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.[1-3] 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,[4] theses[5,6] and dissertations[7-21] 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.

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