

Phosphate Assay Kit II

Cat. No. Kit-0945 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

The Phosphate Assay Kit provides a fast and sensitive spectrophotometric method for the quantification of inorganic phosphate in solution and for phosphate released during ATPase or GTPase enzymatic reactions.

See our complete line of Fluorescence Microplate assays.

- Sensitivity of 2 to 150 μ M phosphate
- Spectrophotometric microplate-based assay detects a change in absorbance maximum from 330 nm to 360 nm
- Continuous monitoring of phosphate generated by ATPase or GTPase activity

Description

In the presence of inorganic phosphate, the 2-amino-6-mercapto-7-methylpurine riboside (MESG) substrate is converted by the purine nucleoside phosphorylase (PNP) enzyme to the ribose 1-phosphate and 2-amino-6-mercapto-7-methylpurine product. This enzymatic conversion of MESG results in a spectrophotometric shift in maximum absorbance from 330 nm for the substrate to 360 nm for the product.

Sensitivity of the assay is in the range of 2 to 150 μ M inorganic phosphate (2 to 150 nanomoles phosphate in a 1 mL volume), and the reaction can be performed over a pH range of 6.5 to 8.5. The phosphate reaction is sufficiently fast and quantitative for use in stopped-flow kinetic experiments.

Storage

Store in freezer (-5 to -30°C).

Shipping

Room Temperature

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Size	100 assays
Materials Required but Not Supplied	Spectrophotometer
Detection method	Colorimetric

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