

## Lichenase 26A & Cellulase 5E from Clostridium thermocellum, Recombinant

Cat. No. NATE-1427

Lot. No. (See product label)

## Introduction

**Description** β-glucanases degrade  $\beta$ -1,4-glucans of cellulose, xyloglucan and  $\beta$ -1,4-xylan.  $\beta$ -

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- $\beta$ -glucanase; endo- $\beta$ -1,3 (4)-glucanase; endo- $\beta$ -1,3-1,4-glucanase; endo- $\beta$ -(1-3)-D-glucanase; endo- $\beta$ -(1-3)-D-glucanase; endo- $\beta$ -1,3-glucanase IV; endo-1,3- $\beta$ -D-glucanase; 1,3-(1,3; 1,4)- $\beta$ -D-

glucan 3 (4)-glucanohydrolase; EC 3.2.1.73

## **Product Information**

**Species** Clostridium thermocellum

**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 & EC 3.2.1.4

**CAS No.** 37288-51-0

Molecular Weight 70.4 kDa

**Purity** >90% by SDS-PAGE

**Activity** 800 U/mg

**Concentration** 2 mg/mL

**Optimum pH** 5.0-7.0

**Optimum temperature** 60 °C

**Specificity** Bi-functional enzyme that hydrolyses mixed 1,3-1,4-β-glucans (GH26) and 1,4-β-

glucans (GH5)

## Storage and Shipping Information

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

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