
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)
	Male/Female	
	0 - <15 days	309 - 1222 U/L
	15 days - <1 year:	163 - 452 U/L
	1 year - <10 years:	192 - 321 U/L
	Female	
	10 - <15 years:	157 - 272 U/L
	15 - <19 years:	130 - 250 U/L
	Male	
	10 - <15 years:	170 - 283 U/L
	15 - <19 years:	130 - 250 U/L
	Adult Male/Female	
	Adults:	125 – 220 U/L

Critical Values: N/A

Limitations: LD concentrations are increased by excess hemolysis.

Methodology: IFCC-recommended forward reaction: Lactate to Pyruvate

References: Abbott Alinity c Lactate Dehydrogenase Reagent Kit Instructions for Use, Abbott Diagnostics Division, Abbott Park, IL 60064, USA, Revised February 2018

Bio-Rad Liquichek Multiqual 1,2,3, Unassayed Control Package Insert,
Bio-Rad Laboratories, Irvine, CA, USA

CALIPER Reference Range Studies, Accessed October 27, 2020

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

11/23/2020: Updated for Method Abbott, Siemens Vista removed.