

β-Glucanase 1, thermostable, Recombinant

Cat. No. NATE-0764

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 β 1- \rightarrow 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 1; β-Glucanase 1, thermostable; 62213-14-3

Product Information

Source

E. coli

Form

liquid, Supplied as a solution in 50 mM Tris-HCl, pH 8.0, 100 mM NaCl, and 25% glycerol.

CAS No.

62213-14-3

Molecular Weight

mol wt 45 kDa

Purity

> 90% (SDS-PAGE) 19-21 mg protein/mL (280 nm, UV)

Activity

> 10 units/mg protein

Unit Definition

One unit will produce 1 μ mole 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