

## KPL BCIP/NBT Phosphatase Substrate System

Catalog No.  
5420-0030 (50-81-00)

Size  
300 ml

### DESCRIPTION

KPL BCIP/NBT Phosphatase Substrate System is a 3 component system which deposits a permanent dark purple stain on membrane sites bearing alkaline phosphatase. It is not recommended for microwell and immunohistochemical staining assays.

### FORM

Catalog No. 5420-0030 (50-81-00) is a 3-component system consisting of the following:

- 1 x 25 ml KPL BCIP (*5-bromo-4-chloro-3-indolylphosphate*) Solution
- 1 x 25 ml KPL NBT (*Nitroblue tetrazolium*) Solution
- 1 x 250 ml KPL 0.1 M Tris Buffer Solution

### STORAGE/STABILITY

Store at 2-8°C. Stable for a minimum of 1 year at 2-8°C. The KPL BCIP Solution may develop a blue color over time which does not affect product performance.

### CONTENT

The KPL BCIP Solution contains 5-bromo-4-chloro-3-indolyl-phosphate at a concentration of 2.5 g/L in an organic base. The KPL NBT Solution contains nitroblue tetrazolium at a concentration of 5.0 g/L in an organic base.

### USE

#### Preparation:

Mix one part each of the KPL BCIP and the KPL NBT with ten parts of KPL Tris Buffer Solution in a glass container prior to use (i.e. 1 ml BCIP + 1 ml NBT + 10 mL Tris Buffer). The substrate solution should be clear and pale yellow in color. Use at room temperature.

**Recommended Substrate Volume:** Immerse membrane in approximately 1 ml prepared substrate per 10 cm<sup>2</sup> membrane. Use enough substrate to completely cover the membrane surface.

**Substrate Development:** Following incubation with phosphatase 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 Reaction:** Stop reaction by immersing the membrane in reagent quality water for 20-30 seconds. Allow the membrane to air dry.

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

**To Reduce Substrate Intensity:** Background is a sign of over-reaction with BCIP/NBT. To reduce the intensity of the substrate reaction, further dilution of the primary antibody and/or conjugate is recommended. Dilution of the substrate is not recommended.

### PRODUCT SAFETY AND HANDLING

This product is considered non-hazardous as defined by the Hazard Communication Standard (29 CFR 1910.1200). Avoid contact with skin and eyes. In case of contact or spillage, clean with copious amounts of water. Product may be disposed via sanitary sewer.

### RELATED PRODUCTS

RELATED PRODUCTS	CAT. NO.
KPL 1-Component BCIP/NBT Substrate	5420-0033 (50-81-07)
KPL Milk Diluent/Blocking Solution	5140-0010 (50-82-00)
KPL Detector Block	5920-0004 (71-83-00)
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.