

## β-Galactosidase 42A from Bifidobacterium longum, Recombinant

Cat. No. NATE-1393

Lot. No. (See product label)

### Introduction

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

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

### Product Information

**Species** Bifidobacterium longum

**Source** E. coli

**Form** 35 mM NaHepes buffer, pH 7.5, 750 mM NaCl, 200 mM imidazol, 3.5 mM CaCl<sub>2</sub>, 0.02% sodium azide and 25% (v/v) glycerol

**EC Number** EC 3.2.1.23

**CAS No.** 9031-11-2

**Molecular Weight** 79.9 kDa

**Purity** >90% by SDS-PAGE

**Concentration** 1 mg/mL

**Optimum pH** 6.5

**Optimum temperature** 30 °C

**Specificity** 3-galactosylglucose, 3-galactobiosyllactose, 3-galactobiose and 6-galactobiose

### Storage and Shipping Information

**Storage** This enzyme is shipped at room temperature but should be stored at -20 °C.