Creative Enzymes®

Native Laccase from White rot fungi

Cat. No. NATE-1021

Lot. No. (See product label)

Introduction

Description	Laccase (Laccase E.C. 1. 10. 3. 2) is a glucoproteinase containing copper. It can catalyze phenols and its derivatives, aromatic amine and its derivatives, carboxylic acids and its derivatives, steroid hormone, biochrome, organometallic compounds and non-phenols substrate.
Applications	For indigo-dye-fading technique of jean processing by using laccase and catalysis enzymes in jean-washing industry, For selectively catalyze lignin-degradation and pulp bleaching by using laccase combined medium and xylanase. It is also a new environment friendly technique in wastepaper deinking process. For chlorophenols organic compounds degradation of wastewater treatment (which in line with pH requirements of laccase). For baking. For extract sugar. It can raise color value remaining. For others using as fiberboard adhesive, hair dyeing, lacquer dyeing film formation, crosslinking agent and biological measurement.
Synonyms	Laccases; EC 1.10.3.2; 80498-15-3; urishiol oxidase; urushiol oxidase; p-diphenol oxidase; benzenediol:oxygen oxidoreductase

Product Information

Source	White rot fungi
Appearance	Powder
CAS No.	80498-15-3
Activity	2u/g
pH Stability	3.0-5.5
Optimum pH	4.5
Thermal stability	20 - 60°C
Optimum temperature	50°C
Unit Definition	1 unit of laccase equals to the amount of enzyme, which oxidized 1 umol ABTS at 30°C in 1 min.

Storage and Shipping Information

Storage	Should be stored in a cool place to avoid effect of high temperature.
Stability	12 months at 4°C, activity remain ≥90%. Increase dosage after shelf life.