

## β-Xylosidase from *Bacillus subtilis*, Recombinant

Cat. No. NATE-1190

Lot. No. (See product label)

### Introduction

#### Description

Releases reducing sugars from birchwood xylan (X0502), also catalyzes the hydrolysis of 4-methylumbelliferyl-β-D-cellobioside and 4-methylumbelliferyl-β-D-glucopyranoside. This enzyme does not possess endo-xylanase, arabinoxylanase or β-glucanase activities. β-Xylosidase undergoes post-translation glycosylation which has been shown to be critical for its proper activity and stability. Deglycosylation altered the the optimum temperature and pH for activity and decreased its thermostability.

#### Synonyms

β-Xylosidase; β-Xylosidase, thermostable; 9025-53-0

### Product Information

#### Source

*Bacillus subtilis* subsp. *subtilis* str. 168

#### Form

Supplied in 3.2 M ammonium sulphate

#### EC Number

EC 3.2.1.37

#### CAS No.

9025-53-0

#### Molecular Weight

64909.6 Da

#### Purity

> 95 % as judged by SDS-PAGE

#### Activity

20.67 U/mg

#### Concentration

77.61 U/ml

#### Optimum pH

7

#### Optimum temperature

> 35°C

#### Unit Definition

One unit is defined as the amount of enzyme required to release 1μmol of oNP per minute from oNP-β-D-xylopyranoside (5 mM) in 50 mM sodium phosphate buffer, pH 7.0, containing 1 mg/mL BSA, at 35°C, and using an extinction coefficient of 18000 M<sup>-1</sup>cm<sup>-1</sup>.

### Storage and Shipping Information

#### Storage

Store at 4°C (shipped at room temperature)