

## 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'-O-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.

**Synonyms**  $\alpha$ -glucosidase; maltase; glucoinvertase; glucosidosucrase; maltase-glucoamylase;  $\alpha$ -glucopyranosidase;

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

Mr ~63 kDa

Weight **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

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.

1/1

**Definition** 

## Storage and Shipping Information

-20°C Storage

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