Creative Enzymes®

Native Trichoderma reesei Cellulase

Cat. No. NATE-0120

Lot. No. (See product label)

Introduction

Description Cellulase refers to a family of enzymes which act in concert to hydrolyze cellulose. Trichoderma reesei has an extensively studied cellulase enzyme complex. This complex converts crystalline, amorphous, and chemically derived celluloses quantitatively to glucose..

Applications Digestive tablets Removal or softening of cellulose in food preparation Protoplast preparation from plants Various manufacturing processes

Synonyms endo-1,4-β-D-glucanase; β-1,4-glucanase; β-1,4-endoglucan hydrolase; celluase A; cellulosin AP; endoglucanase D; alkali cellulase; cellulase A 3; celludextrinase; 9.5 cellulase; avicelase; pancellase SS; 1,4-(1,3; 1,4)-β-D-glucan 4-glucanohydrolase; EC 3.2.1.4

Product Information

Source	Trichoderma reesei ATCC26921
Form	Lyophilized powder
EC Number	EC 3.2.1.4
CAS No.	9012-54-8
Activity	Type 1 > 25 units per mg dry weight; Type 2 > 45 units per mg dry weight
Isoelectric point	4.5-7.2
pH Stability	4.2 - 5.2
Activators	Nonionic detergents like Triton X-100
Inhibitors	Carbohydrates, particularly cellobiose and excess cellulose
Unit Definition	One Unit releases 0.01 milligrams of glucose per hour from microcrystalline cellulose at 37°C, pH 5.0.

Storage and Shipping Information

Storage 2-8°C