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)