

Rat Lactate Dehydrogenase (LDH) ELISA Kit | LDH elisa kit

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CATALOG #
AAA20340

REACTIVITY
Rat

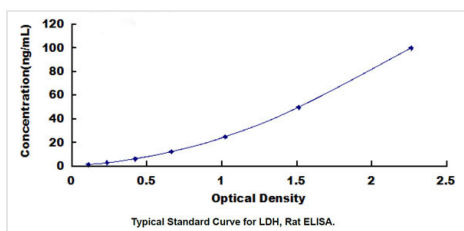
PRODUCT SYNONYMS

Lactate Dehydrogenase (LDH); Rat Lactate Dehydrogenase (LDH) ELISA Kit; LDH elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of LDH. No significant cross-reactivity or interference between LDH and analogues was observed.
Sequence Length	331
Assay Type	Quantitative Sandwich
Samples	Rat serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	1.56-100ng/mL
Sensitivity	< 0.72ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level LDH were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level LDH were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for LDH elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to LDH. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to LDH. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain LDH, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of LDH in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of LDH in rat serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
Product Categories/Family for LDH elisa kit	Enzyme & Kinase; Metabolic pathway; Tumor immunity; Infection immunity; Cardiovascular biology; Hepatology
References	Partial freezing of rat livers extends preservation time by 5-fold; Nat Commun; 2022 Jul 15;13(1):4008.; PMID: 35840553; Shannon N Tessier; Center for Engineering in Medicine and Surgery, Harvard Medical School and Massachusetts General Hospital, Boston, MA, USA.

NCBI AND UNIPROT INFORMATION

NCBI GI #	156255210
NCBI GeneID	100124423
NCBI Accession #	NP_001095933.1
NCBI GenBank Nucleotide #	NM_001102463.1
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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/rat-elisa-kits/lactate-dehydrogenase-ldh/20340>