

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

Cat. No. NATE-1195

Lot. No. (See product label)

### Introduction

**Description** In enzymology, an acetylxylan 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** Acetylxylan 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)