

Patient Name : Demo Patient Name
Age / Sex : 16 Y / M
Referred By : DEMO HOSPITAL
Centre : HOD Head Office

Lab No : Demo Visit No
Registration On : 21-Jan-25 14:41
Patient ID : UHID.DEMO.001

Lactate Dehydrogenase (LDH)

Serum Sample

Accession No: DEMO_BARCODE **Collected On:** 21-Jan-25 14:41 **Received On:** 21-Jan-25 17:05 **Approved On:** 21-Jan-25 19:00

Observation	Result	Unit	Biological Ref. Interval	Method
Lactate Dehydrogenase	464	U/L	120 - 246	Pyruvate to Lactate Kinetic method

Sample Type: Serum

Technology: Dry Chemistry (VITROS MicroSlide, MicroSensor & IntelliCheck Technology)

Analyzer: Fully Automated VITROS 5600 Analyzer

Clinical Significance:

* Lactate dehydrogenase (LDH) activity is present in all cells of the body with highest concentrations in heart, liver, muscle, kidney, lung, and erythrocytes. Serum LDH is elevated in a number of clinical conditions like megaloblastic anemia, untreated pernicious anemia, Hodgkin's disease, abdominal and lung cancers, severe shock, and hypoxia.

* Moderate to slight increases in LDH levels are seen in myocardial infarction (MI), pulmonary infarction, pulmonary embolism, leukemia, hemolytic anemia, infectious mononucleosis, progressive muscular dystrophy (especially in the early and middle stages of the disease), liver disease, and renal disease.

* In liver disease, elevations of LDH are not as great as the increases in aspartate amino transferase (AST) and alanine aminotransferase (ALT).

* Increased levels of the enzyme are found in about one third of patients with renal disease, especially those with tubular necrosis or pyelonephritis. However, these elevations do not correlate well with proteinuria or other parameters of renal disease. On occasion a raised LDH level may be the only evidence to suggest the presence of a hidden pulmonary embolus.

Cautions:

* Red blood cells contain much more lactate dehydrogenase (LDH) than serum. A hemolyzed specimen is not acceptable. LDH activity is 1 of the most sensitive indicators of in vitro hemolysis. Causes can include transportation via pneumatic tube, vigorous mixing, or traumatic venipuncture.

* While increases in serum LDH also are seen following a myocardial infarction, the test has been replaced by the determination of troponin.

Remarks: Please correlate results with clinical conditions.



This is a Demo Signature
and the doctor's signature should appear here

In case of any unexpected or alarming results, please contact us immediately for re-confirmation, clarifications, and rectifications, if needed.

