CREATIVE BIOMART®
Assay Kit

Acetyl Co-A Content Assay Kit

Product Information

Product Overview

Significance of Measurement: Acetyl-CoA is a central metabolic intermediate widely present in animals, plants, microorganisms, and cultured cells. It serves as a metabolic hub linking carbohydrate, lipid, and protein metabolism through the tricarboxylic acid cycle and oxidative phosphorylation. Acetyl-CoA is also a precursor for fatty acids, ketone bodies, cholesterol, and other bioactive molecules.
Principle of Measurement: Malate dehydrogenase catalyzes the conversion of malate to oxaloacetate with NADH production. Citrate synthase then catalyzes the condensation of acetyl-CoA and oxaloacetate to form citrate. The rate of NADH generation is proportional to acetyl-CoA content and is measured at 340 nm.

Size

50t/48s

Storage

Store at -20 °C. Shelf life: 6 months.

Detection method Spectrophotometer

Materials Required but Not Supplied

UV spectrophotometer, water bath, benchtop centrifuge, adjustable pipettes, quartz cuvettes, mortar, ice, and distilled water.

Tel: 1-631-559-9269 1-516-512-3133
Email:info@creative-biomart.org
Fax:1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA