Tribioscience

Malate dehydrogenase, Enzyme Activity

Catalog	Unit
TBP0035-10MG	10 mg
TBP0035-50MG	50 mg

Preparation and Specification

Appearance: Slightly yellowish amorphous powder, lyophilized

Activity: GradeII 40U/mg-solid or more

Contaminants: Glutamate oxaloacetate transaminase ≤1.0×10^{-3}%

Lactate dehydrogenase ≤1.0×10^{-3}%

NADH oxidase≤1.0×10^{-3}%

L-Malate : NAD^+ oxidoreductase (EC 1.1.1.37)

Properties

Stability: Stable at -20°C for at least One year

Molecular weight: approx. 140,000

Isoelectric point: pH 4.8±0.1

Michaelis constants: 5.4×10^{-5}M (L-Malate), 5.0×10^{-6}M (Oxaloacetate), 8.1×10^{-6}M (NADH)

Structure: 4 subunits per enzyme molecule

Inhibitors: Hg^{++}

Optimum pH: 8.0

Optimum temperature: 70°C

pH Stability: pH 3.0-9.0 (25°C, 20hr)

Thermal stability: below 70°C (pH 7.5, 15min)

Applications

This enzyme is useful for enzymatic determination of L-malate and of glutamate oxaloacetate transaminase (GOT) in clinical analysis.

For research use only