

Malate Assay Kit

Product Information

Cat.No.

Kit-0531

Product Overview

Malate Assay Kit is used to detecting Malate.

Description

L(-) Malate is a TCA cycle intermediate. It plays an important role in the Calvin cycle during carbon fixation in plants. In lower organisms, malate is converted to lactate during malolactic fermentation with the formation of CO₂. Malate is frequently used as an additive in the food and pharmaceutical industries, so quantitating malic acid is important in manufacturing beer, wine, cheese and fruits, among others. We has developed an easy and sensitive assay to measure the L(-) Malate level in a variety of samples. In the assay, malate is specifically oxidized to generate a product which reacts with a substrate probe to generate color ($\lambda_{max} = 450 \text{ nm}$). The assay can detect 1 ~ 35 nmol of Malate in a 50 μl sample with a detection sensitivity $\sim 20 \mu\text{M}$.

Target Species

Mammals

Usage

For research use only (RUO)

Storage

Store kit at $\square 20^{\circ}\text{C}$, protect from light. Warm Malate Assay Buffer to room temperature before use. Briefly centrifuge all small vials prior to opening. Read the entire protocol before use.

Kit Components

Malate Assay Buffer 20 ml
Malate Enzyme Mix: lyophilized. 1 vial
WST Substrate: lyophilized. 1 vial
Malate Standard (10 μmol): lyophilized. 1 vial

Detection method Colorimetric

Compatible Sample Types



CREATIVE **BIOMART**[®]
Assay Kit

Malate Assay Kit

Beer, Biological Fluid, Cell Culture Supernatant, Cheese, Food, Fruit, Plasma, Serum, Tissue Culture Supernatant, Urine, Wine

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

Fax: 1-631-938-8127

Email: info@creative-biomart.org

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