Creative Enzymes®

Native Thermus flavus Malic Dehydrogenase

Cat. No. NATE-0448

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.
Applications	Malic dehydrogenase has been used in a study to assess electron transport chain activity in mit ochondria from human skeletal muscle. It has also been used in a study to investigate activities of enzymes and ammonia in serum of rats with fluoride hyperglycemia.
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

Source	Thermus flavus
Form	lyophilized powder; Contains dextran
EC Number	EC 1.1.1.37
CAS No.	9001-64-3
Activity	> 50 units/mg solid
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.

Storage and Shipping Information

Storage	−20°C