

## **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

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**SKU:** 183654

**Category:** [Enzymes](#)

## **PRODUCT DESCRIPTION**

### **SPECIFICATIONS**

**Product Name:** L-malate: NAD<sup>+</sup> 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  $4.8 \pm 0.1$

**Michaelis constants:**

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

**Structure:** 4 subunits per mole of enzyme

**Inhibitors:** Hg<sup>2+</sup>

**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)