

KPL TMB Membrane Peroxidase Substrate System

<u>Catalog No.</u>	<u>Size</u>
5420-0025 (50-77-00)	440 mL

DESCRIPTION

TMB Membrane Peroxidase Substrate system is a 3 component system which develops a dark blue precipitate on membrane sites bearing horseradish peroxidase. It is not recommended for microwell or immunohistochemical staining assays.

FORM

5420-0025 (50-77-00) is a 3-component system consisting of the following:
 2 x 100 mL KPL TMB Peroxidase Substrate
 2 x 100 mL KPL Peroxidase Substrate Solution B
 1 x 40 mL KPL TMB Membrane Enhancer

STORAGE /STABILITY

Store components at 2-8°C. Stable for a minimum of 1 year from date of receipt when stored at 2 - 8°C. KPL TMB Peroxidase Substrate may develop a yellow tinge over time which does not affect product performance.

CONTENT

KPL TMB Peroxidase Substrate contains 3,3',5,5'-tetramethylbenzidine at a concentration of 0.4 g/L in an organic base. KPL Peroxidase Substrate Solution B contains H₂O₂ at a concentration of 0.02% in a Citric Acid buffer. KPL TMB Membrane Enhancer is a proprietary formulation.

APPLICATIONS

KPL TMB Membrane Peroxidase Substrate System is a precipitating substrate ideally suited for use in blotting procedures. The substrate may be adapted for use as a soluble substrate for ELISA by omitting the KPL TMB Membrane Enhancer.

USE

Preparation: Mix one part of the KPL TMB Membrane Enhancer with five parts each of the KPL TMB Peroxidase Substrate and the KPL Peroxidase Substrate Solution B in a glass container prior to use (i.e. 5 mL Enhancer + 25 mL TMB Peroxidase Substrate + 25 mL Peroxidase Substrate Solution B, to yield a total volume of 55 mL).

The substrate solution should be clear. Warm to room temperature before use.

Recommended Substrate Volume: Immerse membrane in substrate using approximately 1 mL substrate per 10 cm² membrane.

Substrate Development: Following incubation with peroxidase labeled conjugate, wash membrane thoroughly. Incubate membrane in substrate for 5 - 15 minutes or until desired color is achieved. Incubation times will vary depending on your assay.

To Stop Substrate Reaction: Once desired color is achieved stop reaction by immersing membrane in reagent quality water for 20 - 30 seconds. The reaction should be stopped before background color becomes too intense resulting in insufficient contrast between positive staining and background.

Membrane Storage: Dry membrane thoroughly, seal with clear plastic and store in the dark to minimize fading.

To Reduce Substrate Sensitivity: High background or fading of the color in a few hours are signs of overreaction with KPL TMB Membrane Substrate. To reduce the intensity of the substrate reaction, it is recommended that the conjugate and/or antibodies in the immunoassay be further diluted. Dilution of the substrate is not recommended.

PRODUCT SAFETY AND HANDLING

See SDS (Safety Data Sheet) for this product.

RELATED PRODUCTS	CAT. NO.
KPL 1 Component TMB Membrane Peroxidase Substrate	5420-0027 (50-77-03)
KPL Milk Diluent/Blocking Solution	5140-0011 (50-82-01)
KPL Wash Solution	5150-0008 (50-63-00)

The product listed herein is for research use only and is not intended for use in human or clinical diagnosis.