

## Acetyl xylan esterase from *Clostridium thermocellum*, Recombinant

Cat. No. NATE-1195

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

#### Source

*Clostridium thermocellum*

#### Form

Supplied in 3.2 M ammonium sulphate

#### EC Number

EC 3.1.1.72

#### CAS No.

188959-24-2; 9000-82-2

#### Molecular Weight

37700 Da

#### Purity

> 95 % as judged by SDS-PAGE

#### Activity

175 U/mg

#### Concentration

262.5 U/ml

#### Optimum pH

7

#### Optimum temperature

50°C

#### Unit Definition

One unit is defined as the amount of enzyme required to release 1 µmol of p-nitrophenol per minute from p-nitrophenyl acetate (1 mM) in 50 mM phosphate buffer, pH 7, at 50°C, containing 1 mg/ml of BSA.

### Storage and Shipping Information

#### Storage

Store at 4°C (shipped at room temperature)