

endo-1,4-β-Xylanase from Clostridium thermocellum, Recombinant

Cat. No. NATE-1202

Lot. No. (See product label)

Introduction

Description Xylanase is the name given to a class of enzymes which degrade the linear polysaccharide beta-1,4-

xylan into xylose, thus breaking down hemicellulose, one of the major components of plant cell walls. As such, it plays a major role in micro-organisms thriving on plant sources for the degradation of plant

matter into usable nutrients. Xylanases are produced by fungi, bacteria, yeast, marine algae, protozoans, snails, crustaceans, insect, seeds, etc., (mammals do not produce xylanases).

Synonyms EC 3.2.1.8; endo- $(1\rightarrow 4)$ -β-xylan 4-xylanohydrolase; endo-1,4-xylanase; xylanase; β-1,4-xylanase; endo-

1,4-xylanase; endo- β -1,4-xylanase; endo-1,4- β -D-xylanase; 1,4- β -xylan xylanohydrolase; β -xylanase; β -xy

1,4-xylan xylanohydrolase; endo-1,4- β -xylanase; β -D-xylanase; endo-1,4- β -xylanase

Product Information

Source Clostridium thermocellum

Form Supplied in 3.2 M ammonium sulphate

EC Number EC 3.2.1.8

CAS No. 9025-57-4

Molecular 39474.6 Da

Weight

Purity > 95 % as judged by SDS-PAGE

Activity 2500 U/mg

Concentration 3750 U/ml

Optimum pH 6.5 (stable from 4.5 – 8.0)

Optimum 65°C (stable up to 70°C)

temperature

Unit One unit is defined as the amount of enzyme required to release 1µmol of xylose-reducing-sugar

Definition equivalents per minute from xylan in phosphate-Citrate (PC) buffer (50 mM K2HPO4, 12 mM citric acid,

pH 6.5) at 60°C.

Storage and Shipping Information

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

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1/1