

## Glucoamylase 97A from *Bacteroides thetaiotaomicron*, Recombinant

Cat. No. NATE-1308

Lot. No. (See product label)

### Introduction

**Description** Glucan 1,4- $\alpha$ -glucosidase is an enzyme located on the brush border of the small intestine with system name 4- $\alpha$ -D-glucan glucohydrolase. This enzyme catalyses the following chemical reaction: Hydrolysis of terminal (1- $\rightarrow$ 4)-linked  $\alpha$ -D-glucose residues successively from non-reducing ends of the chains with release of  $\beta$ -D-glucose. Most forms of the enzyme can rapidly hydrolyse 1,6- $\alpha$ -D-glucosidic bonds when the next bond in the sequence is 1,4.

**Synonyms** glucoamylase; amyloglucosidase;  $\gamma$ -amylase; lysosomal  $\alpha$ -glucosidase; acid maltase; exo-1,4- $\alpha$ -glucosidase; glucose amylase;  $\gamma$ -1,4-glucan glucohydrolase; acid maltase; 1,4- $\alpha$ -D-glucan glucohydrolase; EC 3.2.1.3; 9032-08-0

### Product Information

<b>Species</b>	<i>Bacteroides thetaiotaomicron</i>
<b>Source</b>	<i>E. coli</i>
<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 3.2.1.3
<b>CAS No.</b>	9032-08-0
<b>Molecular Weight</b>	84.0 kDa
<b>Purity</b>	>90% by SDS-PAGE
<b>Concentration</b>	1 mg/mL
<b>pH Stability</b>	4.0-12.0
<b>Optimum temperature</b>	45 °C
<b>Specificity</b>	Starch and the artificial substrate 4-methylumbelliferyl $\alpha$ -D-glucoside

### Storage and Shipping Information

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