Product Information

# BCIP®/NBT-Purple Liquid Substrate System for Membranes

Ready-to-use alkaline phosphatase substrate

**B3679**

## Product Description

Storage temperature: 2-8 °C

5-bromo-4-chloro-3-indolyl phosphate (BCIP®) and nitro blue tetrazolium (NBT) are reagents that are widely used in tandem to detect alkaline phosphatase conjugates.[1-3]

This BCIP®/NBT-Purple Liquid Substrate System for Membranes product is supplied as a ready-to-use buffered alkaline phosphatase substrate containing BCIP® and NBT. Prior to reaction with alkaline phosphatase, the substrate should appear as a colorless to light yellow solution. It will develop an insoluble dark purple reaction product when reacted with alkaline phosphatase on membrane applications (such as blotting).

Because this substrate produces an insoluble reaction product, this product **is not recommended** for multi-well applications (such as ELISA) or for immunohistochemical applications. Several publications,[4-9] theses[10-13] and dissertations[14-20] have cited use of product B3679 in their protocols.

## Precautions and Disclaimer

For R&D use only. Not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

## Preparation Instructions

The product is a ready-to-use, one component substrate for alkaline phosphatase and is supplied at the working dilution.

## Storage/Stability

Store the product at 2-8 °C. This substrate is light-sensitive and should be protected from direct sunlight or UV sources.

## Usage

- The product should be brought to room temperature (~25 °C) before use.
- Use enough substrate solution to cover completely the membrane surface.
- Upon incubation, a dark purple reaction product will develop on membrane sites where alkaline phosphatase is present.
- The reaction should be monitored continuously and read before the background color becomes too intense, which will result in diminished contrast between positive and background staining.
- Stop the reaction by rinsing briefly with water.
- **Dilution of the substrate product is not recommended**. To reduce the intensity of a reaction, it is recommended that the antibodies or conjugates be diluted instead.

## References


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