CREATIVE BIOMART®
Assay Kit

Calcium Red Fluorescence Assay Kit

Product Information

Cat.No. Kit-0139

Product Overview

Calcium Assay Kit (Red Fluorescence) is used for the measurement of calcium level in physiology solutions.

Description

Calcium is essential for all living organisms, particularly in cell physiology, where movement of the calcium ion Ca2+ into and out of the cytoplasm functions as a signal for many cellular processes. Calcium is the fifth most abundant element by mass in the human body, where it is a common cellular ionic messenger with many functions, and also serves as a structural element in bone. Calcium plays an important role in mediating the constriction and relaxation of blood vessels, nerve impulse transmission, muscle contraction, and hormone secretion. The serum level of calcium is closely regulated within a fairly limited range (9 to 10.5 mg/dL) in the human body. Both hypocalcemia and hypercalcemia are serious medical disorders. Causes of low calcium levels include chronic kidney failure, vitamin D deficiency, and low blood magnesium levels.

Usage

For research use only (RUO)

Storage

Keep in -20°CProtect from moisture and lightAvoid repeated freeze-thaw cycles

Kit Components

Component A: Rhod Red Indicator (light sensitive) 2 vialComponent B: Assay Buffer 10 mlComponent C: 300 mM Calcium Standard 0.5 ml

Detection method Fluorometric

Compatible Sample Types

Physiological Solutions

Features & Benefits

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Sensitive: Detect as low as 10 μM calcium in solution.Continuous: Easily adapted to automation without a separation step.Convenient: Formulated to have minimal hands-on time. No interference with magnesium.Non-Radioactive: No special requirements for waste treatment.

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