

Native Lactobacillus reuteri Glucansucrase (α -glucanotransferase)

Cat. No. NATE-0304

Lot. No. (See product label)

Introduction

Description A moderately thermostable Glucansucrase (4,6-Alpha-Glucanotransferase, reuteransucrase). The

enzyme transfers glucose units from sucrose to make a highly branched, high molecular weight alpha-D-

Glucan with α (1 \rightarrow 4) glucosidic linkages and also some α (1 \rightarrow 6) linked glucosyl units.

Synonyms Alpha-glucanotransferase; glucosyltransferase; 4,6-alpha-Glucanotransferase; EC 2.4.1.-

Product Information

Species Lactobacillus reuteri

Source Lactobacillus reuteri strain 121

EC Number EC 2.4.1.-

Optimum pH Solid line, transferase activity; dashed line, hydrolysis activity (Kralj et al. 2004).

Optimum the enzyme has optimum activity around 50°C (Kralj et al. 2004).

temperature

Structure The crystal structure of Gtfa163 Glucansucrase (Reuteransucrase) from Lactobacillus reuteri121 has

been determined and shown here in Figure 1 (Pijning et al. 2012). - PDB entry 4AMC

Unit One unit (U) of enzyme activity is the amount that leads to the release of 1 μmol of fructose from

Definition sucrose per minute.