

pNPP Phosphatase Assay Kit

Product Information

Cat

Kit-2458

Cat.No.

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Product Overview

p-nitrophenyl phosphate (pNPP) is a chromogenic substrate for most phosphatases such as alkaline phosphatases, acid phosphatases, protein tyrosine phosphatases and serine/threonine phosphatases. The reaction yields para-nitrophenol, which becomes an intense yellow soluble product under alkaline conditions and can be conveniently measured at 405 nm on a spectrophotometer. This homogeneous "mix-and-measure" assay involves simply adding a single reagent to the phosphatase and measuring the product formation on an absorbance reader. The assay can be conveniently performed in cuvettes, tubes or multi-well plates at either room temperature or 37°C.

Storage

4, -20°C

Shipping

RT

Size

500 tests

Detection method OD405nm

Compatible Sample Types

Protein phosphatases

Features & Benefits

High sensitivity and wide linear range. The detection limit is generally 3 ng phosphatase or below.

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Homogeneous and simple procedure. No wash or reagent transfer steps are involved. The assay can be completed within 30 minutes.

Robust and amenable to HTS. All reagents are compatible with high-throughput liquid handling instruments.

Assay time

30 min

Sensitivity

3 ng
