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**Product Data Sheet**


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Product Name: LDHB Mouse

Cat. No.: GP21878

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	L-lactate dehydrogenase B chain; LDH-B; LDH heart subunit; LDH-H; Ldh-2; Ldh2; Ldhb.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMATLKEK LIASVADDEA AVPNNKITVV GVGQVGMACA ISILGKSLAD ELALVDVLED KLGEMMDLQ HGSLFLQTPK IVADKDYSVT ANSKIVVTA GVRQQEGESR LNLVQRNVNV FKFIIPQIVK YSPDCTIIVV SNPVDILTYV TWKLSGLPKH RVIGSGCNLD SARFRYLMAE KLGHPSSCH GWILGEHGDS SVAVWSGVNV AGVSLQELNP EMGTDNDSEN WKEVHKMVVD SAYEVIKLG YTNWAIGLSV ADLIESMLKN LSRIHPVSTM VKGMYGIENE VFLSLPCILN ARGLTSVINQ KLDDEVAQL RKSADTLWDI QKDLKDL.		
Formulation	LDHB protein solution (1mg/ml) containing 20mM Tris-HCl (pH8.0), 1mM DTT and 10% glycerol.		

**Introduction**

Lactate dehydrogenase (LDH) is an enzyme (EC1.1.1.27) 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.

**Biological Activity**

Specific activity is > 150 units/mg, in which one unit will 1.0 umole of pyruvate to L-lactate and beta-NAD per minute at pH 7.5.

**Stability**

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage, it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

LDHB Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 357 amino acids (1-334 a.a) and having a molecular mass of 39kDa. LDHB is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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