



Horseradish Peroxidase (DAG3874)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	HRP
Species	Horseradish
Purity	(A403/A278) = RZ: 3.3.
Conjugate	Unconjugated
Preservative	None
Storage	2-8°C short term, -20°C long term

BACKGROUND

Introduction

Horseradish Peroxidase (HRP) is a small molecule (MW ~40 KD) that is widely used in a variety of biological detections. HRP conjugates are extensively used as secondary detection reagents in ELISAs, immuno-histochemical techniques, Northern, Southern and Western blot analyses. Due to its small size, it rarely causes steric hindrance problem with antibody/antigen complex formation. It is usually conjugated to an antibody in a 4:1 ratio. Additionally, HRP is inexpensive compared to other labeling enzymes. The major disadvantage associated with peroxidase is their low tolerance to many preservatives such as sodium azide that inactivates peroxidase activity even at low concentration. Our Amplite Fluorimetric ELISA Assay Kit contains all the essential components including our fluorogenic Amplite Red HRP substrate for ELISA detection. The kit provides an optimized assay protocol that is compatible with HTS liquid handling, as little as 10 pg of a Polyclonal antibody in the well of a microplate can be detected. Its signal can be easily read by either fluorescence microplate reader with Ex/Em = 530_10/590_10 nm or absorbance microplate reader at 576_5 nm. It can be used for the assays that detect goat anti-rabbit IgG as the secondary detection agent.

Keywords

HRP; Horseradish Peroxidase