

## Native Porcine Fumarase

Cat. No. NATE-0267

Lot. No. (See product label)

### Introduction

#### Description

Fumarase catalyzes the reversible hydration of fumarate to malate. In its mitochondrial form, fumarate is involved in the Krebs Cycle, while the cytosolic form is involved in amino acid metabolism.

#### Applications

Fumarase is used as a protein calibration standard in the purification of intact DNA polymerase  $\alpha$ /primase from mouse cells.

#### Synonyms

EC 4.2.1.2; fumarase; L-malate hydro-lyase; (S)-malate hydro-lyase; 9032-88-6

### Product Information

#### Species

Porcine

#### Source

Porcine heart

#### Form

ammonium sulfate suspension; Suspension in 3.2 M  $(\text{NH}_4)_2\text{SO}_4$ , 0.05 M  $\text{KH}_2\text{PO}_4$ , pH 7.5, 0.014 M 2-mercaptoethanol

#### EC Number

EC 4.2.1.2

#### CAS No.

9032-88-6

#### Activity

300-500 units/mg protein (biuret)

#### Unit Definition

One unit will convert 1.0  $\mu\text{mole}$  of L-malate to fumarate per min at pH 7.6 at 25°C.

### Storage and Shipping Information

#### Storage

2-8°C