CREATIVE BIOMART®
Assay Kit

Calcium Colorimetric Assay Kit

Product Information

Cat.No. Kit-0138

Product Overview

Calcium Assay Kit (Colorimetric) is used for providing a simple assay in the physiologically important range of calcium concentration.

Description

Calcium is essential for all living organisms, where Ca2+ sequestration and release into and out of the cytoplasm functions as a signal for many cellular processes. 99% of calcium is found in bones and teeth with the remaining 1% found in the blood and soft tissue. Serum calcium levels are tightly controlled (8.4-11.4 mg/dL) and any variation outside this range can have serious effects. Calcium plays a role in mediating the constriction and relaxation of blood vessels, nerve impulse transmission, muscle contraction, and hormone secretion. Calcium ion channels control the migration of calcium ions across cell membranes, permitting the activation and inhibition of a wide variety of enzymes. Causes of low calcium levels include chronic kidney failure, vitamin D deficiency, and low blood magnesium levels that can occur in severe alcoholism. The Calcium Assay Kit (Colorimetric) utilizes the chromogenic complex (λ = 575 nm) formed between calcium ions and 0-cresolphthalein to provide a simple assay in the physiologically important range of calcium concentration 0.4-100 mg/dL (0.1-25 mM).

Target Species

Mammals

Usage

For research use only (RUO)

Storage

The kit as supplied is stable for 1 year under proper storage conditions. Calcium Assay Buffer and Chromogenic Reagent are ready to use as supplied. Store at 4°C when not in use. Warm to room temperature before use. Protect from light.

Kit Components

Tel: 1-631-559-9269 1-516-512-3133
Email:info@creative-biomart.org
Fax:1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

CREATIVE BIOMART®
Assay Kit

Calcium Colorimetric Assay Kit

Calcium Assay Buffer: 15 mlChromogenic Reagent: 25 mlCalcium Standard (500 mM): 100 µl

Detection method Colorimetric

Compatible Sample Types

Biological Fluid, Cell Lysate, Culture Medium, Plasma, Serum, Tissue Lysate, Urine

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

Email:info@creative-biomart.org

Fax:1-631-938-8127

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