

Note that this data sheet is not lot-specific. Please consult the vial label and the certificate of analysis for information on specific lots.

BioTeZ Peroxidase Labeling Kit

Catalogue Number: BTHRPK-03

Package Size: 1 kit for 3 labels

Catalogue Number: BTHRPK-05

Package Size: 1 kit for 5 labels

1. Description

The kit is intended for the preparation of Poly-Peroxidase labels using highly activated Poly-HRP (Horseradish Peroxidase). Poly-Peroxidase labels are characterized by high measurement signal amplification.

The pre-activated and polymerized Peroxidase contained in the kit can be used immediately for the coupling reaction with target molecules through the reaction with primary amino groups.

BioTeZ Peroxidase Labeling Kit includes all necessary reagents and clean-up columns for the purification of the coupling product.

2. Application

The kit can be applied for the production of Poly-Peroxidase conjugates of antibodies and other proteins.

The labeling portions are designed for a standard coupling of 1 mg antibody. For the labeling of other proteins, the amount to be used must be calculated accordingly.

3. Components

Pre-activated Poly-HRP (lyophilized), Labeling buffer for the coupling reaction, Stop solution, Stabilizing Reagent, Clean-up column and buffer for size-exclusion chromatography. All components are included for 3/5 separate coupling reactions.

4. Procedure scheme

Step 1 (Preparation)



- a) Prepare the antibody/protein before coupling: Remove all other substances with primary amines e.g. by ultrafiltration, dialysis or with a clean-up column; Transfer the antibody/protein into the Labeling Buffer
- b) Equilibrate a unopened original vial of pre-activated Poly-HRP on room temperature

Step 2 (Labeling)



Give the antibody/protein solution to the portion of pre-activated Poly-HRP; Incubation: 5-6 h at room temperature or overnight at 2-8°C

Step 3 (Stopping)



Pipette Stop solution into the reaction mixture, then solute a Stabilizing Reagent aliquot with distilled water and pipette into the reaction mixture; Incubation: 30 min at 2-8°C

Step 4 (Purification)



Size-exclusion chromatography of HRP conjugate by using clean-up column from the kit (for removing of excess reagent / transfer into a suitable buffer). The clean-up column must be washed before.

Step 5 (Characterization)

Determination of protein concentration by UV-spectrometry

5. Storage

Store the pre-activated Poly-HRP aliquots at – 20 °C, all other components of the BioTeZ Peroxidase Labeling Kit at 2-8 °C.