

## 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.