

# LACTATE DEHYDROGENASE

<b>EC Number</b>	1.1.1.27
<b>Systematic Name</b>	[S]-Lactate: NAD <sup>+</sup> oxidoreductase
<b>Alternative Names</b>	L-Lactate dehydrogenase; Lactic acid dehydrogenase
<b>Assay Principle</b>	Pyruvate + NADH + H <sup>+</sup> $\xrightarrow{\text{LDH}}$ L-Lactate + NAD <sup>+</sup>
<b>Unit Definition</b>	That amount of enzyme causing the oxidation of one micromole of NADH per minute at 25C and pH 7.4

## How can Lactate Dehydrogenase be used?

Lactate Dehydrogenase (LDH) is found in almost all living cells and is used by the body in the process of turning sugars into energy. LDH catalyses the conversion of lactate to pyruvate and back. In Clinical Chemistry Lactate Dehydrogenase has the following applications:

- + As an indicator enzyme with PK to measure reactions in which ADP, ATP or pyruvate are products
- + As an indicator enzyme in the measurement of serum GPT
- + As a serum control



## Key Benefits

### + SECURITY OF SUPPLY

BBI have direct relationships with suppliers to ensure continuity of supply

### + CONSISTENCY OF SUPPLY

BBI have been manufacturing both products for over 40 years

### + FLEXIBILITY

BBI have both liquid and freeze-dried formulations to suit your application

Order your evaluation sample today

<b>Storage</b>	LDHP2 - Store between +2°C and +8°C. LDHP2FS - Store desiccated at -15°C or below.
<b>Stability</b>	Stable for 2 years when stored in accordance with storage conditions.

## Product Analysis

An example of typical batch data

Code	LDHP2	LDHP2FS
<b>Batch</b>	482	483F
<b>Activity</b>	6860 U/ml 457 U/mg protein	261 U/mg material 300 U/mg protein
<b>Protein Concentration</b>	15 mg protein/ml	0.87 mg protein/mg material
<b>Contaminants</b>	GPT (P5P activated): 0.0163% MDH: 0.00499% PK: 0.00190%	GPT (P5P activated): 0.0169% MDH: 0.00518% PK: 0.0000715%

## ORDERING DETAILS - USE THE FOLLOWING CODES WHEN ORDERING

Product	Code	Description	Source	Applications
Lactate Dehydrogenase	LDHP2	>300 U/mg protein	Porcine Heart	Clinical Chemistry
	LDHP2FS	>250 U/mg protein	Porcine Heart	Clinical Chemistry

## Related Products

Name	Code	Activity
Malate Dehydrogenase	MDHP3	>1500 U/mg protein
	MDHP3F	>1500 U/mg protein
	MDHP3G	>1500 U/mg protein

Order a sample today [sales@bbisolutions.com](mailto:sales@bbisolutions.com)

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