CREATIVE BIOMART®
Assay Kit

Calcium Assay Kit

Product Information

Cat.No. Kit-0136

Product Overview

Calcium Assay Kit is a quantitative colorimetric calcium determination at 612 nm.

Description

CALCIUM is measured to monitor diseases of the bone or calcium regulation disorders. Increased calcium levels in serum are reported in hyperparathyroidism, metastatic bone lesions and hypervitaminosis, while decreased levels are observed in hypoparathyroidism, nephrosis, rickets, steatorrhea, nephritis and calcium-losing syndromes. Urinary calcium levels aid the clinician in understanding how the kidneys handle calcium in certain diseases of the parathyroid gland. Urinary calcium levels are also essential in the medical evaluation of kidney stones.

Applications

Direct Assays: Ca2+ in serum, urine, saliva etc.Drug Discovery/Pharmacology: effects of drugs on calcium metabolism.Food and Beverages: calcium determination.Environment: calcium determination in water and soil.

Usage

For research use only (RUO)

Storage

Store Reagent and Standard at 4°C. Shelf life: 12 months after receipt.

Kit Components

Reagent A 50 mLReagent B 50 mLCalcium standard: 20 mg/dL Ca2+ 1 mL

Detection method Colorimetric

Compatible Sample Types

Saliva, Serum, Urine

Features & Benefits

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

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Sensitive and accurate: Use as little as 5 µL samples. Linear detection range 0.08 mg/dL (20µM) to 20 mg/dL (5mM) Ca2+ in 96-well plate assay.Simple and high-throughput: The procedure involves addition of a single working reagent and incubation for 3 min. Can be readily automated as a high-throughput assay for thousands of samples per day.Improved reagent stability and versatility: The optimized formulation has greatly enhanced reagent and signal stability. Cuvet or 96-well plate assay.Low interference in biological samples. No pretreatments are needed. Assays can be directly performed on raw biological samples i.e., in the presence of lipid, protein and minerals such as magnesium, iron and zinc.

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