Creative Enzymes®

Native Porcine Lipoamide Dehydrogenase

Cat. No. NATE-0894

Lot. No. (See product label)

Introduction

Description Lipoamide dehydrogenase (or diaphorase) catalyzes the following reaction: Lipoamide + NADH + H+ → Dihydrolipoamide + NAD+. The enzyme occurs in mammalian and microbial cells and it catalyzes a number of reactions which involve NAD+ or NADH. Lipoamide dehydrogenase from porcine heart contains two polypeptide chains which are similar. It has two molecules of tightly bound flavin adenine dinucleotide (FAD). The molecular weight of the porcine heart enzyme is between 100,000 and 114,000.

Synonyms NADH: lipoamide oxidoreductase; EC 1.6.4.3; Lipoamide Dehydrogenase; LD

Product Information

Species Porcine

Source Porcine Heart

Form Freeze-dried powder

EC Number EC 1.6.4.3

Molecular Weight 100-114 kDa

Activity 25 U/mg protein

Unit Definition The amount of enzyme which catalyzes the oxidation of one micromole NADH per minute at pH 5.65 and 25°C.

Storage and Shipping Information

Stability Store at -20°C (-4°F)