

## guluronate-specific alginate lyase

*Cat. No.* EXWM-5086

*Lot. No.* (See product label)

### Introduction

**Description** The enzyme catalyses the degradation of alginate by a  $\beta$ -elimination reaction. It cleaves the (1 $\rightarrow$ 4) bond between  $\alpha$ -L-guluronate and either  $\alpha$ -L-guluronate or  $\beta$ -D-mannuronate, generating oligosaccharides with 4-deoxy- $\alpha$ -L-erythro-hex-4-enuronosyl groups at their non-reducing ends and  $\alpha$ -L-guluronate at the reducing end. Depending on the composition of the substrate, the enzyme produces oligosaccharides ranging from two to six residues, with preference for shorter products. cf. EC 4.2.2.3, mannuronate-specific alginate lyase.

**Synonyms** alginase II; guluronate lyase; L-guluronan lyase; L-guluronate lyase; poly- $\alpha$ -L-guluronate lyase; polyguluronate-specific alginate lyase; poly( $\alpha$ -L-1,4-guluronide) exo-lyase; poly( $\alpha$ -L-guluronate) lyase; poly[(1 $\rightarrow$ 4)- $\alpha$ -L-guluronide] exo-lyase

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 4.2.2.11

**CAS No.** 64177-88-4

**Reaction** Eliminative cleavage of alginate to give oligosaccharides with 4-deoxy- $\alpha$ -L-erythro-hex-4-enuronosyl groups at their non-reducing ends and  $\alpha$ -L-guluronate 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 °C for short term. For long term storage, store it at -20 °C~-80 °C.