

Malate Dehydrogenase from microorganism

Product Code: 183654

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

SKU: 183654

Category: [Enzymes](#)

PRODUCT DESCRIPTION

SPECIFICATIONS

Product Name: L-malate: NAD⁺ oxidoreductase

EC: 1.1.1.37

Appearance: Slightly yellowish amorphous powder, lyophilized

Activity: Grade II, 40 U/mg-solid or more

Contaminants:

- Glutamate oxaloacetate transaminase $\leq 1.0 \times 10^{-3}\%$
- Lactate dehydrogenase $\leq 1.0 \times 10^{-3}\%$
- NADH oxidase $\leq 1.0 \times 10^{-3}\%$

Stability: Stable at - 20°C for at least 12 months

Molecular weight: Approx. 140,000

Isoelectric point: pH 4.8 ± 0.1

Michaelis constants:

- $5.4 \times 10^{-5} \text{ M}$ (L-Malate), $5.0 \times 10^{-6} \text{ M}$ (Oxaloacetate)
- $8.1 \times 10^{-6} \text{ M}$ (NADH)

Structure: 4 subunits per mole of enzyme

Inhibitors: Hg^{2+}

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)