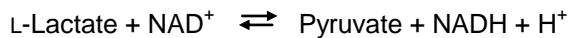


rLDH(RM)

recombinant L-Lactate dehydrogenase from rabbit muscle
L-Lactate : NAD⁺ oxidoreductase (EC 1.1.1.27)

Reaction Equation



Specification

Specific activity	
IU/mg protein	> 400 units
Contaminants	
Malate dehydrogenase	< 0.03%
Myokinase	< 0.01%
Pyruvate kinase	< 0.01%
Glutamic-pyruvic transaminase*	< 0.005%
Glutamic-oxaloacetic transaminase*	< 0.005%

* α -Hydroxyglutarate dehydrogenase activation included.

Preparation and Storage

Lyophilized powder
Store below -20°C

Properties

pH stability	: pH 6.5-8.0 (25°C, 1 week)
Thermal stability	: \leq 45°C (pH 7.5, 10 min)
Optimum pH	: 6.0
Optimum temp.	: 50° C
Km value	: 2.1 \times 10 ⁻⁴ mol/L (Pyruvate), 1.2 \times 10 ⁻⁵ mol/L (NADH)
Molecular weight	: 34 kDa (SDS-PAGE)

Assay Procedure

I. Spectrophotometric Method

Wavelength: 340 nm, Light path length: 1 cm
Final volume: 3.17 mL, Temperature: 25°C

Pipette the following reagents into a cuvette

3.00 mL	K-phosphate buffer (0.1 mol/L, pH 7.0)
0.10 mL	Na-pyruvate (25.4 mmol/L)
0.05 mL	NADH (10 mg/mL) dissolved in Tris (10 mmol/L)
0.02 mL	rLDH (RM) (approx. 3 IU/mL)

II. Calculation

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

$\Delta A/\text{min}$: The change in absorbance at 340 nm/minute
(reverse the blank activation of rLDH(RM)(-))

V : Total volume of reaction mixture (3.17 mL)

D : Enzyme dilution factor

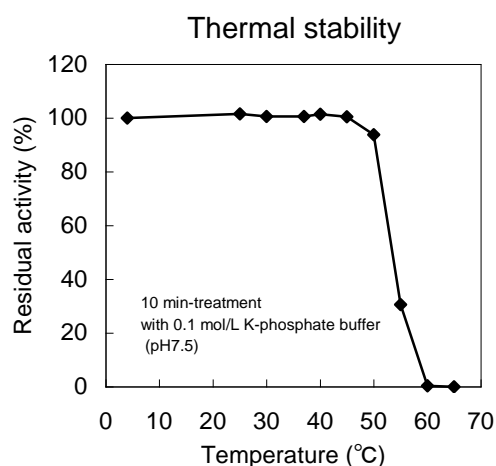
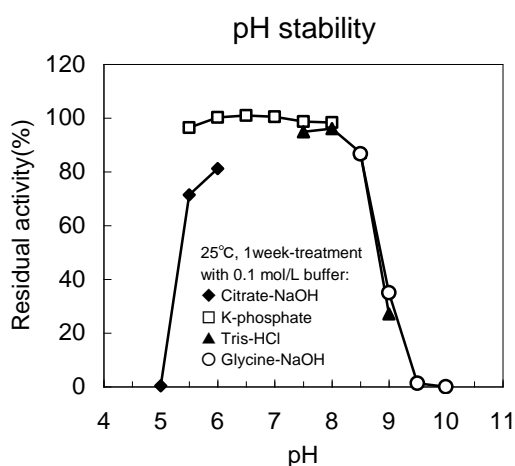
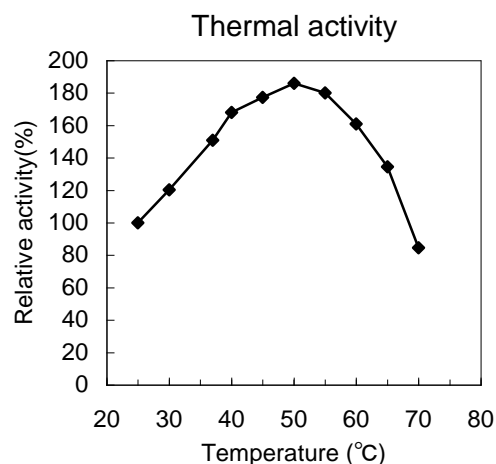
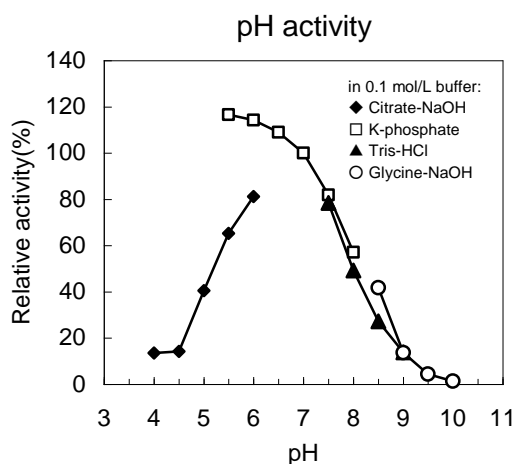
6.3 : mmol/L extinction coefficient of NADH
(L \cdot mmol⁻¹ \cdot cm⁻¹)

d : Light path length (1 cm)

v : Volume of enzyme sample (0.02 mL)



Reference Data



Product name	OYC No.	Package	Price
rLDH(RM)	46764900	Bulk	Please Inquiry

The product is intended for in vitro diagnostic or research use only.



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Please contact the one that best suits your need.

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