

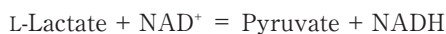
LDH (R.M.)

L-Lactate dehydrogenase

L-Lactate : NAD⁺ oxidoreductase (EC 1.1.1.27)

from Rabbit muscle

Reaction Equation



Specification

Specific Activity

IU/mg protein

Contaminants

Malate dehydrogenase

Myokinase

Pyruvate kinase

Glutamic-Pyruvic transaminase^{**}

Glutamic-oxaloacetic transaminase^{**}

^{**}α-Hydroxyglutarate dehydrogenase activation included.

Specifications

>400 units

<0.03%

<0.01%

<0.01%

<0.005%

<0.005%

Assay Procedure

I. Spectrophotometric Method

Wavelength ; 340 nm, Light path length ; 1 cm,

Temperature ; 25°C

Pipette the following reagents into a cuvette

3.00 mL Potassium phosphate buffer(0.1 mol/L, pH 7.0)

0.10 mL Li-pyruvate or Na-pyruvate (25.4 mmol/L)

0.05 mL NADH (10 mg/mL) dissolved in Tris
(10 mmol/L)

0.02 mL LDH (about 3 IU/mL)

II. Calculation

$$\frac{\Delta A/\text{min} \cdot V \cdot D}{6.3 \cdot d \cdot v} = \text{IU/mL}$$

ΔA/min = The change in absorbance at 340 nm/minute

V = Total volume of reaction mixture (3.17 mL)

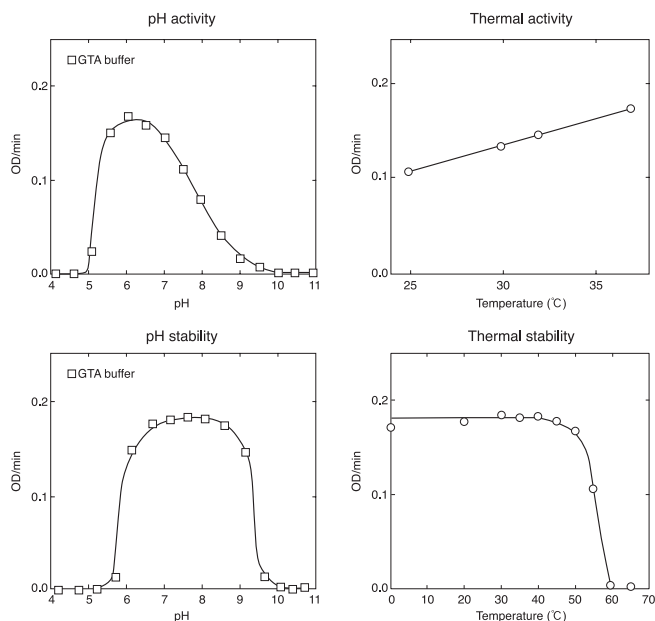
D = Enzyme dilution factor

6.3 = mM extinction coefficient of NADH
(L·mmol⁻¹·cm⁻¹)

d = Light path length (1 cm)

v = Volume of enzyme sample (0.02 mL)

Reference Data



Preparation and storage

Product Code : LDH-22

Ammonium sulfate suspension.....1°C~10°C

IU per 1 ml suspension is approximately 5,000 units.

OYC No./Package

OYC No.	Package
46590022	10,000 units
46591022	50,000 units
46592022	100,000 units
46589902	Bulk

(Research reagent use only, not for medical use.)



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