

## 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 (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub>, 0.05 M KH<sub>2</sub>PO<sub>4</sub>, 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  $\mu$ mole of L-malate to fumarate per min at pH 7.6 at 25°C.

### Storage and Shipping Information

**Storage** 2-8°C