



01-2001 20 mg  
Horseradish Peroxidase  
EIA Grade  
Lot No.

#### **HORSERADISH PEROXIDASE, EIA GRADE**

##### **QUANTITY:**

20 mg.

##### **PREPARATION AND SPECIFICATION:**

Peroxidase is isolated from horseradish root by our own method. The peroxidase fractions that have high RZ values (ca 3.3) are combined to prepare the HRP product (EIA Grade). This preparation has an RZ value higher than 3 and is electrophoretically homogeneous.

Appearance: Reddish-brown amorphous powder, lyophilized.  
Activity: 252 Purpurogallin U/mg-solid. (RZ=3.05, salt free)

##### **PROPERTIES:**

Molecular weight: Approximately 40 kDa.  
Structure: Glycoprotein with one mole of protohaemin.  
Inhibitors: Cyanide, sulfide, fluoride, azide.  
Optimum pH: 6.0 - 6.5.  
Optimum temperature: 45 - 50°C.  
pH Stability: pH 5.0 - 10.0 (25°C, 20 hrs.)  
Thermal stability: Below 50°C (pH 6.0, 10 min.)

##### **APPLICATION:**

This highly purified preparation of horseradish peroxidase is useful as a protein tracer in histochemistry as well as cytochemistry, and also as a valuable experimental tool in hodological neurography. Also, the enzyme preparation has been used as an enzyme label in enzyme immunoassays.

##### **STORAGE:**

Product must be stored as dry powder only. Store at or below -20°C. Product cannot be stored in liquid form. Product is stable at 2-8°C for one month.

**REMARKS:** For research use only. Not for human or drug use. No preservative added.

[www.invitrogen.com](http://www.invitrogen.com)

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