

## β-Glucosidase 1A from *Thermus thermophilus*, Recombinant

Cat. No. NATE-1431

Lot. No. (See product label)

### Introduction

#### Description

Beta-glucosidase is a glucosidase enzyme that acts upon β1->4 bonds linking two glucose or glucose-substituted molecules (i.e., the disaccharide cellobiose). It is one of the cellulases, enzymes involved in the decomposition of cellulose and related polysaccharides; more specifically, an exocellulase with specificity for a variety of beta-D-glycoside substrates. It catalyzes the hydrolysis of terminal non-reducing residues in beta-D-glucosides with release of glucose.

#### Synonyms

EC 3.2.1.21; gentiobiase; cellobiase; emulsin; elaterase; aryl-beta-glucosidase; beta-D-glucosidase; beta-glucoside glucohydrolase; arbutinase; amygdalinase; p-nitrophenyl beta-glucosidase; primeverosidase; amygdalase; linamarase; salicilase; beta-1,6-glucosidase

### Product Information

#### Species

*Thermus thermophilus*

#### Source

*E. coli*

#### Form

35 mM NaHepes buffer, pH 7.5, 750 mM NaCl, 200 mM imidazol, 3.5 mM CaCl<sub>2</sub>, 0.02% sodium azide and 25% (v/v) glycerol

#### EC Number

EC 3.2.1.21

#### CAS No.

9001-22-3

#### Molecular Weight

50.7 kDa

#### Purity

>90% by SDS-PAGE

#### Concentration

1 mg/mL

#### Optimum pH

6.5

#### Optimum temperature

45-50 °C

#### Specificity

Cellobiose and other β-oligosaccharides

### Storage and Shipping Information

#### Storage

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