CREATIVE BIOMART®
Assay Kit

# Malate Colorimetric Assay Kit

## Product Information

**Cat.No.** Kit-0532

**Product Overview**

Malate Assay Kit (Colorimetric) is used for quantitative determination of L-Malate (L-Malic Acid) using colourmetric methods.

**Description**

L-MALIC ACID, or L-malate, is a dicarboxylic acid that is made by all living organisms and plays an important role in the Calvin and Krebs Cycle. It is a source of CO 2 for the Calvin cycle in plants and is also an intermediate that forms from fumarate in the Krebs Cycle. Malate is frequently used in food and beverage industries as an additive in products such as wine, beer, candies, etc.Glucose-6-Phosphate Assay Kit (Colorimetric) is based on malate dehydrogenase catalyzed oxidation of malate in which the formed NADH reduces a formazan (MTT) reagent. The intensity of the product color, measured at 565 nm is proportional to the malate concentration in the sample.

**Applications**

Direct Assays: malate in food, juice, beverage and other agricultural products.

**Usage**

For research use only (RUO)

**Storage**

Store the kit at -20°C.

**Kit Components**

Assay Buffer 10 mLEnzyme A 120 µLEnzyme B 120 µLNAD/MTT 1 mLStandard (20 mM L-Malate) 1 mL

**Detection method** Colorimetric

**Compatible Sample Types**

Beverage, Food, Juice, Agricultural products

**Features & Benefits**

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Fast and sensitive. Use of 20 µL sample. Linear detection range 0.02 to 2 mM L-malate in 96-well plate assay.Convenient. The procedure involves adding a single working reagent, and reading the optical density at time 15 minutes. Room temperature assay. No 37°C heater is needed.High-throughput. Can be readily automated as a high-throughput 96-well plate assay for thousands of samples per day.

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