kementec

Horseradish Peroxidase (HRP)

LABELS & CONJUGATES

Enzyme, lyophilized from roots of horseradish
Cat. no. 4120

Product Characteristics
Horseradish Peroxidase (HRP) is derived from the root extracts of the horseradish plant. HRP uses H_2O_2 to oxidize both organic and inorganic compounds. Antibody conjugates, used in ELISA, membrane & IHC applications, biosensors etc. can be developed when coupling HRP to antibodies. HRP is purified by large scale extraction and purification of horseradish roots by means of ultrafiltration, protein precipitation ion exchange and hydrophobic interaction chromatography, resulting in a highly purified, salt free lyophilized product.

In ELISA, the main colorimetric substrate for HRP is TMB (3, 3', 5, 5'-tetramethylbenzidine). TMB produces a deep blue color during the enzymatic degradation of hydrogen peroxide by HRP, and the addition of an appropriate stop solution gives a clear yellow color that absorbs at 450nm.

Composition & Properties

Appearance	: Lyophilized powder. Clear solution at 5 mg/mL in deionised water
Activity	: ≥250 U/mg material, Pyrogallol
Purity	: Rz (A403/A275) ≥3.0
Mol. Weight	: App. 40 kDalton

This HRP is free of BSA, azide, mercury or other toxic preservative formulations.

Tips & Tricks
- The antibodies or antigens conjugated with HRP either can be stored at 2-8 °C as a concentrated stock solution or diluted in an appropriate buffer to the desired assay dilution range.
- For the stabilization of a pre-diluted conjugate, we recommend using the HRP-StabilPLUS (cat. no. 4530).

Handling & Storage
- Store dry at -20 °C or below.
- Allow to reach room temperature before opening.
- Re-desiccate and reseal the product before returning to storage.

DOC ID: 01-5-07-002 Ver. 03

Kementec Solutions A/S | Kuldyssen 10 DK-2630 Taastrup | Denmark VAT: DK 25 80 67 35 | Tel: +45 39 27 17 71 Fax: +45 39 20 01 78 | support@kementec.com www.kementec.com