Creative Enzymes®

Native Trichoderma longibrachiatum β-Glucanase

Cat. No. NATE-0768

Lot. No. (See product label)

Introduction

Description	β-glucanases degrade β-1,4-glucans of cellulose, xyloglucan and β-1,4-xylan. β-Glucanase represents a group of carbohydrate enzymes which break down glycosidic bonds within beta-glucan. It forms the main constituent of fungal cell walls and could be a potential structural and storage polysaccharide of marine macro-algae. It has the ability to degrade fungal cell walls and may be involved in defense mechanism of plants against pathogenic fungi.
Applications	β-Glucanase was used as a cellulase enzyme in the combined biological and chemical pretreatment method for lignocellulosic ethanol production from energy cane. It was also used in the enzymatic saccharification of cellulose and production of ethanol.
Synonyms	endo-1,3-β-D-glucanase; laminarinase; laminaranase; β-1,3-glucanase; β-1,3-1,4-glucanase; endo-1,3-β-glucanase; endo-β-1,3 (4)-glucanase; endo-β-1,3-1,4-glucanase; endo-β-(1→3)-D-glucanase; endo-1,3-1,4-β-D-glucanase; endo-β-(1-3)-D-glucanase; endo-β-1,3-glucanase IV; endo-1,3-β-D-glucanase; 1,3-(1,3; 1,4)-β-D-glucan 3 (4)-glucanohydrolase; EC 3.2.1.6

Product Information

Source	Trichoderma longibrachiatum
Form	powder. contains maltodextrin, silica and sodium benzoate
EC Number	EC 3.2.1.6
CAS No.	62213-14-3
Unit Definition	One unit will liberate 1.0 μmole of glucose from cellulose in one hr at pH 5.0 at 37°C (2 hr incubation time).