

## Maltogenic $\alpha$ -amylase 13A from *Thermotoga neapolitana*, Recombinant

Cat. No. NATE-1297

Lot. No. (See product label)

### Introduction

**Description** Glucan 1,4- $\alpha$ -maltohydrolase (EC 3.2.1.133, maltogenic  $\alpha$ -amylase, 1,4- $\alpha$ -D-glucan  $\alpha$ -maltohydrolase) is an enzyme with system name 4- $\alpha$ -D-glucan  $\alpha$ -maltohydrolase. This enzyme catalyses the following chemical reaction: hydrolysis of (1- $\rightarrow$ 4)- $\alpha$ -D-glucosidic linkages in polysaccharides so as to remove successive  $\alpha$ -maltose residues from the non-reducing ends of the chains. This enzyme acts on starch and related polysaccharides and oligosaccharides.

**Synonyms** Glucan 1,4- $\alpha$ -maltohydrolase; EC 3.2.1.133; maltogenic  $\alpha$ -amylase; 1,4- $\alpha$ -D-glucan  $\alpha$ -maltohydrolase; Glucan 1,4- $\alpha$ -maltohydrolase, Maltogenic Amylase, Novamyl 1000BG

### Product Information

<b>Species</b>	<i>Thermotoga neapolitana</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 3.2.1.133
<b>CAS No.</b>	160611-47-2
<b>Molecular Weight</b>	52.1 kD
<b>Purity</b>	>90% by SDS-PAGE
<b>Concentration</b>	1 mg/mL
<b>Optimum pH</b>	6.5
<b>Optimum temperature</b>	75 °C
<b>Specificity</b>	Soluble starch, amylose, amylopectin and glycogen

### Storage and Shipping Information

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