

# Lactate Dehydrogenase (LDH)

## History

DCL's LDH uses the Wacker method in accordance with recommendations set forth by the International Federation of Clinical Chemists (IFCC). NADH is produced as the lactate is converted into pyruvate. The increase in NADH is proportional to the level of LDH present.

## Convenience

DCL provides the flexibility to use the reagent as a dual vial, stable liquid or as a lyophilized powder. The stable liquid eliminates the necessity of reconstitution, reducing error and wasted technician time while the lyophilized powder provides the convenience of a single vial.

## Performance

### Stable Liquid

- Linear from 4 to 2000 U/L
- 97% performance in recovery studies
- Linear Regression = 1.01 (reference method) – 4.8 U/L
- Correlation coefficient of 0.9998

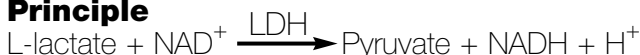
### Lyophilized Powder

- Linear to 500 U/L
- Linear Regression = 0.99 (reference method) + 1.69 U/L
- Correlation coefficient of 0.9937

## Precision of Assay

Product	Stable Liquid		Lyophilized Powder	
Sample Mean (U/L)	173	433	121	397
Total Samples (N)	80	80	20	20
Total SD (U/L)	2.3	6.0	3.7	9.7
Total CV (%)	1.3	1.4	3.1	2.4
Within-Run Samples (N)	20	20	30	30
Within-Run Mean (U/L)	174	441	119	392
Within-Run SD (U/L)	1.6	3.3	1.5	4.9
Within-Run CV (%)	0.9	0.8	1.3	1.3

## Principle



## LDH-SL

Dual vial, stable liquid, ready-to-use formulation, 18 month shelf life at 2-8°C

Cat. No. 327-10 Lactate  $\rightarrow$  Pyruvate, Kinetic, 340 nm 1 x 100 mL + 1 x 25 mL

Cat. No. 327-30 Lactate  $\rightarrow$  Pyruvate, Kinetic, 340 nm 3 x 100 mL + 1 x 75 mL

## LDH

Single vial, lyophilized formulation, 36 month shelf life at 2-8°C

Cat. No. 320-68 Lactate  $\rightarrow$  Pyruvate, Kinetic, 340 nm 20 x 10 mL

Cat. No. 320-69 Lactate  $\rightarrow$  Pyruvate, Kinetic, 340 nm 20 x 20 mL

## Associated Products

Cat. No. SE-035 DC-Cal Calibrator 5 x 3 mL

Cat. No. SM-052 DC-Trol Level 1 Control (Normal) 10 x 5 mL

Cat. No. SM-056 DC-Trol Level 2 Control (Abnormal) 10 x 5 mL

327.1S  
2/6/02



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