Creative Enzymes®

# Chitinase 18A from Bacillus licheniformis, Recombinant

*Cat. No. NATE-1378*

*Lot. No.* (See product label)

## Introduction

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| ***Description*** | Chitosanase catalyzes the endohydrolysis of β (1,4) linkages between N-acetyl-D-glucosamine and D-glucosamine residues in partially deacetylated chitosan. Chitosanase from Streptomyces griseus is capable of hydrolyzing both chitosan and carboxymethyl cellulose. It is used for the lysis of cell walls of fungi belonging to the group Mucorales. It is found in several types of microorganisms. |
| ***Synonyms*** | Chitosanase; EC 3.2.1.132; 51570-20-8; Chitosan N-acetylglucosaminohydrolase |

## Product Information

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| ***Species*** | Bacillus licheniformis |
| ***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 3.2.1.14 |
| ***Molecular Weight*** | 49.2 kDa |
| ***Purity*** | >90% by SDS-PAGE |
| ***Concentration*** | 1 mg/mL |
| ***Optimum pH*** | 7.5 |
| ***Optimum temperature*** | 45-55 °C |
| ***Specificity*** | Chitin and chitosan. |

## Storage and Shipping Information

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