

Oxaloacetate Assay Kit II

Cat. No. Kit-0639 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Oxaloacetate Assay Kit is used for quantifying OAA.
Description	Oxaloacetate (OAA, $\text{HOOC-CO-CH}_2\text{-COOH}$) 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_2 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 ($\lambda_{\text{max}} = 570\text{nm}$) and fluorescent ($\text{Ex/Em} = 535/587\text{nm}$) product. The Oxaloacetate Assay Kit can detect 0.1-10nmol (2-200 μM) 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 μmol) lyophilized Yellow

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

Detection method	Colorimetric, Fluorometric
Compatible Sample Types	Biological Fluid, Cell Culture Supernatant, Plasma, Serum, Tissue Culture Supernatant, Urine