

## Oxaloacetate Assay Kit II

### Product Information

#### Cat.No.

Kit-0639

#### Product Overview

Oxaloacetate Assay Kit is used for quantifying OAA.

#### Description

Oxaloacetate (OAA, HOOC-CO-CH<sub>2</sub>-COOH) is a TCA cycle intermediate. It precedes citrate which is formed by the transfer of an acetyl group to OAA. OAA is formed by the deamidation of aspartate or condensation of CO<sub>2</sub> with pyruvate or PEP. Since mammals do not possess the enzymatic machinery to form TCA cycle intermediates from acetyl CoA, OAA is one of the anaplerotic entry points via pyruvate and pyruvate carboxykinase. The Oxaloacetate Assay Kit provides a simple, sensitive and rapid means of quantifying OAA in a variety of samples. In the assay, OAA is converted to pyruvate which is utilized to convert a nearly colorless probe to an intensely colored ( $\lambda_{max}$ = 570nm) and fluorescent (Ex/Em = 535/587nm) product. The Oxaloacetate Assay Kit can detect 0.1-10nmol (2-200  $\mu$ M) of OAA.

#### Target Species

Mammals

#### Usage

For research use only (RUO)

#### Storage

Store kit at -20°C, protect from light. Warm OAA Assay Buffer to room temperature before use. Briefly centrifuge all small vials prior to opening. Read the entire protocol before the assay.

#### Kit Components

Components 100 Assays Cap CodeOAA Assay Buffer 25 ml WMOAA Probe (in DMSO) 0.2 ml RedOAA Enzyme Mix lyophilized PurpleDeveloper lyophilized GreenOAA Standard (10  $\mu$ mol) lyophilized Yellow



CREATIVE BIOMART<sup>®</sup>  
Assay Kit

## Oxaloacetate Assay Kit II

**Detection method** Colorimetric, Fluorometric

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**Compatible Sample Types**

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Biological Fluid, Cell Culture Supernatant, Plasma, Serum, Tissue Culture Supernatant, Urine

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