
Lab Dept: Chemistry

Test Name: LACTATE DEHYDROGENASE (LD)

General Information

Lab Order Codes: LDH

Synonyms: LDH; LD

CPT Codes: 83615 – Lactate Dehydrogenase

Test Includes: Lactate dehydrogenase concentration reported in U/L.

Logistics

Test Indications: Lactate dehydrogenase is an enzyme that is found in almost all body tissues. LD is used as a general marker of injury to cells. LD is used to diagnose myocardial infarction, hepatic congestion, severe shock, renal disease, progressive muscular dystrophy, and pulmonary embolism.

Lab Testing Sections: Chemistry

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 2 hours

Special Instructions: N/A

Specimen

Specimen Type: Blood

Container: Green top (Li Heparin) tube, **preferred**
Alternate: Red, marble or gold top tube

Draw Volume: 0.6 mL blood

Processed Volume: 0.2 mL serum/plasma

Collection: Routine blood collection. Mix tubes containing anticoagulant by gentle inversion.

Special Processing: Lab Staff: Centrifuge specimen, remove serum/plasma aliquot into a plastic sample cup. Store at refrigerated temperatures.

Patient Preparation: None

Sample Rejection: Mislabeled or unlabeled specimen; specimens other than heparinized plasma or serum

Interpretive

Reference Range:	Age	Range (U/L)
	0 - 1 day:	356 - 2236 U/L
	1 day - 6 weeks:	238 - 1242 U/L
	6 weeks - 18 months:	250 - 568 U/L
	18 months - 3 years:	299 - 484 U/L
	3 - 8 years:	229 - 457 U/L
	8 - 11 years:	224 - 390 U/L
	11 - 14 years:	173 - 379 U/L
	14 - 16 years:	155 - 335 U/L
	>16 years:	119 - 248 U/L

Critical Values: N/A

Limitations: LD concentrations are increased by excess hemolysis.

Methodology: Enzymatic, 37° C

References: LDI Flex® reagent cartridge insert sheet PN 717054.001 (Issue Date 2009-08-17) Rev. B

Clinical Significance, Dade Behring Inc., Glasgow Business Community, Mailbox 531, P.O. Box 6101, Newark, Delaware 19714

Jacobs & DeMott Laboratory Test Handbook (2001) Lexi-Comp, Inc, Hudson, OH, 5th Edition

Biorad Liquichek Unassayed Chemistry Control Product Insert (10/2005) Bio-Rad Laboratories, Irvine, CA 92618

Updates:

2/8/2016: Update alt tube types