Creative Enzymes®

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→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