Creative Enzymes®

Lichenase 26A & Cellulase 5E from Clostridium thermocellum, Recombinant

Cat. No. NATE-1427

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.
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 3.2.1.73

Product Information

Species	Clostridium thermocellum
Source	E. coli
Form	35 mM NaHepes buffer, pH 7.5, 750 mM NaCl, 200 mM imidazol, 3.5 mM CaCl2, 0.02% sodium azide and 25% (v/v) glycerol
EC Number	EC 3.2.1.73 & EC 3.2.1.4
CAS No.	37288-51-0
Molecular Weight	70.4 kDa
Purity	>90% by SDS-PAGE
Activity	800 U/mg
Concentration	2 mg/mL
Optimum pH	5.0-7.0
Optimum temperature	60 °C
Specificity	Bi-functional enzyme that hydrolyses mixed 1,3-1,4-β-glucans (GH26) and 1,4-β-glucans (GH5)

Storage and Shipping Information

Storage	This enzyme is shipped at room temperature but should be stored at -20 °C.