CREATIVE BIOMART®
Assay Kit

Citric Acid (OA) Content Assay Kit

Product Information

Product Overview

Oxalic acid is a dicarboxylic acid commonly found in plant tissues. As an antagonist of mineral elements, consuming vegetables with high oxalic acid content over a long period can easily lead to diseases such as arthritis, hypocalcemia, and kidney stones. Oxalic acid can serve as a complexing agent, bleaching agent, precipitating agent, and reducing agent, and it is widely used in industries such as pharmaceuticals, dyeing, and plastics. Fe3+ can react with sulfosalicylic acid under acidic conditions to form a purple complex, which has a characteristic absorption peak at 510 nm. Oxalic acid and oxalate can lighten the color of this purple complex, and the absorbance value of the Fe3+ and sulfosalicylic acid complex decreases with the increase of oxalic acid. By detecting changes in absorbance, the oxalic acid content can be determined.

Size

48 Samples

Storage

4□

Shipping

Ice pack

Kit Components

Extraction Liquid: Liquid, 60mL × 1 bottle, store at 4°C.

Reagent One: Powder, mg × 1 vial, store at 4°C. Before use, shake to bring the powder to the bottom, then add 1.5mL of distilled water to dissolve and reserve.

Reagent Two: Liquid, 20mL × 1 bottle, store at 4°C.

Reagent Three: Liquid, 1.5mL × 1 vial, store at 4°C.

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Standard: Powder, mg × 1 vial, store at 4°C. This reagent is used if recalibration of the standard curve is necessary.

Materials Required but Not Supplied

Microplate reader, 96-well plate, benchtop centrifuge, adjustable pipette, water bath/metal bath, mortar, ice, distilled water.

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