



TMB Membrane Plus (HRP) Substrate

Product Insert

Description

TMB Membrane Plus Substrate is a ready to use solution. It contains 3,3',5,5'-tetramethylbenzidine in a mildly acidic buffer. Unreacted substrate should be faint yellow to pink in appearance. TMB Membrane Plus Substrate develops an insoluble, permanent dark blue/purple reaction in the presence of peroxidase. This substrate is not recommended for microwell or immunohistochemical applications.

Sensitivity

TMB Membrane Plus Substrate is ultra sensitive. This formulation offers a high signal-to-background ratio, making it resistant to fading.

Stability and Storage

TMB Membrane Plus Substrate is stable for 2 years, from the date manufacture, when stored at room temperature (15° to 25°C) or 48 months when stored at 2° to 8°C. Over time, some flocculent material may appear, however, this does not affect product performance.

Custom Packaging Service

Neogen can package TMB Membrane Plus Substrate in custom bottle sizes and volume fills to meet your specific packaging requirements. This service is a time and cost saving feature for any test kit manufacturer. For details on this service, please contact a Neogen Corporation representative.

Recommended Handling

TMB substrates are sensitive to certain handling and storage conditions. Please note the following precautions when handling Neogen's TMB substrates:

Light Exposure - TMB Membrane Plus Substrate is light sensitive and direct exposure to sunlight should be avoided. Lid should be kept tightly closed.

Storage Containers - The substrate should only be stored in high quality amber colored plastic bottles. Neogen recommends HDPE amber bottles.

Dispensing Precautions - Some common metal ions (like iron) can oxidize TMB, causing an increase in background. Neogen recommends that only plastic or glass come in contact with the substrate. When using a dispensing pump make sure that no metal components of the pump come in contact with the substrate. Neogen further recommends that all pumps, tubing and storage containers be dedicated for use with TMB Membrane Plus Substrate ONLY. Neogen recommends Cole-Parmer C-Flex or Platinum-cured Silicone tubing. DO NOT reuse tubing.

Avoid the use of rubber stoppers and bottle caps containing rubber rings.

To avoid contaminating the entire bottle of substrate, never pipette directly from the substrate bottle. Always pour necessary volume of substrate into a separate container for use.

Do not leave the cap off of the storage bottle for prolonged periods of time.

Product #	Volume
337247	100 mL
337177	1 Liter

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Directions for Use

TMB Membrane Plus Substrate is supplied as a one-component ready to use solution.

1. This product should be at room temperature (25°C) before use.
2. Cover membrane surface completely with substrate and incubate for 5 to 20 minutes. The substrate system will react with sites on the membrane containing peroxidase, producing an insoluble, permanent dark blue reaction product.
3. To stop the reaction, rinse membrane with reagent quality water.
4. The reaction should be monitored and read before background color becomes too intense resulting in diminished contrast between positive and background staining.

Notes:

- Dilution of the substrate is not recommended.
- To reduce the intensity of a reaction, it is recommended that the antibodies or conjugates be diluted.

Technical Information

For technical support, please contact our Technical Service Department, Monday - Friday from 8:00 am - 6:00 pm EST.

Phone: 800/477-8201 (USA/CANADA)

Phone: 859/254-1221 (International)

E-mail: techservice-lifesciences@neogen.com

Warranty

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