

## 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  $\mu\text{mol}$  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