

**BioFX® TMB Enhanced One Component
HRP Membrane Substrate**
Product Insert

Product number:

ESPM - 1000-01 (1000 mL)
Custom sizes available

Intended use:

BioFX® TMB Enhanced One Component HRP Membrane Substrate is a ready-to-use solution containing 3,3',5,5'-tetramethylbenzidine in a mildly acidic buffer. The substrate reacts with peroxidase to form an insoluble permanent dark blue/purple color on the membrane or surface to which it is applied.

This enhanced formulation extends the dynamic range of detection, especially at higher concentrations of peroxidase where other substrates may exhibit loss of signal due to washout effects. Unreacted substrate should be faint yellow to pink in appearance.

Product stability, storage and specifications:

Product stability	Stable for 2 years from date of manufacture when stored at room temperature (25°C) or 4 years from date of manufacture when stored at 2-8 °C.
Storage	2-25°C
Specification	This substrate is light sensitive and should be protected from direct UV sources. Over time, some flocculent material may appear; however, this does not affect product performance.

Recommendations for use:

The product should be allowed to equilibrate to room temperature (25°C) prior to use.

- 1) Cover the membrane surface with an ample amount of substrate and incubate for 5-20 minutes.
 - The substrate system will react with sites on the membrane containing peroxidase resulting in an insoluble permanent dark blue reaction product.
 - The reaction should be monitored and read before the background color becomes too intense which may result in diminished contrast between the positive and background staining.
- 2) Stop the reaction by rinsing the membrane with reagent quality water.

Additional considerations:

Dilution of the substrate is not recommended. It is recommended that the antibodies or conjugates be diluted to reduce the intensity of the reaction.

Related products:

BioFX® One Component HRP Membrane Substrate (TMBM)
StabilBlot™ Protein-Free Blocker (SB01)
StabilBlot™ BSA Blocker (SB02)
StabilBlot™ Casein Blocker – 5X, PBS (SB03)
StabilBlot™ Milk Blocker – 10X (SB04)
StabilBlot™ Casein Blocker – 5X, TBS (SB05)

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