

Lactate Dehydrogenase from Pig heart

Product Code: 181547

EC no: 1.1.1.27

SKU: 181547

Category: [Enzymes](#)

PRODUCT DESCRIPTION

SPECIFICATIONS:

EC 1.1.1.27

Product name: (S)-Lactate: NAD⁺ oxidoreductase

Appearance: Crystalline suspension in 1.6M ammonium sulfate solution

Activity: Grade II, 2,000 U/ml or more

Contaminants:

- Malate dehydrogenase: $\leq 5.0 \times 10^{-2}\%$
- GPT: $\leq 3.0 \times 10^{-2}\%$
- Pyruvate kinase: $\leq 3.0 \times 10^{-2}\%$

Stabilizers: NADH, 2-mercaptoethanol

Stability: Stable at 2-8 °C for at least 12 months

Molecular weight: 115,000 ± 6,500

Michaelis constants: $2.5 \times 10^{-2} \text{M}$ (Lactate), $1.0 \times 10^{-4} \text{M}$ (Pyruvate)

Structure: 4 subunits per mol of enzyme

Inhibitors: I^- , Ag^+ , Hg_2^{2+} , p-chloromercuribenzoate, LDH inhibitors (formed from NADH)

Optimum pH: 6.0 – 7.4

Optimum temperature: above 60°C

pH Stability: pH 6.0–8.0 (23°C, 22hr)

Thermal stability: Below 50 °C (pH 7.4, 10min)