

Lactate Dehydrogenase-SL

FOR THE QUANTITATIVE MEASUREMENT OF LACTATE DEHYDROGENASE

METHOD: ENZYMATIC; KINETIC

LDH measurements are used as an aid to monitor and diagnose liver, heart, kidney, skeletal muscle and red blood cell damage.

The Sekisui Lactate Dehydrogenase-SL procedure incorporates the method proposed by Wacker, in accordance with the recommendations of the International Federation of Clinical Chemistry (IFCC).⁽¹⁾ It is intended for the measurement of lactate dehydrogenase in serum.

Features:

- Two part stable liquid
- Wide linear range
- No significant interference displayed from samples with elevated levels of icterus or lipemia
- Applicable to multiple chemistry platforms

Benefits:

- Easy to use
- Reduces the need for repeat testing and sample dilutions
- High reliability of testing
- Flexible laboratory testing

Performance Characteristics

Precision

- Within-Run: $\leq 0.9\%$
- Total Precision: $\leq 1.4\%$

Accuracy^(a)

- Slope: 1.01
- Intercept: -4.8 U/L
- Correlation Coefficient: 0.9998

Linearity

- 10 - 1350 U/L

No Significant Interferences Up to Levels Indicated

- Bilirubin: 40 mg/dL (684 $\mu\text{mol/L}$)
- Intralipid: 1000 mg/dL (3000 mg/dL (33.9 mmol/L) Simulated Triglycerides)

Reference Range⁽²⁾

- Adults: 100 - 210 U/L at 37°C
- Higher concentrations are observed in children and infants

(a) The performance of this method (y) was compared with the performance of a similar LDH method (x).

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Ordering information

	Configuration	Catalog Number
LACTATE DEHYDROGENASE-SL	R1 3 X 100mL R2 1 X 75mL	327-30
DC-CAL Calibrator	5 x 3mL	SE-035
DC-TROL Level 1	10 x 5mL	SM-052
DC-TROL Level 2	10 x 5mL	SM-056

- (1) International Federation of Clinical Chemistry, Approved Recommendation on IFCC Methods for the Measurement of Catalytic Concentration of Enzymes. Part 8. IFCC Method for Lactate Dehydrogenase. Eur. J. Clin. Chem. Clin. Biochem. 32, 639-655 (1994).
 (2) Burtis, C.A. and Ashwood, E.R. (Eds). Tietz Textbook of Clinical Chemistry, 2nd ed., W.B. Saunders Co., Philadelphia (1994).

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