

## mannuronan synthase

Cat. No. EXWM-2567

Lot. No. (See product label)

### Introduction

#### Description

The enzyme catalyses the polymerization of  $\beta$ -D-mannuronate residues into a mannuronan polymer, an intermediate in the biosynthesis of alginate. It is found in brown algae and in alginate-producing bacterial species from the *Pseudomonas* and *Azotobacter* genera.

#### Synonyms

mannuronosyl transferase; alginate synthase (incorrect); alg8 (gene name); alg44 (gene name); GDP-D-mannuronate:alginate D-mannuronyltransferase

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 2.4.1.33

#### CAS No.

37257-31-1

#### Reaction

$\text{GDP-}\alpha\text{-D-mannuronate} + [(1\rightarrow4)\text{-}\beta\text{-D-mannuronosyl}]_n = \text{GDP} + [(1\rightarrow4)\text{-}\beta\text{-D-mannuronosyl}]_{n+1}$

#### 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 °C for short term. For long term storage, store it at -20 °C~-80 °C.