

BCIP/NBT Substrate Kit

Cat No.	Quantity
10-0007	100 mL

Intended Use For Research Use Only.

This BCIP/NBT Substrate kit is intended for use during immunohistochemical (IHC) staining procedures on formalin-fixed, paraffin-embedded (FFPE) tissue section when alkaline phosphatase (AP) is used as the enzyme. Upon addition to the antibody-AP enzyme complex, BCIP/NBT forms a dark blue-purple color precipitate at the antigen location. The staining location and pattern is easily observable by light microscopy.

Reagents Supplied Reagent A: One bottle of 2X **BCIP Substrate Buffer**, 50 mL
 Reagent B: One bottle of 2X **NBT Chromogen Solution**, 50 mL

Procedure

1. Prepare Ready-To-Use BCIP/NBT substrate solution. Add BCIP Substrate to NBT Chromogen Solution and mix the two solutions in a 1:1 ratio with the volume determined by the number of slides to stain. In general, 200 µL of mixed substrate solution is sufficient to cover one tissue slide.
Note: Do not equilibrate the entire bottle of either reagent at Room Temperature. Pour out the necessary amount of each solution and allow the aliquoted volumes to equilibrate at room temperature before mixing. After mixing in a 1:1 ratio, the resulting Ready-To-Use substrate solution should be used within 4 hours.
2. Complete AP steps and wash slides.
3. Add substrate solution on slides and incubate for 5 – 30 minutes at room temperature.
4. Rinse slides with tap water to remove excess substrate solution.
5. Proceed with mounting protocol.
 Note: BCIP/NBT forms an end-product which is soluble in organic compounds. Therefore, it is necessary to use an aqueous based mounting medium. Do not use mounting media containing organic solvent.

Storage Store at 2-8°C. Do not freeze.
 All performance claims are void after the expiration date.
 BCIP/NBT Substrate Kit (Reagent A and B) are light sensitive. Store reagent in its original amber bottle away from direct sunlight.

Precautions For professional users only.
 Little is known about the toxicity and carcinogenicity of the substrate components. Care should be taken in the handling and disposing of all reagents. The substrate components contain dimethylformamide (DMF).
 Proper handling of this product should be used according to local and applicable regulations.

Risk Statements: DMF
 R61 May cause harm to the unborn

Symbols

 Catalog No.	 Batch No.	 Temperature Range	 Use By
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