

## Native Rabbit Lactate Dehydrogenase

Cat. No. DIA-268

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.

**Synonyms** Lactate dehydrogenase; EC 1.1.1.27; LDH; LD

### Product Information

**Species** Rabbit

**Source** Rabbit Muscle

**EC Number** EC 1.1.1.27

**CAS No.** 9001-60-9

**Molecular Weight** 140 kDa

**Activity** > 250 units per mg protein

**Composition** Lovell and Winzor (1974) report that the tetramer dissociates completely into two dimers (molecular weight 70,000) in acetate-chloride buffer pH 5 (conditions without effect on beef heart LDH). Phosphate and pyridine nucleotides stabilize the quaternary structure of the tetramer. Phosphate has an activation effect. See also Cho and Swainsgood (1973).

**Unit Definition** One Unit oxidizes one micromole of NADH per minute at 25°C, pH 7.3