



# SMART REAGENTS

## *p*-Nitrophenyl Phosphate Substrate (pNPP)



### Features

- Formulated from analytical grade reagents
- Specifically developed for immunoassays
- Chromogenic substrate
- Reproducibility from lot to lot
- Exactly pre-weighed tablets

### Product description

Medicago's pNPP substrate is specifically developed for immunoassay procedures and it is ideal for phosphate-based ELISA methods. The substrate is also used as a chromogenic non-specific substrate in alkaline and acid phosphatase assays. Its soluble end-product is yellow and can be spectrophotometrically read at 405 to 410 nm. The reaction may be stopped with 3 M NaOH.

The pNPP substrate is supplied as pre-weighed tablets in bottles or in convenient blister packs, each tablet containing 5 mg or 20 mg of substrate.

### Applications

- Immunoassays
- Chromogenic substrate for phosphatase assays
- Histochemistry procedures
- Recommended for ELISA procedures

### Directions for use

Deposit one tablet of the pNPP substrate in a laboratory flask or beaker placed on a magnetic stirrer. Add deionized water in the appropriate amount to reach the required concentration for the assay. Stir until full dissolution and the substrate solution is ready to use.

### Specifications

Chemicals	Analytical grade
Format	Exactly pre-weighed tablets
Weight	5 mg and 20 mg
Shelf life	Three years after production date

### Shipping and storage

The pNPP substrate is shipped at room temperature. Store the tablets in a dark place below -18°C. Shelf life is three years.

### Tips and hints

If the tablet is not properly dissolved, make sure:

- the water temperature is 25°C (do not exceed this temperature)
- the solution is properly stirred.

### Certifications

Medicago's laboratories and manufacturing site in Uppsala is ISO 9001:2015 certified. Each stage of the manufacturing process is controlled and monitored by stringent quality control procedures to guarantee the highest possible quality and lot-to-lot reproducibility.



**Intertek**

### Ordering information

Article no.	Product name	Pack size
09-2001-100	p-Nitrophenyl phosphate, 5 mg	100 tablets
09-2001-24	p-Nitrophenyl phosphate, 5 mg	24 tablets*
09-2020-100	p-Nitrophenyl phosphate, 20 mg	100 tablets
09-2020-24	pNPP, 20 mg	24 tablets*