

# PRODUCT INFORMATION

**SERVAColor BCIP/NBT Blot Solution**

**Cat. No. 15245**

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## PRODUCT DESCRIPTION

BCIP/NBT (5-bromo-4-chloro-3-indolyl phosphate/nitro blue tetrazo-lium) is a substrate used for detection of alkaline phosphatase (AP) in membrane-bound assays e.g. western blots. The reaction forms a bluish grey to black pre-precipitate. The intensity of the colour is directly proportional to the enzyme concentration.

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## Direction to use:

The substrate is supplied ready-to-use in 1x concentration.

Contains non-toxic-stabilizers. **DO NOT DILUTE.**

Warm to reaction temperature prior to use. Discard if solution is turbid or purple.

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## Procedure

- After reaction with AP labeled probe, wash the blot membrane thoroughly with buffer, e.g. Tris/HCl or TBS containing 0.1 % Tween 20

## DO NOT USE PHOSPHATE BUFFERS.

Inorganic phosphate is a powerful inhibitor of AP.

- Complete cover the membrane with BCIP/NBT solution and incubate 10 - 20 min protected from light (longer incubations may be necessary depending upon enzyme activity).
  - Stop the enzyme reaction by thoroughly washing tissue sections or membranes with deionized water
  - Purple bands or dots will be visible at the sites of AP activity on membranes.
  - Optimal color contrast is reached after drying the membrane.
  - Afterwards, the dry membrane could be archived or scanned for documentation.
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**Storage:** Store the substrate at +2 °C to +8 °C.

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