CREATIVE BIOMART®
Assay Kit

Acetate Assay Kit

Product Information

Cat.No. Kit-0007

Product Overview

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

Description

ACETATE is a common anion and fundamental to all forms of life. When bound to coenzyme A, it is central to the metabolism of carbohydrates and fats. It is acid form, acetic acid, is produced and excreted by acetic acid bacteria, such as Acetobacter genus and Clostridium acetobutylicum, which are found universally in foodstuffs, water, and soil. Acetic acid is also a component of the vaginal lubrication of humans and other primates, where it appears to serve as a mild antibacterial agent. Acetic acid is the main component of vinegar, and extensively used in food, dyes, paints, glue and synthetic fibres. Acetate Assay Kit uses enzyme-coupled reactions to form a colored, fluorescent product. The color absorbance at 570nm or fluorescence intensity at 530nm/585nm is directly proportional to the acetate concentration in the sample.

Applications

Direct Assays: acetate in biological samples such as serum/plasma, in food, agriculture and environmental samples.Drug Discovery/Pharmacology: effects of drugs on acetate metabolism.

Usage

For research use only (RUO)

Storage

Store all components at -20°C. Shelf life of six months after receipt.

Kit Components

Assay Buffer 25 mLDeveloper 1 mLDye Reagent 120 µLATP 120 µLEnzyme A DriedEnzyme B DriedStandard 1 mL

Detection method Colorimetric, Fluorimetric

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Assay Kit

Acetate Assay Kit

Compatible Sample Types

Agriculture, Environment Samp, Food, Plasma, Serum

Features & Benefits

Use as little as 10 µL samples. Detection range: 0.20 to 20 mM acetate for colorimetric assays and 0.13 to 2 mM for fluorimetric assays.

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