Creative Enzymes®

# alditol oxidase

*Cat. No. EXWM-0414*

*Lot. No.* (See product label)

## Introduction

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|---|---|
| ***Description*** | The enzyme from Streptomyces sp. IKD472 and from Streptomyces coelicolor is a monomeric oxidase containing one molecule of FAD per molecule of protein. While xylitol (five carbons) and sorbitol (6 carbons) are the preferred substrates, other alditols, including L-threitol (four carbons), D-arabitol (five carbons), D-galactitol (six carbons) and D-mannitol (six carbons) can also act as substrates, but more slowly. Belongs in the vanillyl-alcohol-oxidase family of enzymes. |
| ***Synonyms*** | xylitol oxidase; xylitol:oxygen oxidoreductase; AldO |

## Product Information

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| ***Form*** | Liquid or lyophilized powder |
| ***EC Number*** | EC 1.1.3.41 |
| ***CAS No.*** | 177322-52-0 |
| ***Reaction*** | an alditol + O2 = an aldose + H2O2 |
| ***Notes*** | This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications. |

## Storage and Shipping Information

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| ***Storage*** | Store it at +4 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃. |