

KPL TMB Membrane Peroxidase Substrate System

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

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 H_2O_2 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.

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

<u>Substrate Development</u>: 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.

<u>To Stop Substrate Reaction</u>: 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.

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

<u>To Reduce Substrate Sensitivity</u>: 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 KPL 1 Component TMB Membrane Peroxidase Substrate	CAT. NO. 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.

508.244.6400 • 800.676.1881 Toll Free • 508.634.3334 Fax