

## Native Porcine Citrate Synthase

Cat. No. NATE-0166

Lot. No. (See product label)

### Introduction

**Description** Citrate synthase catalyses the conversion of Citrate to acetyl-CoA in the presence of coenzyme-A with the release of H<sub>2</sub>O and oxaloacetate. The enzyme has a molecular weight of 85 kDa and a pI of 6.1-6.6. It is inhibited by fluoroacetyl-CoA, palmitoyl-CoA, and citroyl-CoA. It is also inhibited when it is acetylated by acetic anhydride or iodinated by iodine.

**Synonyms** CS; EC 4.1.3.7; EC 2.3.3.1; 9027-96-7; Citrate (Si)-synthase; (R)-citric synthase; Citrate oxaloacetate-lyase [(pro-3S)-CH<sub>2</sub>COO<sup>-</sup>→acetyl-CoA]

### Product Information

**Species** Porcine

**Source** Porcine heart

**Form** ammonium sulfate suspension. Suspension in 3.2 M (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub> solution, pH 7.0.

**EC Number** EC 4.1.3.7

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

**Activity** > 100 units/mg protein

**Buffer** H<sub>2</sub>O: soluble 1.0 mg/mL, clear

**Pathway** 2-Oxocarboxylic acid metabolism, organism-specific biosystem; Biosynthesis of amino acids, conserved biosystem; Citrate cycle (TCA cycle), organism-specific biosystem

**Function** Citrate (Si)-synthase activity

**Unit Definition** One unit will form 1.0 μmole of Citrate from oxalacetate and acetyl CoA per min at pH 8.0 at 37°C.

### Storage and Shipping Information

**Storage** 2-8°C