



Phosphate Assay Kit (500 tests)

Product Information

Cat

Kit-2419

Cat.No.

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Product Overview

The Blue Phosphate Assay Kit is based on a proprietary formulation of the malachite green dye. The Blue reagent forms a blue colored complex with free orthophosphate. The rapid color formation from the reaction can be conveniently measured on a spectrophotometer (600 - 660 nm) or on a plate reader. The non-radioactive colorimetric assay kits have been optimized to offer superior sensitivity and prolonged shelf life. The assay is simple and fast, involving a single addition step for phosphate determination. Assays can be performed in tubes, cuvettes or multi-well plates. The assays can be conveniently executed in 96-well plates for high-throughput screening of enzyme inhibitors.

Storage

4°C

Shipping

RT

Size

500 tests

Detection method OD620nm (malachite green)

Compatible Sample Types

Enzyme reactions with free phosphate releases

Features & Benefits

Reagent very stable. Due to our innovative formulation, no precipitation of reagent occurs.



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Therefore no filtration of reagent is needed prior to assays, as is often required with other commercial kits.

High sensitivity and wide detection range: detection of as little of 20 pmoles of phosphate and useful range between 0.4 μM and 50 μM phosphate.

Fast and convenient: single reagent "mix-and-measure" assay allows quantitation of free phosphate within 30 minutes.

Compatible with routine laboratory and HTS formats: assays can be performed in tubes, cuvettes or microplates, on spectrophotometers and plate readers.

Robust and amenable to HTS: Z factors of 0.7 to 0.9 are observed in 96-well plates. Can be readily automated on HTS liquid handling systems

Assay time

30 min

Sensitivity

0.4 μM
