

Native Pichia pastoris Alcohol Oxidase

Product Information

Cat#	NATE-0047
Abbr	Alcohol Oxidase, Native (Pichia pastoris)
Alias	alcohol oxidase; ethanol oxidase
Similar	Alcohol Oxidase
Source	Pichia pastoris
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.
Form	Buffered aqueous solution. Solution in 30% sucrose with 0.1 M phosphate buffer at pH 8.0
Enzyme Commission Number	EC 1.1.3.13
Activity	10-40 units/mg protein (biuret)
CAS No.	9073-63-6
Unit Definition	One unit will oxidize 1.0 µmole of methanol to formaldehyde per min at pH 7.5 at 25°C.
Storage	-20°C
Synonyms	EC 1.1.3.13; 9073-63-6; alcohol oxidase; ethanol oxidase; Alcohol:oxygen oxidoreductase

Fax:1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA