

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 + O₂ ⇌ an aldehyde + H₂O₂. Thus, the two substrates of this enzyme are primary alcohol and O₂, whereas its two products are aldehyde and H₂O₂. 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