Creative Enzymes®

# β-Glucosidase 1A from Bacillus halodurans, Recombinant

*Cat. No. NATE-1432*

*Lot. No.* (See product label)

## Introduction

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| ***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; salicilinase; beta-1,6-glucosidase |

## Product Information

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| ***Species*** | Bacillus halodurans |
| ***Source*** | E. coli |
| ***Form*** | 35 mM NaHepes buffer, pH 7.5, 750 mM NaCl, 200 mM imidazol, 3.5 mM CaCl2, 0.02% sodium azide and 25% (v/v) glycerol |
| ***EC Number*** | EC 3.2.1.21 |
| ***CAS No.*** | 9001-22-3 |
| ***Molecular Weight*** | 53.7 kDa |
| ***Purity*** | >90% by SDS-PAGE |
| ***Concentration*** | 0.25 mg/mL |
| ***Optimum pH*** | 8 |
| ***Optimum temperature*** | 45 °C |
| ***Specificity*** | p-nitrophenyl β-d-glucopyranoside (pNPG) |

## Storage and Shipping Information

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