

Maltogenic α -amylase 13A from Lactobacillus gasseri, Recombinant

Cat. No. NATE-1298

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->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-α-maltohydrolase, Maltogenic

Amylase, Novamyl 1000BG

Product Information

Species Lactobacillus gasseri

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 3.2.1.133

CAS No. 160611-47-2

Molecular Weight 55.0 kDa

Purity >90% by SDS-PAGE

Concentration 0.25 mg/mL

Optimum pH 5

Optimum temperature 55 °C

 $\textbf{Specificity} \hspace{1cm} \beta\text{-Cyclodextrin } (\beta\text{-CD}), \, \text{starch and pullulan, thus producing maltose from } \beta\text{-CD and}$

starch, and panose from pullulan. The enzyme activity is strongly inhibited by

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Zn2+, Fe2+, Co2+ and EDTA

Storage and Shipping Information

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

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