

## Native Human Lactate Dehydrogenase 4

Cat. No. NATE-0965

Lot. No. (See product label)

### Introduction

#### Description

A lactate dehydrogenase (LDH or LD) is an enzyme found in nearly all living cells (animals, plants, and prokaryotes). LDH catalyzes the conversion of pyruvate to lactate and back, as it converts NADH to NAD<sup>+</sup> and back. A dehydrogenase is an enzyme that transfers a hydride from one molecule to another.

#### Applications

Diagnostic Controls, Calibrators & Standards; Clinical Chemistry; Testing/Assay Validation; Life Science; Validation Studies; Manufacturing

#### Synonyms

LDH-4 isoenzyme; 1H3M isoenzyme; Id4 isoenzyme

### Product Information

#### Species

Human

#### Source

Human Liver

#### Form

Liquid; Suspension in 3.1 M ammonium sulfate, 20 mM tris chloride, 1 mM DTT, 1 mM EDTA, pH 7.5.

#### EC Number

EC 1.1.1.27

#### CAS No.

9001-60-9

#### Activity

> 35 U/mg protein (> 110 U/mL)

#### Concentration

> 0.5 mg protein/ML

#### Contaminants

CPK: < 0.1% ALP: < 0.1% gGT: < 0.1% AST/SGOT: < 0.1% ALT/GPT: < 0.1%

#### Unit Definition

One unit will catalyze the oxidation of one micromole of L-lactate to pyruvate per minute at 37°C and pH 8.55.

### Storage and Shipping Information

#### Storage

2-8°C

#### Stability

2 years