

Malate dehydrogenase recombinant from Microorganism

Product Code: 181102

EC: 1.1.1.37

SKU: 181102

Category: [Enzymes](#)

PRODUCT DESCRIPTION

SPECIFICATIONS

EC 1.1.1.37

Product name: (s)-malate: NAD⁺ oxydoreductase

Appearance: White amorphous powder lyophilized

Activity: > 60 U/mg powder

Contaminants: Glutamate oxaloacetate transaminase $\leq 1.0 \times 10^{-3}$ %

Lactate dehydrogenase $\leq 1.0 \times 10^{-3}$ %

NADH oxidase $\leq 1.0 \times 10^{-4}$ %

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

Molecular weight: Approx. 140,000

Isoelectric point: pH 4.8 ± 0.1

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

Inhibitors: Hg²⁺

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)