CREATIVE BIOMART®
Assay Kit

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 Mg2+. An enzyme linked reaction leads to formation of an intensely colored (?max450nm) product whose formation is proportional to Mg2+ 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. Mg2+ 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. Mg2+ is the metallic ion at the center of chlorophyll, and a common additive to fertilizers. Mg2+ 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

Assay time

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0h 30m
Sensitivity
40 μM

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