

## Citrate synthase from *E. coli*, Recombinant

Cat. No. NATE-1059

Lot. No. (See product label)

### Introduction

**Description** The enzyme citrate synthase E.C. 2.3.3.1 (previously 4.1.3.7)] exists in nearly all living cells and stands as a pace-making enzyme in the first step of the citric acid cycle (or Krebs cycle). Citrate synthase is localized within eukaryotic cells in the mitochondrial matrix, but is encoded by nuclear DNA rather than mitochondrial. It is synthesized using cytoplasmic ribosomes, then transported into the mitochondrial matrix.

**Synonyms** CS; EC 4.1.3.7; EC 2.3.3.1; 9027-96-7; Citrate (Si)-synthase; (R)-citric synthase

### Product Information

**Source** *E. coli*

**Form** Liquid

**EC Number** EC 2.3.3.1

**CAS No.** 9027-96-7

**Molecular Weight** ~ 50kD

**Activity** ~ 15 U/mg protein

**Unit Definition** One Unit is defined as the amount of enzyme required to produce one  $\mu$ mole of citric acid from oxaloacetic acid and acetyl-CoA, measured at 232 nm in Tris-HCl buffer at pH 8.0 and 25°C.

### Storage and Shipping Information

**Storage** 4°C