



Product Datasheet

Product Name	Horseradish Peroxidase
Cata No	CB500498
Source	Root extracts of horseradish
Synonyms	Horseradish Peroxidase, HRP, EC 1.11.1.7.

Description

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. Usually, the enzyme is coupled to antibodies, lectins or haptens. Coupling to antibodies etc. may be performed through the carbohydrate side chains of the HRP.

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.

Purity

(A403/A278) = RZ: 3.5.

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.