

## Native Saccharomyces cerevisiae α-Glucosidase

Cat. No. NATE-0752

Lot. No. (See product label)

## Introduction

**Description** Alpha-glucosidase is a glucosidase located in the brush border of the small intestine

that acts upon 1,4-alpha bonds. This is in contrast to beta-glucosidase. Alpha-glucosidase breaks down starch and disaccharides to glucose. Maltase, a similar

enzyme that cleaves maltose, is nearly functionally equivalent.

**Applications** For the determination of  $\alpha$ -amylase and the synthesis of various 1'-0-sucrose and

1-O-fructose esters.  $\alpha$ -glucosidase is used for the determination of  $\alpha$ -amylase and the synthesis of various 1´-O-sucrose and 1-O-fructose esters. It was also used in

the measurement of glycosidase inhibition.

 $\textbf{\textit{Synonyms}} \hspace{1cm} \alpha\text{-glucosidase; maltase; glucoinvertase; glucosidosucrase; maltase-glucoamylase;}$ 

 $\alpha$ -glucopyranosidase; glucosidoinvertase;  $\alpha$ -D-glucosidase;  $\alpha$ -glucoside hydrolase;

α-1,4-glucosidase; EC 3.2.1.20; 9001-42-7

## **Product Information**

**Source** Saccharomyces cerevisiae

**Form** lyophilized powder.

**EC Number** EC 3.2.1.20

**CAS No.** 9001-42-7

**Molecular Weight** Mr ~63 kDa

**Activity** 4-8 units/mg; > 10 units/mg protein (using p-nitrophenyl  $\alpha$ -D-glucoside as

substrate.)

Pathway Amino acid transport across the plasma membrane, organism-specific biosystem;

Galactose metabolism, conserved biosystem; Transmembrane transport of small molecules, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Starch and sucrose metabolism, conserved biosystem; Transmembrane

transport of small molecules, organism-specific biosystem

**Function** alpha-1,4-glucosidase activity; cation binding; maltose alpha-glucosidase activity;

hydrolase activity; maltose alpha-glucosidase activity

**Unit Definition** One unit will liberate 1.0  $\mu$ mole of D-glucose from p-nitrophenyl  $\alpha$ -D-glucoside per

min at pH 6.8 at 37°C.

## Storage and Shipping Information

*Storage* −20°C

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