

## Chitinase 18A from Clostridium thermocellum, Recombinant

Cat. No. NATE-1379

Lot. No. (See product label)

### Introduction

#### Description

Chitosanase catalyzes the endohydrolysis of  $\beta$  (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

#### Species

Clostridium thermocellum

#### 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 3.2.1.14

#### Molecular Weight

43.9 kDa

#### Purity

>90% by SDS-PAGE

#### Activity

25 U/mg

#### Concentration

1 mg/mL

#### Optimum pH

5.0–7.0

#### Optimum temperature

60 °C

#### Specificity

Chitin and pNP-chitotriose

### Storage and Shipping Information

#### Storage

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