

Native Trichoderma sp. Mutanase

Cat. No. NATE-1751

Lot. No. (See product label)

Introduction

Description

This product is a mutanase preparation derived from Trichoderma sp. The enzyme catalyzes the hydrolysis of α -1,3 Glucan(Mutan), which is main substance of dental plaque.

Applications

1. Conventional dental care products (tooth paste, antiseptic mouthwash, etc.) contain Dextranase (α -1,6 Glucanase). So, dextran can be easily decomposed by conventional dental care products. 2. However, mutan, the main structure of dental plaque which is water-insoluble, can not be decomposed by dextranase and remains in the mouth. 3. Mutanase can decompose dental plaque mutan. So, it can be applied to dental care products.

Synonyms

endo-1,3- α -glucanase; endo-(1 \rightarrow 3)- α -glucanase; cariogenase; cariogenanase; endo-1,3- α -D-glucanase; 1,3(1,3;1,4)- α -D-glucan 3-glucanohydrolase

Product Information

Source

Trichoderma sp .

Appearance

Yellow-light brown, powder

EC Number

EC 3.2.1.59

CAS No.

9075-84-7

Activity

> 1,000 unit/g (at 45 °C, pH 5.0.)

pH Stability

pH 4.0-6.5

Optimum pH

pH 5.0-5.5

Thermal stability

stable at 70°C

Optimum temperature

20~45°C

Usage and Packaging

Package

10 L, 20 L LDPE bottle (Liquid); Available in both liquid and powdered forms.

Storage and Shipping Information

Storage

store under cool and dry condition