

Native Bjerkandera adusta Peroxidase

Cat. No. NATE-0549

Lot. No. (See product label)

Introduction

Description

The transformation of industrial dyes by manganese peroxidases from Bjerkandera adusta is a manganese-independent reaction.

Applications

Peroxidase is isolated from Bjerkandera adusta. Peroxidases from B. adusta, a white rot fungus, is used to degrade synthetic dyes. Peroxidase is used in biochemistry applications such as western blots, ELISA and Immunohistochemistry. Peroxidases are used to amplify a weak signal and increase detectability of a target molecule, such as a protein². Peroxidase is commonly used to determine amounts of glucose and peroxides in solution.

Synonyms

Peroxidases; lactoperoxidase; guaiacol peroxidase; plant peroxidase; Japanese radish peroxidase; horseradish peroxidase (HRP); soybean peroxidase (SBP); extensin peroxidase; heme peroxidase; oxyperoxidase; protoheme peroxidase; pyrocatechol peroxidase; scopoletin peroxidase; Coprinus cinereus peroxidase; Arthromyces ramosus peroxidase; EC 1.11.1.7; 9003-99-0

Product Information

Source

Bjerkandera adusta

EC Number

EC 1.11.1.7

CAS No.

9003-99-0

Activity

> 2.8 units/mg

Unit Definition

1 U corresponds to the amount of enzyme which oxidizes 1 μmol Mn^{2+} to Mn^{3+} per minute at pH 4.5 and 25°C (in the presence of H_2O_2).

Usage and Packaging

Package

Bottomless glass bottle. Contents are inside inserted fused cone.

Storage and Shipping Information

Storage

-20°C