CREATIVE BIOMART®
Assay Kit

Phosphate Assay Kit (500 tests)

Product Information

Cat

Kit-2419

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

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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

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