

## Native Escherichia coli $\beta$ -Galactosidase-biotin labeled

Cat. No. NATE-1585

Lot. No. (See product label)

### Introduction

**Description**  $\beta$ -galactosidase is a hydrolase enzyme that catalyzes the hydrolysis of  $\beta$ -galactosides into monosaccharides. Substrates of different  $\beta$ -galactosidases include ganglioside GM1, lactosylceramides, lactose, and various glycoproteins.

**Applications**  $\beta$ -Galactosidase was used as a control antigen in the selection of human antibody fragments by phage display.

**Synonyms**  $\beta$ -galactosidase; beta-gal;  $\beta$ -gal; EC 3.2.1.23; lactase;  $\beta$ -lactosidase; maxilact; hydrolact;  $\beta$ -D-lactosidase; S 2107; lactozym; trilactase;  $\beta$ -D-galactanase; oryzatym; sumiklat;  $\beta$ -D-galactoside galactohydrolase

### Product Information

**Source** E. coli

**Form** Lyophilized powder containing Tris-acetate, DTT, MgCl<sub>2</sub>, and isopropyl  $\beta$ -D-thiogalactopyranoside

**Activity** 350-1200 units/mg protein

**Structure** 2-5 mol d-biotin per mol protein

**Composition** Protein, ~75% E1%/280

**Unit Definition** One unit will hydrolyze 1.0  $\mu$ mole of o-nitrophenyl  $\beta$ -D-galactoside per min at pH 7.3 at 37 °C.