

Native Bovine Malic Dehydrogenase

Cat. No. NATE-0445

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 a flow injection system for on-line monitoring of fumaric acid in biological processes. It has also been used in a study to investigate a root-knot nematode parasitizing peanut in Texas.

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

Bovine

Source

Bovine heart

Form

ammonium sulfate suspension; Suspension in 3 M (NH₄)₂SO₄-0.01 M KH₂PO₄ solution, pH 7.3

EC Number

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CAS No.

9001-64-3

Activity

2000-4000 units/mg protein (modified Warburg-Christian)

Contaminants

<0.01% Glutamic-Oxalacetic Transaminase; <0.01% Glutamic-Pyruvic Transaminase

Unit Definition

One unit will convert 1.0 μ mole of oxaloacetate and β -NADH to L-malate and β -NAD per min at pH 7.5 at 25°C.

Storage and Shipping Information

Storage

2-8°C