

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

**Product number:**

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

**Intended use:**

BioFX® TMB One Component HRP Membrane Substrate is a ready-to-use solution containing 3,3',5,5'-tetramethylbenzidine in a mildly acidic buffer. When this substrate system is reacted with peroxidase, an insoluble permanent dark blue reaction product is obtained.

**Product stability, storage and specifications:**

Product stability	Stable for 2 years from date of manufacture when stored at 15-25°C. Stable for 4 years when stored at 2-8°C.
Storage	This substrate is light sensitive and should be protected from direct ultraviolet sources.
Specification	Unreacted substrate should be faint yellow to pink in appearance. 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 producing 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® TMB Enhanced HRP Membrane Substrate (ESPM)  
BioFX® Chemiluminescent Ultra-Sensitive HRP Membrane Substrate (CHMM)

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