

## LDHA

### Native Human Lactate Dehydrogenase Isoenzyme 1

<b>Catalog No.</b>	CSI14802A	<b>Quantity:</b>	100 U
	CSI14802B		1 KU

**Alternate Names:** LDH1, LDH-M, GSD11, Proliferation-Inducing Gene 19, PIG19, 4H isoenzyme

**Description:** Lactate Dehydrogenase (LDH) catalyses the interconversion of pyruvate and lactate with concomitant interconversion of NADH and NAD<sup>+</sup>. It converts pyruvate, the final product of glycolysis to lactate when oxygen is absent or in short supply, and it performs the reverse reaction during the Cori Cycle in the liver. At high concentrations of lactate, the enzyme exhibits feedback inhibition and the rate of conversion of pyruvate to lactate is decreased.

There are five isoenzymes: LDH1 (heart), LDH2 (reticuloendothelial system), LDH3 (lung), LDH4 (kidneys), and LDH5 (liver and striated muscles).

**Gene ID:** 3939

**Source:** Human Heart

**Formulation:** Ammonium Sulfate Suspension

**Purity:** >98% LDH1 by Iron Assay

**Specific Activity:** Typically >200 U/mL @ 37°C

**Unit Definition:** One unit will catalyze the transformation of one micromole of L-lactate to pyruvate per minute at 37°C and pH 8.55.

**Storage & Stability:** Store at 2-4°C. 1 year.

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.



**Cell Sciences**<sup>®</sup>  
480 Neponset Street  
Bldg 12A  
Canton, MA 02021

Toll Free: 888-769-1246  
Phone: 781-828-0610  
Fax: 781-828-0542

E-mail: [info@cellsciences.com](mailto:info@cellsciences.com)  
Website: [www.cellsciences.com](http://www.cellsciences.com)