

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

Specificity

55 °C

temperature

 β -Cyclodextrin (β -CD), starch and pullulan, thus producing maltose from β -CD and starch, and panose

1/1

from pullulan. The enzyme activity is strongly inhibited by 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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