

Phosphate Colorimetric Assay Kit

Cat. No. Kit-0686 **Lot. No.** (See product label)

SPECIFICATION

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 ammonium molybdate which forms a chromogenic complex with phosphate 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 500μ
Compatible Sample	Serum, Plasma, Other biological fluids, Tissue Extracts, Cell Lysate, Cell culture

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Types	media
Assay time	2h 00m
Sensitivity	>1 μ M

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