Creative Enzymes®

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-1cm-1.

Storage and Shipping Information

Storage	Store at 4°C (shipped at room temperature)