

## Native Lignin Peroxidase from Phanerochaete chrysosporium

Cat. No. NATE-1579

Lot. No. (See product label)

### Introduction

**Description** Lignin peroxidase is a fungal enzyme which has a key role in the ligninolytic cycle, the process by which the structural component of plant walls, lignin, is degraded.

**Applications** Demethoxylation C $\alpha$ -C $\beta$  cleavage benzylic alcohol oxidation degradation of lignins, polycyclic aromatic hydrocarbons and xenobiotic compounds

**Synonyms** lignin peroxidase; diarylpropane oxygenase; ligninase I; diarylpropane peroxidase; diarylpropane:oxygen,hydrogen-peroxide oxidoreductase (C-C-bond-cleaving); LiP; 42613-30-9

### Product Information

**Source** Phanerochaete chrysosporium

**Form** Freeze-dried powder, no stabilizing agent added

**EC Number** EC 1.11.1.14

**CAS No.** 93792-13-3

**Optimum pH** 3.3

**Thermal stability** 15-60 °C

**Specificity** Veratryl alcohol, phenolic and nonphenolic aromatic Compounds

**Unit Definition** One unit is defined as the amount of enzyme that oxidizes 1.0  $\mu$ mole of 3,4-dimethoxybenzyl alcohol (veratryl alcohol) per minute at pH 3.3 and 25 °C.

### Storage and Shipping Information

**Storage** store at -20 °C

**Stability** 6 months