

Lichenase 16A from *Paenibacillus polymyxa*, Recombinant

Cat. No. NATE-1421

Lot. No. (See product label)

Introduction

Description

β -glucanases degrade β -1,4-glucans of cellulose, xyloglucan and β -1,4-xylan. β -Glucanase represents a group of carbohydrate enzymes which break down glycosidic bonds within beta-glucan. It forms the main constituent of fungal cell walls and could be a potential structural and storage polysaccharide of marine macro-algae. It has the ability to degrade fungal cell walls and may be involved in defense mechanism of plants against pathogenic fungi.

Synonyms

endo-1,3- β -D-glucanase; laminarinase; laminaranase; β -1,3-glucanase; β -1,3-1,4-glucanase; endo-1,3- β -glucanase; endo- β -1,3 (4)-glucanase; endo- β -1,3-1,4-glucanase; endo- β -(1 \rightarrow 3)-D-glucanase; endo-1,3-1,4- β -D-glucanase; endo- β -(1-3)-D-glucanase; endo- β -1,3-glucanase IV; endo-1,3- β -D-glucanase; 1,3-(1,3; 1,4)- β -D-glucan 3 (4)-glucanohydrolase; EC 3.2.1.73

Product Information

Species

Paenibacillus polymyxa

Source

E. coli

Form

35 mM NaHepes buffer, pH 7.5, 750 mM NaCl, 200 mM imidazol, 3.5 mM CaCl₂, 0.02% sodium azide and 25% (v/v) glycerol

EC Number

EC 3.2.1.73

CAS No.

37288-51-0

Molecular Weight

26.2 kDa

Purity

>90% by SDS-PAGE

Concentration

1 mg/mL

Optimum pH

7

Optimum temperature

30 °C

Specificity

1,3-1,4- β -glucans

Storage and Shipping Information

Storage

This enzyme is shipped at room temperature but should be stored at -20 °C.