

pNPP Phosphatase Assay Kit

Cat. No. Kit-0713 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	pNPP Phosphatase Assay Kit is a colorimetric determination of phosphatase activity at 405 nm.
Description	Para-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.
Applications	Enzyme Activity Assay and Quality Control for phosphatase production.Characterization of Kinetics of phosphatase reaction.Drug Discovery: high-throughput screen for phosphatase inhibitors.
Usage	For research use only (RUO)
Storage	Store Reagent at -20°C and other components at 4°C.Shelf life: 12 months after receipt.
Kit Components	Reagent 280 µLAssay Buffer 25 mLStop Solution 25 mL
Detection method	Colorimetric
Features & Benefits	High sensitivity and wide linear range. The detection limit is generally 3 ng phosphatase or below.Homogeneous and simple procedure. No wash or reagent transfer steps are involved. The assay can be completed within 30 minutes.Robust

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and amenable to HTS. All reagents are compatible with highthroughput liquid handling instruments.

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