

## Native *Pichia pastoris* Alcohol Oxidase

### Product Information

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