

KPL 4 CN Peroxidase Substrate System

| <u>Catalog No.</u> | <u>Size</u> |
|----------------------|-------------|
| 5420-0020 (50-73-00) | 600 mL |
| 5420-0024 (50-73-04) | 2700 mL |

DESCRIPTION

KPL 4 CN Peroxidase Substrate System is a 2 component system which develops a dark purple precipitate on membranes when reacted with peroxidase labeled conjugates. It is not recommended for microwell or immunohistochemical staining assays.

FORM

5420-0020 (50-73-00) contains:
3 x 100 mL KPL 4 CN Peroxidase Substrate
3 x 100 mL KPL Peroxidase Substrate Solution B

5420-0024 (50-73-04) contains:
3 x 450 mL KPL 4 CN Peroxidase Substrate
3 x 450 mL KPL Peroxidase Substrate Solution B

STORAGE/STABILITY

Store at 2-8°C. Stable for a minimum of 1 year when stored at 2-8°C. Over time, a precipitate may be observed in the KPL 4 CN Peroxidase Substrate solution. Its presence does not affect product performance.

CONTENT

KPL 4 CN Peroxidase Substrate Solution contains 4-chloro-1-naphthol at a concentration of 1.4 g/L in an organic base. KPL Peroxidase Substrate Solution B contains H₂O₂ at a concentration of 0.02% in a citric acid buffer.

USE

PREPARATION: Mix equal volumes of KPL 4 CN Peroxidase Substrate and KPL Peroxidase Substrate Solution B in a glass container prior to use. Warm to room temperature before use.

RECOMMENDED SUBSTRATE VOLUME: The amount of substrate needed is determined by the size of membrane being used. Prepare enough substrate to completely cover the membrane surface.

TO STOP SUBSTRATE REACTION: Stop the 4 CN substrate reaction by rinsing the membrane with reagent quality water to remove excess substrate.

WHEN TO STOP SUBSTRATE REACTION: The point at which the 4 CN substrate reaction should be stopped is best determined by the user. The reaction should be stopped before background color becomes too intense resulting in insufficient contrast between positive staining and background.

STORAGE OF MEMBRANE: Allow membrane to dry. Seal with clear plastic and store in the dark.

REDUCING SUBSTRATE INTENSITY: 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 the SDS (Safety Data Sheet) for this product.

RELATED PRODUCTS

| | CAT. NO. |
|---------------------------------------|----------------------|
| KPL 10% BSA Diluent/Blocking Solution | 5140-0006 (50-61-00) |
| KPL Wash Solution | 5150-0008 (50-63-00) |
| KPL Detector™ Block | 5920-0004 (71-83-00) |

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