

## Native White-rot fungus (Phaner ochaete chrysosporium) Manganese peroxidase

Cat. No. NATE-0454

Lot. No. (See product label)

### Introduction

**Description** Manganese peroxidase (MnP) is a hemecontaining glycoprotein that is produced by ligninolytic basidiomycetes. It requires hydrogen peroxide as an oxidant. MnP oxidizes  $Mn^{2+}$  to  $Mn^{3+}$ .  $Mn^{3+}$  oxidizes phenolic rings to phenoxy radicals which results in the decomposition of various compounds.

**Applications** Manganese peroxidase from white-rot fungus (Phaner ochaete chrysosporium) is from the peroxidase family and is used to oxidize manganese. It may be used to study wound healing

**Synonyms** manganese peroxidase; peroxidase-M2; Mn-dependent (NADH-oxidizing) peroxidase; EC 1.11.1.13; 114995-15-2; MnP

### Product Information

**Source** White-rot fungus (Phaner ochaete chrysosporium)

**Form** powder; only partially soluble in water or buffer; light brown

**EC Number** EC 1.11.1.13

**CAS No.** 114995-15-2

**Activity** > 20 U/g

**Unit Definition** One unit corresponds to the amount of enzyme, which oxidizes 1  $\mu$ mole  $Mn^{2+}$  per minute to  $Mn^{3+}$  at pH 4.5 and 25°C

### Storage and Shipping Information

**Storage** -20°C