

Malate Assay Kit

Cat. No. Kit-0531 **Lot. No.** (See product label)

SPECIFICATION

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 CO ₂ . 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 ($\lambda_{\text{max}} = 450 \text{ nm}$). The assay can detect 1 ~ 35 nmol of Malate in a 50 μsample with a detection sensitivity ~20 μM .
Target Species	Mammals
Usage	For research use only (RUO)
Storage	Store kit at -20°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

 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

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