Malachite Green Phosphate Assay Kit

Cat. No. Kit-0555 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Malachite Green Phosphate Assay Kit is a non-radioactive method for measuring inorganic free phosphate in aqueous solution.
Description	Malachite Green Assay Kit provides a fast, reproducible, and non-radioactive method for measuring inorganic free phosphate in aqueous solutions. This simple assay method is based on the complex formed between malachite green molybdate and free orthophosphate under acidic conditions. The formation of the green molybdophosphoric acid complex measured at 620-640 nm is directly related to the free organic phosphate concentration. Applications for this assay include quantification of phosphorylation and phosphate release from protein phosphatase substrates. This assay measures only inorganic free phosphate; lipid-bound or protein-bound phosphates must first be hydrolyzed and neutralized prior to measurement. Overall, this assay is a reliable and suitable means of detecting and quantifying minimal amounts of inorganic free phosphate in acidic environments and is amenable to high-throughput screening applications. The assay is formatted to low-volume 96-well plates, but could easily be modified for use in 96-well, 384-well, or cuvette-based assays.
Usage	For research use only (RUO)
Storage	MG Phosphate Standard (1M) Room TemperatureMG Blue Solution 4°C (in the Dark)MG Acidic Solution 4°C (in the Dark)96-Well Solid Plate (low volume) Room Temperature96-Well Cover Sheet Room Temperature

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Kit Components	MG Phosphate Standard (1M) 1 vial/100 µMG Blue Solution 2 vials/1.8 mLMG Acidic Solution 2 vials/600 µ96-Well Solid Plate (low volume) 2 plates96-Well Cover Sheet 2 covers

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