

# TMB Blotting

# CHROMOGENIC SUBSTRATES

# **Precipitating HRP Substrate**

Cat. no. 4450

#### **Product Characteristics**

TMB (3, 3', 5, 5'-tetramethylbenzidine) is a chromogenic substrate for Horseradish Peroxidase (HRP). TMB produces a deep blue color during the enzymatic degradation of hydrogen peroxide by HRP.

TMB Blotting liquid ready-to-use substrate is a highly active and stable blotting substrate utilized for measuring HRP probe activity. A stable blue precipitate is formed at the reaction site.

The substrate does not contain NMP (1-methyl-2pyrrolidone) making it REACH Restricted Substances List Annex XVII compliant, while ensuring maximal safety during use, and minimal waste problems after use.

## **Composition & Properties**

Ready-to-use substrate: Includes substrate buffer and hydrogen peroxide. No other reagents should be added.

# **Working Procedure**

The following procedure is applicable to nitrocellulose membranes. The procedure must be optimized for other

- 1. The desired amount of substrate is poured into a sealed container and allowed to reach room temperature in the dark before use.
- 2. In order to prevent the blotted membrane from fading, we recommend the use of 0.1M K2HPO4, pH 7.2 in coating.

- 3. After the last incubation with HRP-labelled Streptavidin or HRP-labelled secondary antibody, it is recommended to wash the membrane in a 0.1 M Tris buffer pH 7.4.
- 4. Shake off the excess buffer and incubate the membrane in the TMB Blotting solution for 10 minutes.
- 5. Wash the membrane in distilled water and allow it to
- 6. The site of positive reaction will appear light blue with no or very little background staining.

# **Tips & Tricks**

- The membrane can be blocked, prior to applying the substrate, with Kementec's Synthetic Blocking Buffer for Blotting (cat. no. 4650).
- For long-term preservation of the results, the membranes must be stored in the dark.

### **Handling & Storage**

- Store solution at 2-8 °C in the dark.
- Avoid exposure to light, heat and contamination with metal ions or peroxidase
- Re-dispense only into bottles made of High Density Polyethylene (HDPE), amber color. Dispensing guidelines are available upon request.



Our Immunoassay Solutions are eco-friendly, creating a healthy work environment and preserving natural resources, while helping our customers fulfill significant regulatory requirements. We call it ECO-TEK.

Kuldyssen 10