CREATIVE BIOMART®
Assay Kit

Phosphate Colorimetric Assay Kit

Product Information

Cat.No. Kit-0686

Product Overview

Phosphate Assay Kit (Colorimetric) provides an easy, quick and simple method for assessing phosphate over a wide range of concentrations. The assay utilizes a proprietary formulation of malachite green and ammonimum molybdate which forms a chromogenic complex with phoshphate ion giving an intense absorption band around OD650nm. This assay can be used not only in biological fluids but also in inorganic samples such as algal blooms and water from run-off areas of high fertilizer use.

Size

500 tests

Description

Phosphate is one of the most important of the inorganic ions in biological systems. It functions in a variety of roles. One of the most important roles is as a molecular switch, turning enzyme activity on and off through the mediation of the various protein kinases and phosphatases in biological systems. Phosphate is also of great importance in mineralization processes and is a primary stimulus of algal blooms frequently found in bodies of fresh water, due to run-off from areas of high fertilizer use.

Applications

Functional Studies more details

Storage

Store at room temperature.

Kit Components

Components: 500 tests; Phosphate Reagent: 1 x 15ml; Phosphate Standard (10 mM): 1 x 500µl

Compatible Sample Types

Serum, Plasma, Other biological fluids, Tissue Extracts, Cell Lysate, Cell culture media

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Assay time
2h 00m
Sensitivity
>1 μM

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