

## Xylanase 11A & Acetyl xylan esterase 4A from Clostridium thermocellum, Recombinant

Cat. No. NATE-1536

Lot. No. (See product label)

### Introduction

#### Description

In enzymology, an acetyl xylan esterase (EC 3.1.1.72) is an enzyme that catalyzes a chemical reaction, the deacetylation of xylans and xylo-oligosaccharides. This enzyme belongs to the family of hydrolases, specifically those acting on carboxylic ester bonds.

#### Synonyms

Acetyl xylan esterase; EC 3.1.1.72; 188959-24-2; 9000-82-2

### Product Information

#### Species

Clostridium thermocellum

#### 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 3.2.1.8 and 3.1.1.72

#### Molecular Weight

72.5 kDa

#### Purity

>90% as judged by SDS-PAGE

#### Concentration

0.75 mg/mL

#### Optimum pH

4.5-8.0

#### Optimum temperature

65 °C

#### Specificity

Xylans, such as oat spelt xylan and arabinoxylan (GH11), and removes acetate from acetylated xylan (CE4)

### Storage and Shipping Information

#### Storage

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