

## LDH5

### Native Human Lactate Dehydrogenase Isoenzyme 5

<b>Catalog No.</b>	CSI14808A	<b>Quantity:</b>	100 U
	CSI14808B		500 U

**Alternate Names:** LDH5, 4M 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).

**Source:** Human Liver

**Formulation:** Ammonia Sulfate Suspension

**Purity:** >98% LDH5 by Iron Assay

**Specific Activity:** Typically >50 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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