

## Native *Aspergillus niger* Amyloglucosidase

Cat. No. NATE-0075

Lot. No. (See product label)

### Introduction

#### Description

Glucan 1,4- $\alpha$ -glucosidase is an enzyme located on the brush border of the small intestine with system name 4- $\alpha$ -D-glucan glucohydrolase. This enzyme catalyses the following chemical reaction:Hydrolysis of terminal (1- $\rightarrow$ 4)-linked  $\alpha$ -D-glucose residues successively from non-reducing ends of the chains with release of  $\beta$ -D-glucose. Most forms of the enzyme can rapidly hydrolyse 1,6- $\alpha$ -D-glucosidic bonds when the next bond in the sequence is 1,4.

#### Applications

Amyloglucosidase from *Aspergillus niger* is used to hydrolyze  $\alpha$ -D-glucosides. It may be used in the brewing of beer and in the production of bread and juices. Amyloglucosidase has been used to hydrolyze glycogen into glucose monomers in order to study lipid accumulation in skeletal muscle.

#### Synonyms

glucoamylase; amyloglucosidase;  $\gamma$ -amylase; lysosomal  $\alpha$ -glucosidase; acid maltase; exo-1,4- $\alpha$ -glucosidase; glucose amylase;  $\gamma$ -1,4-glucan glucohydrolase; acid maltase; 1,4- $\alpha$ -D-glucan glucohydrolase; EC 3.2.1.3; 9032-08-0

### Product Information

<b>Source</b>	Aspergillus niger
<b>Form</b>	aqueous solution
<b>EC Number</b>	EC 3.2.1.3
<b>CAS No.</b>	9032-08-0
<b>Activity</b>	> 300 U/mL
<b>Concentration</b>	~1.2 g/mL at 25°C