CREATIVE BIOMART®
Assay Kit

Oxaloacetate Assay Kit

Product Information

Cat.No. Kit-0638

Product Overview

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

Description

OXALOACETATE (OAA) is an intermediate in the citric acid cycle and participates in gluconeogenesis. OAA is formed by the oxidation of malate, by deamidation of aspartate or by condensation of CO2 with pyruvate or phosphoenolpyruvate. Oxaloacetate Assay Kit provides a simple, direct and automation-ready procedure for measuring oxaloacetate concentration. OAA is converted into pyruvate which is then oxidized with the conversion of the dye into a colored and fluorescent form. The color intensity of the oxidized dye at 570 nm or fluorescence intensity at λex/em = 530/585 nm is directly proportional to the oxaloacetate concentration in the sample.

Applications

Direct Assays: oxaloacetate in plasma, serum, 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 µLODC Enzyme 120 µLOxaloacetate Standard Dried

Detection method Colorimetric, Fluorimetric

Compatible Sample Types

Culture Medium, Plasma, Serum, Tissue

Features & Benefits

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Sensitive and accurate. Linear detection range: 7 to 400 μM oxaloacetate for colorimetric assays and 1 to 40 μM for fluorimetric assays.

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