

## 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

---



CREATIVE **BIOMART**<sup>®</sup>  
Assay Kit

## Magnesium Detection Kit

### Assay time

---

0h 30m

---

### Sensitivity

---

40  $\mu$ M

---

Tel: 1-631-559-9269 1-516-512-3133

Email: [info@creative-biomart.org](mailto:info@creative-biomart.org)

Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA