

## Galactan 1,3- $\beta$ -galactosidase from *Clostridium thermocellum*, Recombinant

Cat. No. NATE-1206

Lot. No. (See product label)

### Introduction

#### Description

Galactan 1,3-beta-galactosidase (EC 3.2.1.145, galactan (1->3)-beta-D-galactosidase) is an enzyme with system name galactan 3-beta-D-galactosidase. This enzyme catalyses the following chemical reaction: Hydrolysis of terminal, non-reducing beta-D-galactose residues in (1->3)-beta-D-galactopyranans. This enzyme removes not only free galactose, but also 6-glycosylated residues.

#### Synonyms

Exo- $\beta$ -1,3-galactosidase; galactan 3- $\beta$ -D-galactosidase; exo-beta-1,3-galactosidase; galactan 1,3-beta-galactosidase; galactan 3-betaD-galactosidase

### Product Information

#### Source

*Clostridium thermocellum* ATCC 27405

#### Form

Lyophilised powder

#### EC Number

EC 3.2.1.145

#### CAS No.

161515-48-6

#### Molecular Weight

37692 Da

#### Purity

> 95 % as judged by SDS-PAGE

#### Activity

20 U/mg

#### Optimum pH

6 (stable from 3 - 10)

#### Optimum temperature

50°C (stable up to 55°C)

#### Unit Definition

One unit is defined as the amount of enzyme required to release 1 $\mu$ mol of galactose-reducing-sugar equivalents per minute from  $\beta$ -1,3- galactan in phosphate buffer, pH 6.0, at 60°C.

### Usage and Packaging

#### Preparation Instructions

Dissolve to 0.8 mg/mL in 50 mM phosphate buffer, pH 6.0, containing 20 mM NaCl and aliquot for storage at -20°C. The enzyme should be stable for 6 months when stored in this manner.

### Storage and Shipping Information

#### Storage

Store at -20°C (shipped at room temperature)