Creative Enzymes®

Native Porcine Malic Dehydrogenase

Cat. No. NATE-0447

Lot. No. (See product label)

Introduction

Description	Malic dehydrogenase (MDH) exists as two isoforms within eukaryotic cells, one that is expressed in the mitochondria and functions in the TCA cycle and one in the cytoplasm that converts malate from the mitochondria back into oxaloacetate.
Synonyms	malic dehydrogenase; L-malate dehydrogenase; NAD-L-malate dehydrogenase; malic acid dehydrogenase; NAD-dependent malic dehydrogenase; NAD-malate dehydrogenase; NAD-malic dehydrogenase; malate (NAD) dehydrogenase; NAD-dependent malate dehydrogenase; NAD-specific malate dehydrogenase; NAD-linked malate dehydrogenase; MDH; L-malate-NAD+ oxidoreductase; EC 1.1.1.37; 9001-64-3

Product Information

Species	Porcine
Source	Porcine heart
Form	Type I, Type III, ammonium sulfate suspension; Suspension in 2.8 M (NH4)2SO4 solution, pH 6.0; Type II, ammonium sulfate suspension, Suspension in 3.2 M (NH4)2SO4, 0.1 M KH2PO4, pH 7.0; Type IV, buffered aqueous glycerol solution, Solution in 50% glycerol containing 0.05 M potassium phosphate buffer, pH 7.5.
EC Number	EC 1.1.1.37
CAS No.	9001-64-3
Activity	Type I, ~1,000 units/mg protein (biuret); Type II, > 400 units/mg protein (biuret); Type III, > 600 units/mg protein (biuret); Type IV, 600-1000 units/mg protein (biuret)
Unit Definition	One unit will convert 1.0 µmole of oxalacetate and β-NADH to L-malate and β-NAD per min at pH 7.5 at 25°C, unless otherwise indicated below.

Storage and Shipping Information

Storage	2-8°C