Creative Enzymes®

Native Streptococcus pneumoniae β(1-4)-Galactosidase

Cat. No. NATE-0974

Lot. No. (See product label)

Introduction

Description	The enzyme releases non-reducing terminal β(1-4)-linked galactose from oligosaccharides and glycoproteins. This specificity is only evident at enzyme concentrations < 100mU/ml. At higher concentrations, hydrolysis of β(1-3)-linked galactose occurs.
Applications	Due to its high selectivity the enzyme is an extremely useful reagent for the identification of non-reducing terminal β(1-4)-linked galactose residues. As such the enzyme has been extensively used for detailed structural analysis in conjunction with broader specificity bovine testes β-galactosidase or Jack bean β-galactosidase.
Synonyms	β-galactosidase; beta-gal; β-gal; lactase; β-lactosidase; maxilact; hydrolact; β-D-lactosidase; lactozym; trilactase; β-D-galactanase; oryzatym; sumiklat; β-D-galactoside galactohydrolase

Product Information

Source	Streptococcus pneumoniae
Form	20 mM Tris-HCl, 25 mM NaCl (pH 7.5)
Molecular Weight	220-247 kD
Optimum pH	6
Buffer	5X concentrated buffer which when diluted gives 50 mM sodium phosphate pH 6.0.
Unit Definition	One unit is defined as the amount of enzyme required to hydrolyze 1 μmole oNP-β-D-galactopyranoside per min at pH 6.0 and 37°C.