CREATIVE BIOMART®
Assay Kit

Citrate Synthase (CS) Activity Assay Kit

Product Information

Product Overview

Significance: CS (EC 2.3.3.1) is a key enzyme in the tricarboxylic acid cycle, widely present in mitochondria of animals, plants, microbes, and cultured cells, and serves as a rate-limiting step and major regulatory site.
Principle: CS catalyzes the condensation of acetyl-CoA and oxaloacetate to form citryl-CoA, which is further hydrolyzed to citrate. This reaction converts colorless DTNB to yellow TNB, which has a characteristic absorbance at 412 nm.

Size

50t/24s

Storage

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

Detection method Spectrophotometer

Materials Required but Not Supplied

Visible spectrophotometer, bench centrifuge, water bath, adjustable pipettes, 1 mL glass cuvettes, mortar, ice, anhydrous ethanol, distilled water.

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