



RayBiotech, Inc.

3607 Parkway Lane suite 100
Norcross, GA 30092
Tel: 770-729-2992, 1-888-494-8555
Fax: 770-206-2393
Website: www.raybiotech.com
Email: info@raybiotech.com

Certificate of Analysis and Data Sheet Horseradish Peroxidase

Catalog No.
228-10778

Source:
Root extracts of horseradish.

Synonyms:

Horseradish Peroxidase, HRP, EC 1.11.1.7.

Introduction

The enzyme horseradish peroxidase, found in horseradish, is used extensively in molecular biology and in antibody amplification and detection, among other things. For example, "In recent years the technique of marking neurons with the enzyme horseradish peroxidase (HRP) has become a major tool. In its brief history, this method has probably been used by more neurobiologists than have used the Golgi stain since its discovery in 1870." Horseradish peroxidase is also highly used in techniques such as Western blotting and ELISAs. HRP is widely used as an enzymatic label in immunoassays.

Description

HRP consists of the basic isoenzyme having a molecular weight of 44 kDa. The Horseradish Peroxidase is purified by affinity chromatography, which results in an enzyme of high specific activity and purity.

Physical Appearance

Sterile Filtered red-brown lyophilized powder.

Solubility

It is recommended to reconstitute the lyophilized HRP in sterile 18MΩ-cm H₂O not less than 100 µg/ml or more than 10 mg/ml solutions.

Stability

Lyophilized HRP although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution HRP should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

Activity

Greater than 250 U/mg (25°C, guaiacol as the hydrogen donor, pH-7 and H₂O₂ as substrates).

Purity

(A403/A278) = RZ: 3.4.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**