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Datasheet for NBT-100

BCIP/NBT Membrane Alkaline Phosphatase Substrate

Overview

Description:	BCIP/NBT Membrane Alkaline Phosphatase Substrate - NBT-100
Item No.:	NBT-100
Size:	100 mL
Applications:	IHC, WB

Product Details

Background:	BCIP/NBT (5-Bromo-4-chloro-3'-indolyphosphate p-toluidine salt/Nitro blue tetrazolium chloride) is utilized in combination as a chromogenic substrate for alkaline phosphatase (AP) in various applications, including WB and IHC. The reaction produces an insoluble dark purple/blue precipitate. This substrate is particularly useful for chromogenic detection in blotting and in situ hybridization assays due to its high sensitivity and resolution.
Synonyms:	5-Bromo-4-chloro-3-indonyl phosphate, X-phosphate, XP, Nitro-blue-tetrazolium chloride, Alkaline Phosphatase Substrate for Membranes, Alkaline Phosphatase Western Blot Substrate

Target Details

Purity/Specificity:	pH: 9.28 +/- 0.1 QC Raw Material: PASS Absorbance check of final product: PASS Performance Data per Immunoblot: PASS
Relevant Links:	• SDS

Application Details

Tested Applications:	IHC, WB

Application Note:	BCIP/NBT Alkaline Phosphatase Membrane Substrate is a useful detection reagent for immunoblotting. The substrate is ready to use. To use: Wash the membrane after incubation with the alkaline phosphatase conjugate secondary reagent. Apply sufficient substrate to cover the membrane. Color (purple-turquoise, varies with pH) will develop within 30 minutes. Wash, dry membrane and image.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	1X

Formulation

Physical State:	Liquid - clear to pale yellow
Concentration:	1X
Stabilizer:	Proprietary buffer with enhancer

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store container at 4° C prior to opening. Protect BCIP/NBT Membrane Alkaline Phosphatase Substrate from moisture and light. No special shipping conditions or precautions are required.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Bottle
BCIP/NBT MEMBRANE ALKALINE PHOSPHATASE SUBSTRATE

References

- Barsky SH et al. Bone Marrow Origin of Mammary Phagocytic Intraductal Macrophages (Foam Cells). *Int J Mol Sci.* (2025)
- Iksat N et al. Heat Stress Induces Partial Resistance to Tomato Bushy Stunt Virus in Nicotiana benthamiana Via Combined Stress Pathways. *Viruses.* (2025)

Disclaimer

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