

## Recombinant Chicken Lactate Dehydrogenase B

Cat. No. LDHB-82C Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant chicken LDH-B produced in <i>E. Coli</i> s cloned from cDNA library of chicken heart.
<b>Species</b>	Chicken
<b>Source</b>	E.coli
<b>Description</b>	Lactate dehydrogenase (LDH) is an enzyme (EC 1.1.1.27) present in a wide variety of organisms, including plants and animals. A tetrameric enzyme that catalyses the interconversion of pyruvate and lactate with concomitant interconversion of NADH and NAD <sup>+</sup> . At high concentrations of pyruvate, the enzyme exhibits feedback inhibition and the rate of conversion of pyruvate to lactate is decreased. In vertebrates, genes for three different subunits (LDH-A, LDH-B and LDH-C) exist.
<b>Physical Appearance</b>	Sterile lyophilized powder.
<b>Purity</b>	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC (b) Analysis by SDS-PAGE.
<b>Formulation</b>	The protein (1 mg/ml) was lyophilized with 0.1mg potassium phosphate.
<b>Biological Activity</b>	The specific activity was found to be 200 IU/mg.
<b>Unit Definition</b>	One unit is defined as 1 μmol of NAD <sup>+</sup> production per minute under the assay conditions (25°C, pH 7.0). Both transaminase activities include α-hydroxyglutarate

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dehydrogenase activity.

**Stability**

Lyophilized Lactate Dehydrogenase although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution LDH should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

## GENE INFORMATION

<b>Gene Name</b>	LDHB lactate dehydrogenase B [ Gallus gallus ]
<b>Synonyms</b>	LDHB; lactate dehydrogenase B; L-lactate dehydrogenase B; EC 1.1.1.27
<b>Gene ID</b>	373997
<b>mRNA Refseq</b>	NM_204177
<b>Protein Refseq</b>	NP_989508
<b>UniProt ID</b>	P00337
<b>Chromosome Location</b>	1
<b>Pathway</b>	Cysteine and methionine metabolism; Glycolysis/Gluconeogenesis; Metabolic pathways; Propanoate metabolism; Pyruvate metabolism
<b>Function</b>	L-lactate dehydrogenase activity; binding; oxidoreductase activity

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