

Lactate Dehydrogenase Active Protein | LAD active protein

Lactate Dehydrogenase (LDH), Bovine Heart

CATALOG #
AAA44807

PRODUCT SYNONYMS

Lactate Dehydrogenase; Lactate Dehydrogenase (LDH); Bovine Heart; LD; L-LDH; (S)-Lactate; LDH; Bovine - Lyophilized; LAD active protein

PRODUCT SPECIFICATIONS

Purity/Purification	Purified
Form/Format	Lyophilized from 50 mM sodium phosphate, pH 7.4 Appearance: White to off-white powder
Sequence Length	331
Source	Bovine Heart
EC Number	1.1.1.27
Unit Definition	One unit will catalyze the oxidation of one micromole of L-lactate to pyruvate with simultaneous reduction of NAD ⁺ to NADH per minute at 37°C and pH 9.4.
Specific Activity	240 U/mg protein (Coomassie)
Solubility	Clear, colorless to tan solution with possible fine particulates
Reconstitution	Clear and colorless in 10 mg/mL saline
Recertification	3 years
Protein	5.4 U/vial (Coomassie)
Contaminants	AST/GOT: ≤0.6%, ALT/GPT: ≤0.07%, Pyruvate Kinase: Typically ≤0.1%, Ammonia: ≤0.1 micromole/mg
CAS Number	9001-60-9
Activity	1270 U/vial (Dimensionl (R) Clinical Chemistry System)
Preparation and Storage	At -20 degree C Storage Note: Protect from moisture

ADDITIONAL INFORMATION

Related Product Information for LAD active protein	AAA Biotech produces bovine heart Lactate Dehydrogenase (LDH) for medical research, life science and manufacturing uses. Custom preparations, technical support, bulk quantities and aliquoting available. Our Lactate Dehydrogenase is used in multi-analyte clinical chemistry controls and calibrators by major IVD manufacturers worldwide. Lactate dehydrogenase is an enzyme present in a wide variety of organisms, including plants and animals. Determination of serum lactate dehydrogenase activity is one of the most frequently performed assays as an aid in the identification of myocardial and pulmonary infarction. Other conditions, such as megaloblastic anemia, extensive carcinomatosis, severe shock and hypoxia, granulocytic or acute anemia, hemolytic anemia, infectious mononucleosis, pregressive muscular dystrophy, hepatitis, cirrhosis, obstructive jaundice, and in delirium tremens are all caused increased activity of lactate dehydrogenase activity LDH is also found in cerebrospinal fluid where high levels of lactate dehydrogenase in cerebrospinal fluid are often associated with bacterial meningitis. High levels can also be found in cases of viral meningitis, generally indicating the presence of encephalitis and poor prognosis.
Product Categories/Family for LAD active protein	Proteins ; Antigens ; Enzymes ; Standards/controls ; Native Proteins ; Lactate Dehydrogenase (ldh)

NCBI AND UNIPROT INFORMATION

NCBI GI #	156255210
NCBI GeneID	100124423
NCBI Accession #	NP_001095933.1
NCBI GenBank Nucleotide #	NM_001102463.1
Molecular Weight	~136,700
NCBI Official Full Name	lactate dehydrogenase
NCBI Official Symbol	Ldh
NCBI Protein Information	lactate dehydrogenase

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/lad-active-protein/lactate-dehydrogenase/44807>