Creative Enzymes®

β-Glucanase 2, thermostable, Recombinant

Cat. No. NATE-0765

Lot. No. (See product label)

Introduction

Description	Beta-glucosidase is a glucosidase enzyme located in on the brush border of the small intestine that acts upon β1->4 bonds linking two glucose or glucose-substituted molecules (i.e., the disaccharide cellobiose). It is one of the cellulases, enzymes involved in the decomposition of cellulose and related polysaccharides; more specifically, an exocellulase with specificity for a variety of beta-D-glycoside substrates. It catalyzes the hydrolysis of terminal non-reducing residues in beta-D-glucosides with release of glucose.
Applications	β-Glucanase is used to study cell wall modifications and for carbohydrate hydrolysis. It has been used to supplement barley-based diets for poultry and to study the reopening signal conduits and release of dormancy in the Populus species.
Synonyms	β-Glucanase 2; β-Glucanase 2, thermostable; 62213-14-3

Product Information

Source	E. coli
Form	liquid, Supplied as a solution in 50 mM Tris-HCl, pH 7.5, 100 mM NaCl, and 25% glycerol.
CAS No.	62213-14-3
Molecular Weight	mol wt 38 kDa
Purity	> 20 mg protein/mL (Bradford) > 90% (SDS-PAGE)
Activity	> 1.0 units/mg protein
Unit Definition	One unit will produce 1 µmole of reducing sugar (measured as glucose) from Beta-glucan per minute at pH 5.8 at 70°C.

Storage and Shipping Information

Storage	2-8°C