

## Native *Pichia pastoris* Alcohol Oxidase

Cat. No. NATE-0047

Lot. No. (See product label)

### Introduction

**Description** In enzymology, an alcohol oxidase (EC 1.1.3.13) is an enzyme that catalyzes the chemical reaction: a primary alcohol + O<sub>2</sub> ⇌ an aldehyde + H<sub>2</sub>O<sub>2</sub>. Thus, the two substrates of this enzyme are primary alcohol and O<sub>2</sub>, whereas its two products are aldehyde and H<sub>2</sub>O<sub>2</sub>. This enzyme belongs to the family of oxidoreductases, specifically those acting on the CH-OH group of donor with oxygen as acceptor. It employs one cofactor, FAD.

**Applications** Alcohol Oxidase may be used to study protein translocation into peroxisomes. This product is from *Pichia pastoris*. It has been used for the bacterial expression and immunological verification of Hv-p68 cDNA clones.

**Synonyms** EC 1.1.3.13; 9073-63-6; alcohol oxidase; ethanol oxidase; Alcohol:oxygen oxidoreductase

### Product Information

**Source** *Pichia pastoris*

**Form** Buffered aqueous solution. Solution in 30% sucrose with 0.1 M phosphate buffer at pH 8.0

**EC Number** EC 1.1.3.13

**CAS No.** 9073-63-6

**Activity** 10-40 units/mg protein (biuret)

**Unit Definition** One unit will oxidize 1.0 μmole of methanol to formaldehyde per min at pH 7.5 at 25°C.

### Storage and Shipping Information

**Storage** -20°C