

KPL *p*NPP Microwell Substrate Tablets

Catalog No.
5120-0057 (50-80-01)

Size
100 tablets

DESCRIPTION

KPL *p*NPP Microwell Substrate develops a soluble yellow product when reacted with alkaline phosphatase-labeled conjugates in microwell plates. It is not recommended for membrane or immunohistochemical staining assays.

FORM

5120-0057 (50-80-01) contains 100 (5 mg) tablets of *p*-Nitrophenylphosphate (*p*NPP).

STORAGE/STABILITY

Store at 2-8°C. Stable for a minimum of 1 year from date of receipt when stored at 2-8°C.

CONTENT

Each tablet contains 5 mg of *p*-Nitrophenylphosphate (*p*NPP).

USE

Preparation

Add 1 *p*NPP tablet to 5 mL of KPL DEA Buffer or other appropriate buffer and mix thoroughly to dissolve tablet. The tablet should be completely dissolved within 10 minutes. Substrate solution should be clear to slightly yellow. Warm to room temperature before use.

Recommended Substrate Volume

Following incubation with phosphatase labeled conjugate, wash plate thoroughly. Add 100 µL freshly mixed substrate solution to each well. As the color develops, tap plate gently to mix.

ABSORBANCE MEASUREMENTS

Kinetic Assays

KPL *p*NPP phosphatase substrate produces a yellow color. Read at a wavelength between 405 - 410 nm.

Endpoint Assays

The substrate remains yellow after the addition of a stopping solution. Read at a wavelength between 405 - 410 nm.

Stopping Solution

To stop the *p*NPP reaction, add an equal volume (100 µL) of 5% EDTA solution. Additionally, KPL APstop™ Solution may be used as well.

When to Stop Substrate Reaction

The point at which the substrate reaction is stopped is often determined by the ELISA reader being used. Many ELISA readers record absorbance up to 2.0 O.D. The O.D. values of the plate should be monitored and the substrate stopped before positive wells are no longer recordable.

Reducing Substrate Intensity

To reduce the intensity of the substrate reaction, it is recommended that the conjugate and/or antibodies in the immunoassay be further diluted. **Dilution of the substrate is not recommended.**

PRODUCT SAFETY AND HANDLING

See SDS (Safety Data Sheet) for this product.

RELATED PRODUCTS

CAT. NO.

KPL DEA Buffer	5120-0058 (50-80-02)
KPL Coating Solution	5150-0014 (50-84-00)
KPL 10% BSA Diluent/Blocking Solution	5140-0006 (50-61-00)
KPL Wash Solution	5150-0008 (50-63-00)
KPL BluePhos® Microwell Phosphatase Substrate	5120-0059 (50-88-00)
KPL APstop Solution	5150-0026 (50-89-00)

The product listed herein is for research use only and is not intended for use in human or clinical diagnosis.