

## Native *Aspergillus niger* $\beta$ -Glucanase

Cat. No. NATE-0766

Lot. No. (See product label)

### Introduction

#### Description

$\beta$ -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- $\beta$ -D-glucanase; laminarinase; laminaranase;  $\beta$ -1,3-glucanase;  $\beta$ -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 $\rightarrow$ 3)-D-glucanase; endo-1,3-1,4- $\beta$ -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 3.2.1.6; 9074-98-0

### Product Information

#### Source

*Aspergillus niger*

#### Form

powder.

#### EC Number

EC 3.2.1.6

#### CAS No.

9074-98-0

#### Activity

~1 units/mg

#### Unit Definition

One unit corresponds to the amount of enzyme which will release 1  $\mu$ mole of reducing sugar equivalents (expressed as glucose) per minute at pH 5.0 and 55°C, using  $\beta$ -D-glucan as substrate

### Storage and Shipping Information

#### Storage

2-8°C