

## 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 protein. 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; oxypoxidase; 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  $\mu\text{mol}$   $\text{Mn}^{2+}$  to  $\text{Mn}^{3+}$  per minute at pH 4.5 and 25°C (in the presence of  $\text{H}_2\text{O}_2$ ).

### Usage and Packaging

**Package** Bottomless glass bottle. Contents are inside inserted fused cone.

### Storage and Shipping Information

**Storage** -20°C