

# 1-Step PNPP

37621

0755.2

Number	Description
37621	1-Step PNPP, 100mL, contains a non-mercury, non-azide preservative

**Storage:** Upon receipt store product at 4°C. Product is shipped at ambient temperature.

## Introduction

Thermo Scientific 1-Step PNPP (*p*-nitrophenyl phosphate disodium salt) is a widely used substrate for detecting alkaline phosphatase in ELISA-based applications. The reaction produces a water-soluble yellow product that absorbs light at 405nm. 1-Step PNPP is supplied pre-mixed with substrate buffer and is ready to use.

## Procedure for using 1-Step PNPP

1. Equilibrate the 1-Step PNPP to room temperature.
2. Gently mix the 1-Step PNPP end over end.
3. Add 100µL of the 1-Step PNPP to each well. Mix thoroughly by gently agitating the plate.
4. Incubate plate at room temperature for 15-30 minutes or until sufficient color develops.
5. Add 50µL of 2N NaOH to stop the reaction. Mix thoroughly by gently agitating the plate.
6. Measure absorbance of each well at 405nm.

## Related Thermo Scientific Products

31493	<b>EZ-Link™ Maleimide Activated Alkaline Phosphatase Kit</b>
21323	<b>Streptavidin, Alkaline Phosphatase Conjugated, 3mg</b>
15075	<b>Reagent Reservoirs, 200/pkg.</b>
15082	<b>Microtube Racked System, 960 tubes</b>
15036	<b>Sealing Tape for 96-Well Plates, 100/pkg.</b>
37538	<b>StartingBlock™ (PBS) Blocking Buffer, 1L</b>
37542	<b>StartingBlock (TBS) Blocking Buffer, 1L</b>

## General References

- Feller, A.C., *et al.* (1983). Combined immunohistochemical staining for surface IgD and T-lymphocyte subsets with monoclonal antibodies in human tonsils. *Histochem J* **15**:557-62.
- Yolken, R.H. (1982). Enzyme immunoassays for the detection of infectious agents in body fluids: Current limitations and future prospects. *Rev Infect Dis* **4**:35-68.
- Malik, N.J. and Daymon, M.E. (1982). Improved double immunoenzyme labeling using alkaline phosphatase and horseradish peroxidase. *J Clin Path* **35**:1092-4.

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