

## Native *Streptococcus pneumoniae* $\beta$ (1-4)-Galactosidase

Cat. No. NATE-0974

Lot. No. (See product label)

### Introduction

**Description** The enzyme releases non-reducing terminal  $\beta$ (1-4)-linked galactose from oligosaccharides and glycoproteins. This specificity is only evident at enzyme concentrations < 100mU/ml. At higher concentrations, hydrolysis of  $\beta$ (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  $\beta$ (1-4)-linked galactose residues. As such the enzyme has been extensively used for detailed structural analysis in conjunction with broader specificity bovine testes  $\beta$ -galactosidase or Jack bean  $\beta$ -galactosidase.

**Synonyms**  $\beta$ -galactosidase; beta-gal;  $\beta$ -gal; lactase;  $\beta$ -lactosidase; maxilact; hydrolact;  $\beta$ -D-lactosidase; lactozym; trilactase;  $\beta$ -D-galactanase; oryzatym; sumiklat;  $\beta$ -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  $\mu$ mole oNP- $\beta$ -D-galactopyranoside per min at pH 6.0 and 37°C.