Creative Enzymes®

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 Cα-Cβ 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 μmole 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