per minute per mL of sodium alginate solution at pH 6.3 at 37°C

Storage and Shipping Information

Storage 2-8°C