

Native Chicken Malic Dehydrogenase (oxaloacetate-decarboxylating)

Cat. No. NATE-0446

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.

ApplicationsMalic dehydrogenase has been used in a study to assess the dietary manganese

requirement of juvenile yellow catfish (Pelteobagrus fulvidraco) and effects on whole body mineral composition and hepatic intermediary metabolism. It has also

been used in a study to investigate the establishment and biological characterization of a fibroblast cell line from the Langshan chicken.

Synonyms malic enzyme (ambiguous); pyruvic-malic carboxylase (ambiguous); malate

dehydrogenase (decarboxylating, NADP+); NADP+-linked decarboxylating malic enzyme; NADP+-malic enzyme; NADP+-specific malic enzyme; NADP-specific malate dehydrogenase; malate dehydrogenase (NADP+, decarboxylating); L-

malate:NADP+oxidoreductase; EC 1.1.1.40; 9028-47-1

Product Information

Species Chicken

Source Chicken liver

Form ammonium sulfate suspension; Suspension in 2.9 M (NH4)2SO4 solution containing

10 mM potassium phosphate, 0.5 mM 2-mercaptoethanol, 10 mM manganese

1/1

chloride, and 3 mM Na4EDTA, pH 6.0

EC Number EC 1.1.1.40

CAS No. 9028-47-1

Activity 10-30 units/mg protein (modified Warburg-Christian)

Unit Definition One unit will convert 1.0 μmole of L-malate and NADP to pyruvate, CO2, and

NADPH per min at pH 7.4 at 25°C.

Storage and Shipping Information

Storage 2-8°C

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