Creative Enzymes®

# Native Alginate Lyase

*Cat. No. NATE-0050*

*Lot. No.* (See product label)

## Introduction

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| ***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. |
| ***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

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| ***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 A235nm of 1.0 per minute per mL of sodium alginate solution at pH 6.3 at 37°C |

## Storage and Shipping Information

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| ***Storage*** | 2-8°C |