

Recombinant Chicken Lactate Dehydrogenase B

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

SPECIFICATION

Product Overview	Recombinant chicken LDH-B produced in <i>E. Coli</i> is cloned from cDNA library of chicken heart.
Species	Chicken
Source	E.coli
Description	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 ⁺ . 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.
Physical Appearance	Sterile lyophilized powder.
Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC (b) Analysis by SDS-PAGE.
Formulation	The protein (1 mg/ml) was lyophilized with 0.1mg potassium phosphate.
Biological Activity	The specific activity was found to be 200 IU/mg.
Unit Definition	One unit is defined as 1 μmol of NAD ⁺ 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

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

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