

Native *Pleurotus ostreatus* (mushroom) Laccase

Cat. No. NATE-0372

Lot. No. (See product label)

Introduction

Description

Laccase is a blue copper oxidase that reduces molecular oxygen to water. Laccase oxidizes polyphenols, methoxy-substituted phenols and diamines, but not tyrosine. Oxidation by laccase is an one-electron reaction that generates a free radical.

Applications

Laccase is polyphenol oxidase found in many plants, fungi and microorganisms. Laccases may be useful in enzymatic biofuel systems, teeth whitening, textile dyeing, and in other applications that require the removal of oxygen

Synonyms

Laccases; EC 1.10.3.2; 80498-15-3; urishiol oxidase; urushiol oxidase; p-diphenol oxidase; benzenediol:oxygen oxidoreductase

Product Information

Source

Pleurotus ostreatus (mushroom)

EC Number

EC 1.10.3.2

CAS No.

80498-15-3

Activity

> 4.0 units/mg

Unit Definition

1 U corresponds to the amount of enzyme which converts 1 μ mol of pyrecatechol per minute at pH 4.5 and 25°C

Usage and Packaging

Package

Bottomless glass bottle. Contents are inside inserted fused cone

Storage and Shipping Information

Storage

-20°C