

## Magnesium Detection Kit

### Product Information

#### Cat.No.

Kit-0530

#### 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<sup>2+</sup>. An enzyme linked reaction leads to formation of an intensely colored ( $\lambda_{max}$ 450nm) product whose formation is proportional to Mg<sup>2+</sup> concentration. The linear range of the assay is 2-15 nmoles with detection sensitivity ~40  $\mu$ M.

#### Size

100 tests

#### Description

Magnesium is the 11th most abundant element by mass in the human body. Mg<sup>2+</sup> 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<sup>2+</sup> is the metallic ion at the center of chlorophyll, and a common additive to fertilizers. Mg<sup>2+</sup> 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 Kit

## Magnesium Detection Kit

### Assay time

0h 30m

### Sensitivity

40  $\mu$ M

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