CREATIVE BIOMART®
Assay Kit

Citrate Assay Kit

Product Information

Cat.No. Kit-0228

Product Overview

Citrate Assay Kit is a quantitative colorimetric/fluorimetric determination of citrate at OD570, FL530/585 nm.

Description

CITRATE is an intermediate in the citric acid cycle and is involved in fatty acid synthesis. Citrate Assay Kit provides a simple, and automation-ready procedure for measuring citrate concentration. Citrate is converted into pyruvate which is then oxidized with the conversion of the dye into a colored and fluorescent form. The color intensity at 570 nm or fluorescence intensity at λex/em = 530/585 nm is directly proportional to the citrate concentration in the sample.

Applications

Citrate determination in biological samples (e.g. plasma, serum, urine, tissue and culture media.)

Usage

For research use only (RUO)

Storage

Store all kit components at -20°C. Shelf life of six months after receipt.

Kit Components

Developer 10 mLDye Reagent 120 µLCitrate Standard 500 µLCL Enzyme DriedODC Enzyme 120 µL

Detection method Colorimetric, Fluorimetric

Compatible Sample Types

Culture Medium, Plasma, Serum, Tissue, Urine

Features & Benefits

Fast and sensitive. Linear detection range: 4 to 400 µM citrate for colorimetric assays and 0.5 to 40 µM for fluorimetric assays.Convenient and high-throughput. Homogeneous "mix-incubate- measure"

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type assay. Can be readily automated on HTS liquid handling systems for processing thousands of samples per day.

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