

## Substrate for ELISA

### pNPP ( 4-Nitrophenyl Phosphate )

**Description:** Sodium salt of pNPP is a white to slightly yellow crystalline powder produces colourless to slightly yellow solution in water.

**Purity:** > 95%

**Molecular Weight:** 371.1

**Formula:** C<sub>6</sub>H<sub>4</sub>NO<sub>6</sub>PNa<sub>2</sub>.6H<sub>2</sub>O

**Application:** Used as a substrate for alkaline phosphatase.

### Ordering Information:

Product	Size	Cat #
pNPP	1 g	106039

## Substrate for Western Blotting

### BCIP/NBT

(5-bromo-4-chloro-3-indolyl phosphate/nitro blue tetrazolium)

Used in assays involving Alkaline Phosphatase enzyme and where an insoluble product is desirable. The reaction produces a bluish grey to black precipitate depending upon the enzyme concentration. This is supplied as a ready to use solution.

**Storage:** 4°C in dark.

### TMB/H<sub>2</sub>O<sub>2</sub> - For localization of HRP

TMB/H<sub>2</sub>O<sub>2</sub> - For localization of HRP is supplied in a stabilized medium which produces blue stain on reacting with HRP. This substrate is useful in development of blots using HRP conjugates. The reagent is supplied as 10X concentrate. Dilute 10 fold in distilled water just before use.

## DAB System

3-3'-diaminobenzidine tetrahydrochloride (DAB) is a substrate for horseradish peroxidase which yields a colored deposit which is insoluble in alcohol and xylene. It is a suitable substrate for immunomicroscopy. DAB is suitably packed so as to avoid unnecessary handling of DAB by investigator.

### System contains the following

DAB	:	10 x 6 mg
Hydrogen peroxide	:	0.5 ml
Dilution buffer	:	100 ml

**Storage:** 4°C in dark.

## New DAB Concentrate for HRP (50X)

3-3'-diaminobenzidine tetrahydrochloride substrate is useful for detection of HRP. It is suitable for staining tissue sections and for blot development using nitrocellulose, nylon and other membranes.

### Highlights:

- Very High Sensitivity
- Low Background, High Intensity

### Materials Provided

DAB concentrate (50X)	:	2 ml
Dilution Buffer	:	100 ml
H <sub>2</sub> O <sub>2</sub>	:	0.5 ml

### Ordering Information:

Product	Size	Cat #
BCIP/NBT	50 ml	106036
TMB / H <sub>2</sub> O <sub>2</sub> for localization	10 ml	106037
DAB System	1 Set	106038
DAB Concentrate for HRP (50X)	1 No.	117761