

Magnesium Detection Kit

Cat. No. Kit-0530 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Magnesium Assay Kit is a simple sensitive assay for quantitating magnesium in a variety of biological samples. The kit takes advantage of the specific requirement of glycerol kinase for Mg ²⁺ . An enzyme linked reaction leads to formation of an intensely colored (λ _{max} 450nm) product whose formation is proportional to Mg ²⁺ concentration. The linear range of the assay is 2-15 nmoles with detection sensitivity ~40 μM.
Size	100 tests
Description	Magnesium is the 11th most abundant element by mass in the human body. Mg ²⁺ is essential to all living cells where it plays an important role in facilitating the processing of biological polyphosphates like ATP, DNA, RNA and enzyme functions. Mg ²⁺ is the metallic ion at the center of chlorophyll, and a common additive to fertilizers. Mg ²⁺ compounds are used as laxatives, antacids, and used to stabilize abnormal nerve excitation and blood vessel spasm i.e., eclampsia.
Applications	Functional Studies more details
Storage	Store at +4°C.
Kit Components	Components: Identifier; Magnesium Assay Buffer: WM; Magnesium Developer: Purple; Magnesium Enzyme Mix: Green; Magnesium Standard: Yellow
Compatible Sample Types	Urine, Serum, Plasma, Other biological fluids, Tissue Extracts, Cell Lysate, Cell culture media

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Assay time	0h 30m
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Sensitivity	40 μ M
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