

Native Porcine Malate Dehydrogenase, IFCC Quality

Cat. No. DIA-278

Lot. No. (See product label)

Introduction

Description Dehydrogenase that catalyzes the interconversion of malate to oxaloacetate. Rely on the proven

diagnostic quality of this product. Tested according to the recommendations of the International

Federation of Clinical Chemistry (IFCC).

Applications Use Malate Dehydrogenase in diagnostic tests for the determination of aspartate aminotransferase or

in applications for citric and acetic acid testing.

Synonyms Malate Dehydrogenase, IFCC Quality; malic dehydrogenase; L-malate dehydrogenase; malic acid

dehydrogenase; MDH

Product Information

Species Porcine

Source Porcine heart

Appearance White lyophilizate

Molecular

Weight

Activity >70 U/mg lyophilizate

70 kDa

Contaminants Aspartate aminotransferase (AST/GOT): <0.001 Alanine aminotransferase (ALT/GPT): <0.001

Glutamate dehydrogenase: <0.005

Isoelectric

point

6.1-6.4

pH Stability 7.0-9.0

Optimum pH 7.5

Thermal stability

Up to +40°C

Michaelis

L-malate: 4.0 x 10-4 mol/l L-tartrate: 9.0 x 10-3 mol/l meso-tartrate: 1.2 x 10-3 mol/l oxaloacetate: 3.3

Constant

x 10-5 mol/l

Specificity

L-configuration of malate and tartrate. NAD can be replaced by its analogs, but not by NADP.

Activators

Phosphate, arsenate, Zn2+

Inhibitors

lodinated compounds such as iodine cyanide, thyroxine and molecular iodine, phenols, 1,10-

phenanthroline, 8-hydroxyquinoline, sulfide, nicotinic acidamide, adenine, AMP, ATP; oxaloacetate

(excess).

Storage and Shipping Information

Stability At +2 to +8°C within specification range for 12 months. Store dry.

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