



Human D-Lactate Dehydrogenase,D-LDH ELISA Kit

Product Code	CSB-E11720h
Abbreviation	LDHD
Target Name	lactate dehydrogenase D
Uniprot No.	Q86WU2
Alias	MGC57726, D-lactate dehydrogenase
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, tissue homogenates
Detection Range	31.25 mIU/mL-2000 mIU/mL
Sensitivity	7.8 mIU/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Metabolism
Gene Names	LDHD
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human LDHD ELISA Kit was designed for the quantitative measurement of Human LDHD protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 31.25 mIU/mL-2000 mIU/mL and the sensitivity is 7.8 mIU/mL.
Target Details	This protein belongs to the D-isomer specific 2-hydroxyacid dehydrogenase family. The similar protein in yeast has both D-lactate and D-glycerate dehydrogenase activities. Alternative splicing occurs at this locus and two transcript variants encoding distinct isoforms have been identified.
Product Precision	<p>Intra-assay Precision (Precision within an assay): CV%<8%</p> <p>Three samples of known concentration were tested twenty times on one plate to assess.</p> <p>Inter-assay Precision (Precision between assays): CV%<10%</p> <p>Three samples of known concentration were tested in twenty assays to assess.</p>



Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of human D-LDH in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

	Sample	Serum(n=4)
1:1	Average %	94
	Range %	87-103
1:2	Average %	91
	Range %	86-103
1:4	Average %	94
	Range %	86-105
1:8	Average %	91
	Range %	84-100

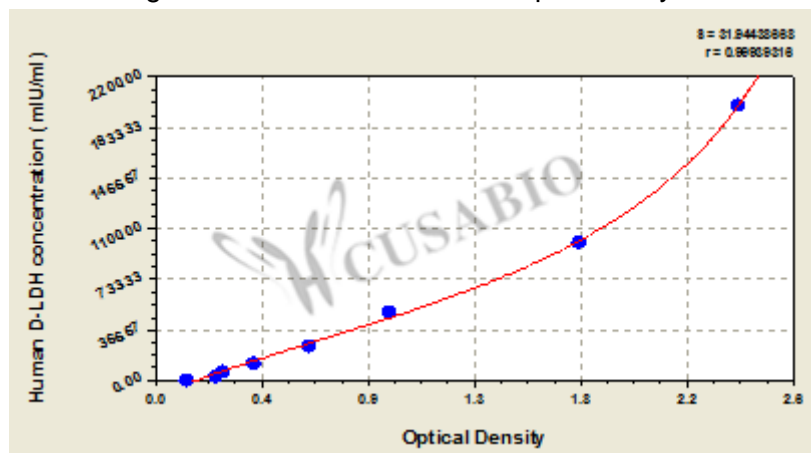
Recovery

The recovery of human D-LDH spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	97	91-106
EDTA plasma (n=4)	96	86-106

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



mIU/ml	OD1	OD2	Average	Corrected
2000	2.418	2.385	2.402	2.265
1000	1.773	1.728	1.751	1.614
500	0.936	1.002	0.969	0.832
250	0.624	0.651	0.638	0.501
125	0.407	0.422	0.415	0.278
62.5	0.282	0.287	0.285	0.148
31.25	0.253	0.264	0.259	0.122
0	0.135	0.139	0.137	

Msds

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