

## Native *Leuconostoc mesenteroides* D-Lactic Dehydrogenase

Cat. No. NATE-0196

Lot. No. (See product label)

### Introduction

**Description** In enzymology, a D-lactate dehydrogenase is an enzyme that catalyzes the chemical reaction: (D)-lactate + 2 ferricytochrome c  $\rightleftharpoons$  pyruvate + 2 ferrocytochrome c. Thus, the two substrates of this enzyme are (D)-lactate and ferricytochrome c, whereas its two products are pyruvate and ferrocytochrome c. This enzyme belongs to the family of oxidoreductases, specifically those acting on the CH-OH group of donor with a cytochrome as acceptor. This enzyme participates in pyruvate metabolism. It employs one cofactor, FAD.

**Synonyms** EC 1.1.1.28; D-Lactic Dehydrogenase; 9028-36-8; (D)-lactate:ferricytochrome-c 2-oxidoreductase; lactic acid dehydrogenase; D-lactate (cytochrome) dehydrogenase; cytochrome-dependent D-(–)-lactate dehydrogenase; D-lactate-cytochrome c reductase; D-(–)-lactic cytochrome c reductase

### Product Information

**Source** *Leuconostoc mesenteroides*

**Form** ammonium sulfate suspension

**EC Number** EC 1.1.1.28

**CAS No.** 9028-36-8

**Activity** 1,000-3,000 units/mg protein (biuret)

**Buffer** Suspension in 3.2 M (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub>, 0.1 M potassium phosphate, pH 7.0

**Unit Definition** One unit will reduce 1.0  $\mu$ mole of pyruvate to D-lactate per min at pH 7.0 at 25°C.

### Storage and Shipping Information

**Stability** 2-8°C