BCIP/NBT Chromogen/Substrate Kit
Liquid Format

Catalog No.: K 006

Intended Use: As a substrate/chromogen in conjunction with alkaline phosphatase based immunostaining systems.

Introduction: Alkaline phosphatase, an enzyme derived from bovine intestinal mucosa, is often used as a label for in situ hybridization, immunohistochemistry, Southern and Northern hybridization and DNA sequencing. Detection of this enzyme requires the use of an insoluble colored substrate. DBS introduces a new stable, BCIP/NBT solution in ready to use form. It produces a blue colored end product at the positive sites which gives a good contrast with red nuclear fast counter stain. Specimens stained in BCIP/NBT can not be dehydrated in ethanol and hence should be mounted in aqueous based mounting medium like C/C Mount (DBS catalog # K002).

Principle: Alkaline phosphatase cleaves the phosphate group from BCIP to produce precipitating indoxyl group. This group then dimerizes resulting in the reduction of the NBT to produce a dark blue insoluble Formazan product.

Format: 15mL of ready to use amber-colored solution.

Storage: Store at 2-8°C. Do not use beyond the expiration stated on the label.

Procedure:
i) Once tissue sections have been incubated with alkaline phosphatase, wash them with buffer thoroughly.
ii) Wipe the glass to remove excess of buffer and add enough drops of the BCIP/NBT solution to cover the tissue sections.
iii) Incubate for 10-30 minutes at room temperature. For the best results, look under the microscope for the signal development. Once desired signal to noise ratio is achieved, stop the reaction by washing the slides in the wash buffer.

Precautions: Poisonous. May be harmful or fatal if swallowed. Avoid contact with clothes and exposed skin. If accidentally contacted, flush with tap water immediately. Follow instructions provided by your local authorities for disposal.

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