

LDHA

Native Human Lactate Dehydrogenase Isoenzyme 1

Catalog No.	CSI14802A	Quantity:	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⁺. 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.

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