

**Product Information** 

# BCIP®/NBT Liquid Substrate System

Ready-to-use solution

#### **B1911**

## **Product Description**

Storage temperature: 2-8 °C

The 5-bromo-4-chloro-3-indolyl phosphate (BCIP®)/nitro blue tetrazolium (NBT) Liquid Substrate System is a substrate system that is widely used with alkaline phosphatase conjugates. <sup>1-3</sup> This system produces a blue-purple product. The intense color can be observed visually, is very stable, and will not fade upon exposure to light.

The BCIP®/NBT Liquid Substrate System offers a convenient, ready-to-use substrate solution for visualizing alkaline phosphatase activity in immunoblotting and immunohistology. Immunohistochemical staining with BCIP®/NBT requires organic mounting media and can be counterstained with Nuclear Fast Red or Light Green. BCIP®/NBT is generally a more sensitive method than Fast Red. This product is not recommended for ELISA (multiwell) procedures.

Several publications,<sup>4</sup> theses<sup>5,6</sup> and dissertations<sup>7-21</sup> have cited use of product B1911 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 BCIP®/NBT Liquid Substrate System is a single solution, ready-to-use reagent.

## Storage/Stability

Store the product at 2-8 °C for extended, long-term storage. Protect from light or UV sources.

**Do not freeze**. The product may be stored at room temperature for up to one year.

## Usage

- Rinse specimens that have been incubated with an alkaline phosphatase conjugate in a non-phosphate wash buffer before treatment with the BCIP®/NBT Liquid Substrate System.
- Cover the entire specimen with the reagent during color development.
- Incubate the specimen at room temperature with the BCIP®/NBT reagent for ~10 minutes.
  Specimens and procedure may affect the length of time needed for color development.
- Monitor color development to avoid over-development.
- Stop color development by rinsing the specimen with water.

#### References

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