

## 5-Bromo-4-chloro-3-indolyl phosphate p-toluidine salt

Cat. No. CSUB-0050

Lot. No. (See product label)

### Introduction

**Applications** For the colorimetric detection of alkaline phosphatase-labeled molecules, 5-Bromo-4-chloro-3-indolyl phosphate (BCIP) and Nitro Blue Tetrazolium (NBT) are available. The BCIP/NBT substrate system is versatile and functions in a variety of applications, including Northern Southern, and Western blotting, in situ hybridization, and immunohistochemistry. BCIP is provided in two salt forms: the disodium salt which is soluble in water and the p-toluidine form which is soluble in dimethylformamide. These salt forms may be used to prepare a stock solution that in combination with NBT and a reaction buffer, form a substrate solution for alkaline phosphatase. This substrate system, when incubated with alkaline phosphatase, produces an insoluble NBT diformazan product that is easily observable with its purple color. For added convenience, a mixture of BCIP and NBT is provided in an easily dissolvable tablet form or as a ready-to-use liquid.

**Synonyms** BCIP p-toluidine salt; X-phosphate p-toluidine salt

### Product Information

**EC Number** 229-506-1

**CAS No.** 6578-06-9

**Molecular Formula** C<sub>8</sub>H<sub>6</sub>BrClNO<sub>4</sub>P · C<sub>7</sub>H<sub>9</sub>N

**Molecular Weight** 433.62

**Substrates** Alkaline Phosphatase

### Storage and Shipping Information

**Storage** 2-8°C