

Native *Pichia pastoris* Alcohol Oxidase

Product Information

Cat#	NATE-0047
Abbr	Alcohol Oxidase, Native (<i>Pichia pastoris</i>)
Alias	alcohol oxidase; ethanol oxidase
Similar	Alcohol Oxidase
Source	<i>Pichia pastoris</i>
Description	In enzymology, an alcohol oxidase (EC 1.1.3.13) is an enzyme that catalyzes the chemical reaction: a primary alcohol + O ₂ ↔ an aldehyde + H ₂ O ₂ . Thus, the two substrates of this enzyme are primary alcohol and O ₂ , whereas its two products are aldehyde and H ₂ O ₂ . 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 <i>Pichia pastoris</i> . 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