

## Native Bovine $\beta$ -Galactosidase

Cat. No. NATE-0294

Lot. No. (See product label)

### Introduction

#### Description

$\beta$ -galactosidase, also called beta-gal or  $\beta$ -gal, 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 in the production of a stabilized, single reagent for alcohol analysis.

#### Synonyms

$\beta$ -Galactosidase; beta-gal;  $\beta$ -gal; GLB; 9031-11-2; EC 3.2.1.23; lactase;  $\beta$ -lactosidase; maxilact; hydrolact;  $\beta$ -D-lactosidase; S 2107; lactozym; trilactase;  $\beta$ -D-galactanase; oryzatym; sumiklat

### Product Information

#### Species

Bovine

#### Source

Bovine liver

#### Form

lyophilized powder.

#### EC Number

EC 3.2.1.23

#### CAS No.

9031-11-2

#### Activity

> 0.15 units/mg protein

#### Pathway

Defective ALG11 causes ALG11-CDG (CDG-1p), organism-specific biosystem;  
Defective ALG6 causes ALG6-CDG (CDG-1c), organism-specific biosystem;  
Defective B4GALT7 causes EDS, progeroid type, organism-specific biosystem

#### Function

beta-galactosidase activity

#### Unit Definition

One unit will hydrolyze 1.0  $\mu$ mole of o-nitrophenyl  $\beta$ -D-galactoside to o-nitrophenol and D-galactose per min at pH 7.3 at 37°C.

### Storage and Shipping Information

#### Storage

-20°C