

## β-Galactosidase 42A from *Thermotoga maritima*, Recombinant

Cat. No. NATE-1395

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** *Thermotoga maritima*

**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** 81.2 kDa

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

**Concentration** 0.25 mg/mL

**Optimum pH** 5.5

**Optimum temperature** 80 °C

**Specificity** Broad substrate specificity with a preference for p-nitrophenyl-b-galactopyranoside (pNPGal)

### Storage and Shipping Information

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