

# Acetate Assay Kit

**Cat. No.** Kit-0007    **Lot. No.** (See product label)

## SPECIFICATION

### 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. Its 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 mL Developer 1 mL Dye Reagent 120 µg ATP 120 µg Enzyme A

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	DriedEnzyme B DriedStandard 1 mL
<b>Detection method</b>	Colorimetric, Fluorimetric
<b>Compatible Sample Types</b>	Agriculture, Environment Samp, Food, Plasma, Serum
<b>Features &amp; Benefits</b>	Use as little as 10 $\mu$ 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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