

## β-Glucosidase 1A from *Saccharophagus degradans*, Recombinant

Cat. No. NATE-1429

Lot. No. (See product label)

### Introduction

**Description** Beta-glucosidase is a glucosidase enzyme that acts upon  $\beta$ 1- $\rightarrow$ 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; salicilinase; beta-1,6-glucosidase

### Product Information

<b>Species</b>	Saccharophagus degradans
<b>Source</b>	E. coli
<b>Form</b>	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
<b>EC Number</b>	EC 3.2.1.21
<b>CAS No.</b>	9001-22-3
<b>Molecular Weight</b>	54.8 kDa
<b>Purity</b>	>90% by SDS-PAGE
<b>Concentration</b>	0.25 mg/mL
<b>Optimum pH</b>	5.0-8.0
<b>Optimum temperature</b>	37 °C
<b>Specificity</b>	Cellobiose, gentiobiose, sophorose, cellodextrin (DP 2-7), barley $\beta$ -glucan, pNP- $\beta$ -glucose and pNP- $\beta$ -cellobioside to constituent glucose, as well as the $\beta$ -1,4 linkage of lactose to release galactose and glucose

### Storage and Shipping Information

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